SHORT-BEAKED COMMON DOLPHIN (*Delphinus delphis delphis*): Western North Atlantic Stock

STOCK DEFINITION AND GEOGRAPHIC RANGE

The common dolphin may be one of the most widely distributed species of cetaceans, as it is found world-wide in temperate and subtropical seas. In the North Atlantic, common dolphins occur over the continental shelf along the 100-2000-m isobaths and over prominent underwater topography and east as to the mid-Atlantic Ridge (29°W) (Doksæt et al. 2008; Waring et al. 2008). The species is less common south of Cape Hatteras, although schools have been reported as far south as the Georgia/South Carolina border (32°N) (Jefferson et al. 2009). In waters off the northeastern USA coast common dolphins are distributed along the continental slope and are associated with Gulf Stream features (CETAP 1982; Selzer and Payne 1988; Waring et al. 1992; Hamazaki 2002). They occur from Cape Hatteras northeast to Georges Bank (35° to 42°N) during mid-January to May (Hain et al. 1981; CETAP 1982; Payne et al. 1984). Common dolphins move onto Georges Bank and the Scotian Shelf from mid-summer to autumn. Selzer and Payne (1988) reported very large aggregations (greater than 3,000 animals) on Georges Bank in autumn. Common dolphins are occasionally found in the Gulf of Maine (Selzer and Payne 1988). Migration onto the Scotian Shelf and continental shelf off Newfoundland occurs during summer and autumn when water temperatures exceed 11°C (Sergeant et al. 1970; Gowans and Whitehead 1995).

Westgate (2005) tested the proposed one-population-stock model using a molecular analysis of mitochondrial DNA (mtDNA), as well as a morphometric analysis of cranial specimens. Both genetic analysis and skull morphometrics failed to provide evidence (p>0.05) of more than a single population in the western North Atlantic, supporting the proposed one stock model. However, when western and eastern North Atlantic common dolphin mtDNA and skull morphology were compared, both the cranial and mtDNA results showed evidence of restricted gene flow (p<0.05) indicating that these two areas are not panmictic. Cranial specimens from the two sides of the North Atlantic differed primarily in elements associated with the rostrum. These results suggest that common dolphins in the western North Atlantic are composed of a single panmictic group whereas gene flow between the western and eastern North Atlantic is limited (Westgate 2005; 2007).

There is also a peak in parturition during July and August with an average birth day of 28 July. Gestation lasts about 11.7 months and lactation lasts at least a year. Given these results western North Atlantic female common dolphins are likely on a 2-3 year calving interval. Females become sexually mature earlier (8.3 years and 200 cm) than males (9.5 years and 215 cm) as males continue to increase in size and mass. There is significant sexual dimorphism present with males being on average about 9% larger in body length (Westgate 2005; Westgate and Read 2007).

Figure 1. Distribution of common dolphin sightings from NEFSC and SEFSC shipboard and aerial surveys during the summers of 1998, 1999, 2002, 2004, 2006 and 2007. Isobaths are the 100-m, 1000-m and 4000-m depth contours.
**POPULATION SIZE**

The total number of common dolphins off the U.S. or Canadian Atlantic coast is unknown, although several abundance estimates are available from selected regions for selected time periods. The best abundance estimate for common dolphins is 120,743 animals (CV=0.23). This is the sum of the estimates from two 2004 U.S. Atlantic surveys, where the estimate from the northern U.S. Atlantic is 90,547 (CV=0.24), and from the southern U.S. Atlantic is 30,196 (CV=0.54). This joint estimate is considered best because these two surveys have the most complete coverage of the species’ habitat (Table 1).

An abundance estimate of 90,547 (CV=0.244) common dolphins was obtained from a line-transect sighting survey conducted during 12 June to 4 August 2004 by a ship and plane that surveyed 10,761 km of trackline in waters north of Maryland (38ºN) (Table 1; Palka 2006). Shipboard data were collected using the two-independent-team line-transect method and analyzed using the modified direct-duplicate method (Palka 1995) accounting for biases due to school size and other potential covariates, reactive movements (Palka and Hammond 2001), and g(0), the probability of detecting a group on the trackline. Aerial data were collected using the Hiby circle-back line-transect method (Hiby 1999) and analyzed accounting for g(0) and biases due to school size and other potential covariates (Palka 2005).

An abundance estimate of 30,196 (CV=0.537) common dolphins was derived from a shipboard survey of the U.S. Atlantic outer continental shelf and continental slope (water depths > 50 m) between Florida and Maryland (27.5 and 38º N latitude) conducted during June-August, 2004 (Table 1). The survey employed two independent visual teams searching with 25x bigeye binoculars. Survey effort was stratified to include increased effort along the continental shelf break and Gulf Stream front in the Mid-Atlantic. The survey included 5,659 km of trackline, and accomplished a total of 473 cetacean sightings. Sightings were most frequent in waters north of Cape Hatteras, North Carolina along the shelf break. Data were corrected for visibility bias (g(0)) and group-size bias and analyzed using line-transect distance analysis (Palka 1995; Buckland et al. 2001; Palka 2006).

An abundance estimate of 84,000 (CV=0.36) common dolphins was obtained from an aerial survey conducted in August 2006 which covered 10,676 km of trackline in the region from the 2000-m depth contour on the southern edge of Georges Bank to the upper Bay of Fundy and to the entrance of the Gulf of St. Lawrence (Table 1; Palka pers. comm.).

An abundance estimate of 53,625 (95% CI=35,179-81,773) common dolphins was generated from the Canadian Trans North Atlantic Sighting Survey (TNASS) in July-August 2007. This aerial survey covered area from northern Labrador to the Scotian Shelf, providing full coverage of the Atlantic Canadian coast. Estimates from this survey have not yet been corrected for availability and perception biases (Lawson and Gosselin 2009).

Please see appendix IV for a summary of abundance estimates, including earlier estimates and survey descriptions. As recommended in the GAMMS Workshop Report (Wade and Angliss 1997), if estimates are older than eight years PBR is undetermined.

<table>
<thead>
<tr>
<th>Month/Year</th>
<th>Area</th>
<th>N\textsubscript{best}</th>
<th>CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun-Aug 2004</td>
<td>Maryland to Bay of Fundy</td>
<td>90,547</td>
<td>0.24</td>
</tr>
<tr>
<td>Jun-Aug 2004</td>
<td>Florida to Maryland</td>
<td>30,196</td>
<td>0.54</td>
</tr>
<tr>
<td>Jun-Aug 2004</td>
<td>Florida to Bay of Fundy (COMBINED)</td>
<td>120,743</td>
<td>0.23</td>
</tr>
<tr>
<td>Aug 2006</td>
<td>S. Gulf of Maine to upper Bay of Fundy to Gulf of St. Lawrence</td>
<td>84,000</td>
<td>0.36</td>
</tr>
<tr>
<td>July-Aug 2007</td>
<td>N. Labrador to Scotian Shelf</td>
<td>53,625</td>
<td>0.22</td>
</tr>
</tbody>
</table>

**Minimum Population Estimate**

The minimum population estimate is the lower limit of the two-tailed 60% confidence interval of the log-normally distributed best abundance estimate. This is equivalent to the 20th percentile of the log-normal distribution.
as specified by Wade and Angliss (1997). The best estimate of abundance for common dolphins is 120,743 animals (CV=0.23) derived from the 2004 surveys. The minimum population estimate for the western North Atlantic common dolphin is 99,975.

Current Population Trend
A trend analysis has not been conducted for this species.

Current and Maximum Net Productivity Rates
Current and maximum net productivity rates are unknown for this stock. For purposes of this assessment, the maximum net productivity rate was assumed to be 0.04. This value is based on theoretical modeling showing that cetacean populations may not grow at rates much greater than 4% given the constraints of their reproductive life history (Barlow et al. 1995).

Potential Biological Removal
Potential Biological Removal (PBR) is the product of minimum population size, one-half the maximum productivity rate, and a “recovery” factor (MMPA Sec. 3. 16 U.S.C. 1362; Wade and Angliss 1997). The minimum population size is 99,975 animals. The maximum productivity rate is 0.04, the default value for cetaceans. The “recovery” factor is 0.5, the default value for stocks of unknown status relative to optimum sustainable population (OSP), and because the CV of the average mortality estimate is less than 0.3 (Wade and Angliss 1997). PBR for the western North Atlantic stock of common dolphin is 1,000.

Annual Human-Caused Mortality and Serious Injury
Total annual estimated average fishery-related mortality or serious injury to this stock during 2005-2009 was 164 (CV=0.12) common dolphins (Table 2).

Fishery Information
Detailed fishery information is reported in Appendix III.

Earlier Interactions
For more details on the historical fishery interactions prior to 1999 see Waring et al. (2007).

In the Atlantic pelagic longline fishery between 1990 and 2007, 20 common dolphins were observed hooked and released alive.

The estimated fishery-related mortality of common dolphins attributable to the Loligo squid portion of the Southern New England/Mid-Atlantic Squid, Mackerel, Butterfish Trawl fisheries was 0 between 1997-1998 and 49 in 1999 (CV=0.97). After 1999 this fishery is included as a component of the mid-Atlantic bottom trawl fishery.

In the Atlantic mackerel portion of the Southern New England/Mid-Atlantic Squid, Mackerel, Butterfish Trawl fisheries, the estimated fishery-related mortality was 161 (CV=0.49) animals in 1997 and 0 in 1998 and 1999. However, the estimates in both the mackerel and Loligo fisheries should be viewed with caution due to the extremely low (<1%) observer coverage. After 1999 this fishery is included as a component of the mid-Atlantic bottom trawl and mid-Atlantic mid-water trawl fisheries.

There was one observed take in the Southern New England/mid-Atlantic Bottom Trawl fishery reported in 1997. The estimated fishery-related mortality for common dolphins attributable to this fishery was 93 (CV=1.06) in 1997 and 0 in 1998 and 1999. After 1999 this fishery is included as a component of the mid-Atlantic bottom trawl fishery.

Northeast Sink Gillnet
In 1990, an observer program was started by NMFS to investigate marine mammal takes in the Northeast sink gillnet fishery (Appendix III). Bycatch in the northern Gulf of Maine occurs primarily from June to September, while in the southern Gulf of Maine, bycatch occurs from January to May and September to December. Four common dolphins were observed taken in northeast sink gillnet fisheries in 2005, one in 2006, one in 2007, two in 2008 and 3 in 2009. The estimated annual fishery-related mortality and serious injury attributable to the northeast sink gillnet fishery (CV in parentheses) was 0 in 1995, 63 in 1996 (1.39), 0 in 1997, 0 in 1998, 146 in 1999 (0.97), 0 in 2000-2004, 5 (0.80) in 2005, 20 (1.05) in 2006, 11 (0.94) in 2007, 34 (0.77) in 2008, and 43 (0.77) in 2009. The 2005-2009 average annual mortality attributed to the northeast sink gillnet was 26 animals (CV=0.39).

A study of the effects of two different hanging ratios in the bottom set monkfish gillnet fishery on the bycatch of cetaceans and pinnipeds was conducted by NEFSC in 2009 and 2010 with 100% observer coverage. Commercial
fishing vessels from Massachusetts and New Jersey were used for the study which took place south of the Harbor Porpoise Take Reduction Team Cape Cod South Management Area (south of 40° 40’) in February, March and April. Eight research strings of fourteen nets each were fished, and 159 hauls were completed during the course of the study. Results showed that while a 0.33 mesh performed better at catching commercially important finfish than a 0.50 mesh, there was no statistical difference in cetacean or pinniped bycatch rates between the two hanging ratios. One common dolphin was caught in this study during 2009 (Schnaittacher 2011).

**Mid-Atlantic Gillnet**

One common dolphin was taken in an observed trip during 2006. Two common dolphins were observed taken in 1995, 1996 and 1997, and no takes were observed from 1998 to 2005, or in 2007 - 2009. Using the observed takes, the estimated annual mortality (CV in parentheses) attributed to this fishery was 7.4 in 1995 (0.69), 43 in 1996 (0.79), 16 in 1997 (0.53), and 0 in 1998-2005, 11 (1.03) in 2006, 0 in 2007 - 2009. Average annual estimated fishery-related mortality attributable to this fishery during 2005-2009 was 2 (CV=1.03) common dolphins (Table 2).

**Northeast Bottom Trawl**

This fishery is active in New England waters in all seasons. One common dolphin was observed taken in 2002, 3 in 2004, 5 in 2005, 1 in 2006, 3 in 2007, 1 in 2008, and 5 in 2009 (Table 2). The estimated annual fishery-related mortality and serious injury attributable to the northeast bottom trawl fishery (CV in parentheses) was 27 in 2000 (0.29), 30 (0.30) in 2001, 26 (0.29) in 2002, 26 (0.29) in 2003, 26 (0.29) in 2004, 32 (0.28) in 2005, 25 in 2006, 24 (0.28) in 2007, 17 (0.29) in 2008, and 19 (0.30) in 2009. The 2005-2009 average annual mortality attributed to the northeast bottom trawl was 23 animals (CV=0.13).

**Mid-Atlantic Bottom Trawl**

Three common dolphins were observed taken in mid-Atlantic bottom trawl fisheries in 2000, 2 in 2001, 9 in 2004, 15 in 2005, 14 in 2006, 0 in 2007, 1 in 2008, and 12 in 2009 (Table 2). The estimated annual fishery-related mortality and serious injury attributable to the northeast bottom trawl fishery (CV in parentheses) was 93 in 2000 (0.26), 103 (0.27) in 2001, 87 (0.27) in 2002, 99 (0.28) in 2003, 159 (0.30) in 2004, 141 (0.29) in 2005, 131 (0.28) in 2006, 66 (0.27) in 2007, 108 (0.28) in 2008, and 104 (0.29) in 2009. The 2005-2009 average annual mortality attributed to the northeast bottom trawl was 110 animals (CV=0.13).

**Mid-Atlantic Mid-water Trawl Fishery (Including Pair Trawl)**

2007 was the first year a short-beaked common dolphin mortality had been observed in this fishery. This animal was taken in the same haul as an Atlantic white-sided dolphin. Due to small sample sizes, the bycatch rate model used the 2003 to September 2007 observed mid-water trawl data, including paired and single, and northeast and mid-Atlantic mid-water trawls (Palka, pers. com.). The model that best fit these data was a Poisson logistic regression model that included latitude and bottom depth as significant explanatory variables, where soak duration was the unit of effort. The resultant estimated annual fishery-related mortality and serious injury (CV in parentheses) was 3.2 (0.70) for 2007. The 2005-2009 average annual mortality attributed to the mid-Atlantic mid-water trawl was 1 (0.70) animal.

**Pelagic Longline**

In 2009 a common dolphin mortality was observed in the pelagic longline fishery, mid-Atlantic Bight fishing area (Garrison and Stokes 2010). The extrapolated estimate (CV in parentheses) for common dolphin bycatch attributed to this fishery was 8.5 (1.0) for 2009. The 2005-2009 average annual mortality was 1.7 (1.0).
<table>
<thead>
<tr>
<th>Fishery</th>
<th>Years</th>
<th>Data Type</th>
<th>Observer Coverage</th>
<th>Observed Serious Injury</th>
<th>Observed Mortality</th>
<th>Estimated Serious Injury</th>
<th>Estimated Mortality</th>
<th>Estimated Combined Mortality</th>
<th>Estimated CVs</th>
<th>Mean Annual Mortality</th>
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<tbody>
<tr>
<td>Northeast Sink Gillnet</td>
<td>05-09</td>
<td>Obs. Data, Trip Logbook, Allocated Dealer Data</td>
<td>.07, .04, .07, .05, .04</td>
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<td>4, 1, 1, 2, 3</td>
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<td>26, 20, 11, 34, 43</td>
<td>26, 20, 11, 34, 43</td>
<td>.8, 1.05, .94, .77, .77</td>
<td>26 (0.39)</td>
</tr>
<tr>
<td>Mid-Atlantic Gillnet</td>
<td>05-09</td>
<td>Obs. Data, Trip Logbook, Allocated Dealer Data</td>
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<td>Obs. Data</td>
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<td>05-09</td>
<td>Obs. Data Dealer Data VTR Data</td>
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<td>5, 1, 3, 1, 5</td>
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<td>32, 25, 24, 17, 19</td>
<td>32, 25, 24, 17, 19</td>
<td>.28, .28, .29, .30</td>
<td>23 (.13)</td>
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<tr>
<td>Mid-Atlantic Bottom Trawl</td>
<td>05-09</td>
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<td>141, 131, 66, 108, 104</td>
<td>141, 131, 66, 108, 104</td>
<td>.29, .28, .27, .28, .29</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>164 (.12)</td>
<td></td>
</tr>
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</table>
a. The fisheries listed in Table 2 reflect new definitions defined by the proposed List of Fisheries for 2005 (FR Vol. 69, No. 231, 2004). The 'North Atlantic bottom trawl' fishery is now referred to as the 'Northeast bottom trawl'. The Illex, Loligo and Mackerel fisheries are now part of the 'mid-Atlantic bottom trawl' and 'mid-Atlantic midwater trawl'.

b. Observer data (Obs. Data), used to measure bycatch rates, are collected within the Northeast Fisheries Observer Program. NEFSC collects landings data (Dealer reported data) which are used as a measure of total landings and mandatory Vessel Trip Reports (VTR) (Trip Logbook) that are used to determine the spatial distribution of landings and fishing effort.

c. The observer coverages for the Northeast sink gillnet fishery are ratios based on tons of fish landed. North Atlantic bottom trawl mid-Atlantic bottom trawl, and mid-Atlantic mid-water trawl fishery coverages are ratios based on trips.

d. NE and MA bottom trawl mortality estimates reported for 2007 are a product of GLM estimated bycatch rates (utilizing observer data collected from 2000 to 2005) and 2007 effort. NE and MA bottom trawl mortality estimates reported for 2008 are a product of GLM estimated bycatch rates (utilizing observer data collected from 2000 to 2005) and 2008 effort. NE and MA bottom trawl mortality estimates reported for 2009 are a product of GLM estimated bycatch rates (utilizing observer data collected from 2000 to 2005) and 2009 effort (Rossman 2010). Because of this pooling, years with no observed mortality may still have a calculated estimate.

e. One common dolphin was incidentally caught as part of a 2009 NEFSC hanging ratio study to examine the impact of gillnet hanging ratio on harbor porpoise bycatch. This animal was included in the observed interactions and added to the total estimates, though this interaction and its associated fishing effort were not included in bycatch rate calculations.

CANADA

Between January 1993 and December 1994, 36 Spanish deep water trawlers, covering 74 fishing trips (4,726 fishing days and 14,211 sets), were observed in NAFO Fishing Area 3 (off the Grand Banks) (Lens 1997). A total of 47 incidental catches were recorded, which included one common dolphin. The incidental mortality rate for common dolphins was 0.007/set.

Other Mortality

Two common dolphins were reported as incidental mortalities in NEFSC Atlantic herring monitoring activities in 2004. In 2007, one common dolphin was reported taken in a NEFSC spring bottom trawl survey.

From 2005 to 2009, 428 common dolphins were reported stranded between Maine and Florida (Table 3). The total includes mass stranded common dolphins in Massachusetts during 2005 (a total of 43 in 4 separate events), 2006 (a total of 65 in 10 events), 2007 (a total of 23 in 5 separate events), 2008 (one event of 5 animals and one of 2 animals) and 2009 (a total of 26 in 6 events). Five of the 2005 Massachusetts stranded animals, 18 animals in 2006, 2 animals in 2007, 2 animals in 2008 and 5 animals in 2009 were released alive. Human interactions were indicated on one of the 2005 and one of the 2007 New York mortality records and one of the 2006 Virginia mortality records. In 2008, seven common dolphins had indications of human interactions, four which were fishery interactions. In 2009, six common dolphins had indications of human interaction, 3 of which were classified as fishery interactions. An Unusual Mortality Event (UME) was declared in 2008 due to a relatively high number of strandings between January and April 2008, from New Jersey to North Carolina. Twenty seven common dolphins were involved in this event (http://www.nmfs.noaa.gov/pr/health/mmume/midatlantic2008.htm accessed 19 April 2011).

Four common dolphin strandings (6 individuals) were reported on Sable Island, Nova Scotia from 1996 to 1998 (Lucas and Hooker 1997; 2000). The Marine Animal Response Society of Nova Scotia reported one common dolphin stranded in 2008 and one in 2009 (Tonya Wimmer, pers. comm.).

Table 3. Short-beaked common dolphin (Delphinus delphis delphis) reported strandings along the U.S. Atlantic coast, 2005-2009.

<table>
<thead>
<tr>
<th>STATE</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>TOTALS</th>
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<tbody>
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<td>1</td>
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<tr>
<td>Massachusettsa</td>
<td>64</td>
<td>100</td>
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<td>19</td>
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<tr>
<td>New Jersey</td>
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<td>9</td>
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<tr>
<td>Delawarec</td>
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96
<table>
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<td><strong>North Carolina</strong></td>
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<td>1</td>
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<tr>
<td><strong>EZ</strong></td>
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<tr>
<td><strong>TOTALS</strong></td>
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<td>110</td>
<td>101</td>
<td>60</td>
<td>81</td>
<td>428</td>
</tr>
</tbody>
</table>

a. Massachusetts mass strandings (2005 - 7, 5, 25, and 4; 2006 - 2, 2, 3, 4, 3, 9, 10, 14, and 14; 2007 - 9, 2, 4, 6, 2; 2008 - 5 and 2; 2009 - 2, 3, 4, 6, 8).

b. One common dolphin was released alive from a pound net in 2006 in New York. Twenty (12 dead, 8 rescued; one of the mortalities classified as human interaction) animals involved in a mass stranding in Suffolk county in 2007. Seven animals involved in 2 mass stranding events in March 2009 (six euthanized, 1 died at site, 2 had signs of fishery interaction). In addition, in 2008 3 animals were relocated from the Nansemond River.

c. One 2005 mortality in New York reported as having human interaction and one in VA in 2006. Seven records with signs of human interaction in 2008 - 3 from Virginia, 1 from Massachusetts, one from North Carolina, and one from Delaware. Of these, 4 were fishery interactions. Six human interaction cases in 2009 (2 Massachusetts, 3 Rhode Island, 1 New York), 3 of which were classified as fishery interactions (2 in Rhode Island and one in Massachusetts).

Stranding data probably underestimate the extent of fishery-related mortality and serious injury because all of the marine mammals that die or are seriously injured may not wash ashore, nor will all of those that do wash ashore necessarily show signs of entanglement or other fishery-interaction. Finally, the level of technical expertise among stranding network personnel varies widely as does the ability to recognize signs of fishery interaction.

**STATUS OF STOCK**

The status of short-beaked common dolphins, relative to OSP, in the U.S. Atlantic EEZ is unknown. The species is not listed as threatened or endangered under the Endangered Species Act. There are insufficient data to determine the population trends for this species. The total U.S. fishery-related mortality and serious injury for this stock is not less than 10% of the calculated PBR and, therefore, cannot be considered to be insignificant and approaching zero mortality and serious injury rate. The 2005-2009 average annual human-related mortality does not exceed PBR; therefore, this is not a strategic stock.

**REFERENCES CITED**


