

# Oiled Marine Mammal

## Gross Necropsy Report

Form completed by: <u>M. McCallen</u> Date: <u>6/2/10</u>	
Enforcement Officer: <u>Florida Fish and Wildlife</u>	
Strand/Capture location: <u>Beacon Hill, Mexico Beach</u>	
Collectors Name: <u>Morgan McCallen</u>	
Intake date: <u>6/2/10</u>	Euthanasia <input type="checkbox"/>
Death date: <u>6/2/10</u> Time: <u>10:00</u>	<input type="checkbox"/> yes
Post mortem date: <u>6/2/10</u> Time: <u>9:00</u>	<input checked="" type="checkbox"/> no
Carcass Classification: Frozen <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	
<u>2- fresh</u> , 3-fair (organs intact), 4-poor, 5- mummified	
Photographs: <input checked="" type="checkbox"/>	
Radiographs: <input type="checkbox"/>	

Spill Name: <u>Deepwater Horizon</u>	
Animal Log # <u>L-0001</u>	
Level A Field # <u>GW2A0607A</u> Tag #	
Species: <u>Stenella longirostris</u>	
Sex: <u>Female</u>	Age: <u>Adult</u>
Weight: <u>63</u> kg (estimate/actual)	
SON: emaciated 1 2 3 <u>4</u> 5 6 7 obese	
Measurements:	Blubber depth <u>8.0</u> mm
SL <u>170</u> cm	AG <u>77.7</u> cm
UG <u>48.0</u> cm	XG <u>82.7</u> cm

Clinical signs/diagnosis	<u>Not applicable</u>
Antibiotics given	<u>NONE</u>
Pertinent lab results	

### GROSS NECROPSY ABNORMALITIES:

7:00pm Arrive NMFS laboratory, Dellwood Dr. Panama City, Florida. Discuss protocols and sampling procedures.

Dolphin is a female Stenella sp 190 cm in length body condition is good. No signs of visible oil on or in this dolphin. A healed cookie cutter shark bite below dorsal fin and lateral. Blubber measures 10mm mid way between blow hole and dorsal fin.

Left lateral approach remove body wall. Left (photo) ovary functional, larger than right, uterus is small (no recent delivery). Milk present in mammary gland, on lookers reported a calf was with this dolphin. Sampling as to protocol, adrenal glands appear enlarged, unable to get urine from contracted bladder. Parasite cyst in lower abdomen (photo). sampled kidneys, bladder, urethra, colon, jejunum, duodenum, etc.

Careful dissection to locate common bile duct used 6cc syringe/needle to collect bile in three locations along duct (total 1ml collected). Sampled liver, pancreas, spleen etc. Thorax opened - lung surface has colorful nodules probable parasitic granuloma/calcium. Small bronchi have lungworms present (photo). Sample lung, lymph nodes, aorta, heart trachea etc. On cut section lungs had patchy appearance probable pneumonia. Another Paralytic cyst on rib cage left side. Remove blubber and muscle from skull, used stryker saw to enter cranium. Remove whole brain. Small hemorrhagic lesion on surface of cerebrum (photo) cut section appears to go to deeper tissues. Made section of lesions for histology and saved piece in refrigerator for possible fungal culture. Sectional brain placed half in formalin and half in tin foil to be frozen. Save skull in bag for species identification. There were 46-48 teeth each side. Sectioned body and placed in bags properly marked.

Gross necropsy impression. Probable parasitic encephalitis (nasitrema?), moderate pneumonia. Incidental findings, parasitic encysted larvae, lungworms, evidence of nursing a calf.

HYDROCARBON ANALYSIS SAMPLES			MICROBIOLOGY		SWABS: other
bile	kidney	blubber/fat	Lung	<input checked="" type="checkbox"/> not sampled	
blood	muscle	other:	Liver	<input type="checkbox"/>	
urine	lung		other	<input type="checkbox"/>	
liver	intestine				

HISTOLOGY SAMPLES						LYMPH NODES:	
lung	thyroid	ileum	kidney	mammary gland	muscle	colonic	gastric
trachea	tonsil	colon	ureter	adrenal	gonad	sublumbar	hepatic
heart	tongue	pancreas	urinary bladder	skin	prostate	inguinal	mediastinal
aorta	esophagus	spleen	urethra	eye (L/R)	uterus	axillary	submandibular
pulmonary artery	stomach	liver	blubber	fat-site:	vagina	mesenteric	tracheobronchial
thymus	duodenum	gall bladder	bone marrow		cervix		
salivary gland	jejunum	brain	spinal cord	whole repro	penis		
other:							

Cause of death (preliminary diagnosis): <u>Open</u>		
Examiner: <u>F. Townsend</u>	Examiner's signature:	Date: <u>6/2/2010</u>

~~blood collected from post below skin/blubber layer~~  
~~collected prescapular LN~~

empty bladder

\* poss. tapeworm in @ ovary, tapeworm larvae

fairly large mesenteric LN

\* tapeworm/other para. on @ ribwall

lungworms present in smaller airways

\* possible pneumonia

\* lesion in lower left hemisphere of brain

lactating - small amount in mammary glands

♀ but separate genital and anal slit

Notes for  
GW2010007A  
Necropsy

L-0001

# Cetacean Necropsy Report

Animal ID: L-0001 GW2010007A  
Exam Date/Time: \_\_\_\_\_  
Location: \_\_\_\_\_  
Gender: Female  
Weight: \_\_\_\_\_  
Length: \_\_\_ cm Girth: \_\_\_ cm  
Species: \_\_\_\_\_  
Age: \_\_\_\_\_

## Medical History

### Necropsy Observations:

Please note general observations of color, texture, size, shapes, etc of any abnormalities that you noticed. If you did not observe anything unusual write NSF (No Significant Findings). If abnormalities were noted please place a check in the box for samples/photos that were taken. For parasites, give the number or estimated number.

### External Exam:

Nutritional state of the animal: \_\_\_\_\_

Any scars, lesions, discolorations, parasites: coarse-cutter bite, healed wound,  
left mid-lateral

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Teeth (note if there are any missing, cracked, or worn): \_\_\_\_\_

### Muscular/Skeletal System

Blubber: \_\_\_\_\_

Muscle: \_\_\_\_\_  
\_\_\_\_\_

Diaphragm: \_\_\_\_\_  
\_\_\_\_\_

Skeletal (any broken bones, pectoral fin joints): \_\_\_\_\_  
\_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

**Thoracic Cavity**

Lungs/Trachea: *long worms in smaller airways*  
*possible pneumonia*  
*tapeworm in @ rib wall*

length (cm): \_\_\_\_\_ Width (cm): \_\_\_\_\_ Height (cm): \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Lymph nodes: \_\_\_\_\_  
\_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Heart: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Weight (g): \_\_\_\_\_ LV wall (cm): \_\_\_\_\_ RV wall (cm): \_\_\_\_\_

- Sampled for Histology

- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Esophagus: \_\_\_\_\_

**Abdominal Cavity**

Liver (check bile ducts for parasites): \_\_\_\_\_

Weight (g): \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Stomach: \_\_\_\_\_

Weight (g): \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Spleen: \_\_\_\_\_

Weight (g): \_\_\_\_\_

Pancreas: \_\_\_\_\_

Weight (g): \_\_\_\_\_

- Sampled for Histology
- Frozen

- Parasites
- Photos
- Fungal
- Bacterial

Intestine: large mesenteric L. U.

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Colon: \_\_\_\_\_

Adrenals: \_\_\_\_\_

Weight (g): R. \_\_\_\_\_ L. \_\_\_\_\_

Kidneys: \_\_\_\_\_

Right length (cm): \_\_\_\_\_ Diameter (cm): \_\_\_\_\_ Weight (g): \_\_\_\_\_  
 Left length (cm): \_\_\_\_\_ Diameter (cm): \_\_\_\_\_ Weight (g): \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Urinary Bladder: empty

**Reproductive System**

Ovaries/Testes: possible @ ovary tapeworm larva

R. length (cm): \_\_\_\_\_ Width (cm): \_\_\_\_\_ Height (cm): \_\_\_\_\_ Weight (g): \_\_\_\_\_  
 L. length (cm): \_\_\_\_\_ Width (cm): \_\_\_\_\_ Height (cm): \_\_\_\_\_ Weight (g): \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos

- Fungal
- Bacterial

Uterus: \_\_\_\_\_

Pregnant? (male/female): lactating

length (cm): \_\_\_\_\_

**Head**

Eyes: \_\_\_\_\_

Tongue: \_\_\_\_\_

Pharynx/ Larynx: \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Ears: \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial

Brain: lesion in caudal @ hemisphere

Weight (g): \_\_\_\_\_

- Sampled for Histology
- Frozen
- Parasites
- Photos
- Fungal
- Bacterial





### Cetacean Data Record

Field Number: GW2010007A  
 Date/Time Stranded: 2 June 10  
 Date/Time of Data: 2 June 10/17:55  
 Recorder: C. Burrell

Species: Spinner Dolphin  
 Condition Code: 2  
 Gender: Female  
 Examiner(s): M. McCallen, F. Townsend

1. Tooth/Baleen Counts: L. upper 46 R. upper 46  
 L. lower 43 R. lower 48
2. Teeth/baleen condition (circle one): good cracked worn missing  
 If missing, which ones? \_\_\_\_\_
3. Diameter of largest tooth/length of longest baleen plate: \_\_\_\_\_ cm/ inches
4. Color of baleen: N/A
5. Number of throat/ventral grooves: N/A

**Body Measurements (unit of measurement: cm)**

- |  |   |
|--|---|
| 6. Snout to fluke notch: <u>190</u>                    | 26. Pectoral fin max. width: <u>8.6</u>                 |
| 7. Snout to tip of dorsal fin: <u>108</u>              | 27. Width of flukes: <u>39.5</u>                        |
| 8. Length of dorsal fin base: <u>26.1</u>              | 28. Length of flukes: <u>11.7</u>                       |
| 9. Height of dorsal fin: <u>16.2</u>                   | 29. Depth of fluke notch: <u>2.0</u>                    |
| 10. Snout to center of blowhole(s): <u>29.8</u>        | 30. Snout to umbilicus: <u>91.5</u>                     |
| 11. Blowhole length: <u>1.4</u>                        | 31. Snout to genital slit: <u>132.8</u>                 |
| 12. Blowhole width: <u>2.8</u>                         | 32. Snout to anus: <u>138.8</u>                         |
| 13. Snout to apex of melon: <u>16.5</u>                | 33. Length of genital slit: <u>11.2</u>                 |
| 14. Projection of lower jaw: <u>0.2</u>                | 34. Length of anal slit: <u>0.8</u>                     |
| 15. Length of gape: <u>29.3</u>                        | 35. Mammary slits right: <u>3.0</u> left: <u>2.9</u>    |
| 16. Snout to center of eye: <u>32.4</u>                | 36. Snout to end of ventral grooves: <u>N/A</u>         |
| 17. Eye height: <u>1.0</u> length: <u>2.4</u>          | 37. Length of throat grooves: <u>N/A</u>                |
| 18. Eye to blowhole: <u>14.6</u>                       | 38. Girth at eye: <u>53.2</u>                           |
| 19. Eye to angle of mouth: <u>4.7</u>                  | 39. Girth at axilla: <u>77.7</u>                        |
| 20. Eye to ear: <u>4.9</u>                             | 40. Maximum girth: <u>82.7</u>                          |
| 21. Snout to ear: <u>36.8</u>                          | 41. Girth at anus: <u>48.6</u>                          |
| 22. Diameter of ear right: <u>N/A</u> left: <u>N/A</u> | 42. Girth at a. <u>28.4</u> before notch b. <u>29.4</u> |
| 23. Snout to pectoral fin: <u>45.7</u>                 | 43. Blubber thickness, mid-dorsal: <u>0.9 cm</u>        |
| 24. Pectoral fin anterior length: <u>26.7</u>          | 44. Blubber thickness, mid-lateral: <u>0.8 cm</u>       |
| 25. Pectoral fin posterior length: <u>20.3</u>         | 45. Blubber thickness, mid-ventral: <u>0.8 cm</u>       |
| * 46. Fluke notch to anus: <u>N/A</u>                  |   |

Notes or other measurements taken: \_\_\_\_\_

Teeth

missing: left lower 35, 36, 40, 41, 42, 43, 44  
 cracked: right lower 19, 20, 24, 25, 26

Cetacean Data Record

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Date/Time of Data: 2 June 10 17:55  
Recorder: \_\_\_\_\_

Species: Spinner Dolphin  
Condition Code: 2  
Gender: Female  
Examiner(s): M. McCallen, F. Townsend

- 1. Tooth/Baleen Counts: L. upper 46 R. upper 46  
L. lower 43 R. lower 48
- 2. Teeth/baleen condition (circle one): good cracked worn missing  
If missing, which ones? Cracked: R lower: 19, 20, 24, 25, 26
- 3. Diameter of largest tooth/length of longest baleen plate: \_\_\_\_\_ cm/ inches
- 4. Color of baleen: na
- 5. Number of throat/ventral grooves: na

Body Measurements (unit of measurement: cm)

- 6. Snout to fluke notch: 19.0
- 7. Snout to tip of dorsal fin: 108
- 8. Length of dorsal fin base: 26.1
- 9. Height of dorsal fin: 16.2
- 10. Snout to center of blowhole(s): 29.8
- 11. Blowhole length: 1.4
- 12. Blowhole width: 2.8
- 13. Snout to apex of melon: 16.5
- 14. Projection of lower jaw: 0.2
- 15. Length of gape: 29.3
- 16. Snout to center of eye: 32.4
- 17. Eye height: 1.0 length: 2.4
- 18. Eye to blowhole: 14.6
- 19. Eye to angle of mouth: 4.7
- 20. Eye to ear: 4.9
- 21. Snout to ear: 30.8
- 22. Diameter of ear right: \_\_\_\_\_ left: \_\_\_\_\_
- 23. Snout to pectoral fin: 45.7
- 24. Pectoral fin anterior length: 26.7
- 25. Pectoral fin posterior length: 20.3
- \* 46. Fluke notch to anus: \_\_\_\_\_
- 26. Pectoral fin max. width: 8.6
- 27. Width of flukes: 39.5
- 28. Length of flukes: 11.7
- 29. Depth of fluke notch: 2.0
- 30. Snout to umbilicus: 91.5
- 31. Snout to genital slit: 132.8
- 32. Snout to anus: 138.8
- 33. Length of genital slit: 11.2
- 34. Length of anal slit: 0.8
- 35. Mammary slits right: 3.0 left: 2.9
- 36. Snout to end of ventral grooves: \_\_\_\_\_
- 37. Length of throat grooves: \_\_\_\_\_
- 38. Girth at eye: 53.2
- 39. Girth at axilla: 77.7
- 40. Maximum girth: 82.7
- 41. Girth at anus: 48.6
- 42. Girth at a. 28.4 before notch b. 29.4
- 43. Blubber thickness, mid-dorsal: 9.0mm
- 44. Blubber thickness, mid-lateral: 8.0mm
- 45. Blubber thickness, mid-ventral: 8.0mm

Notes or other measurements taken: \_\_\_\_\_

Teeth

missing:

left lower: 35, 36, 40, 41, 42, 43, 44

cracked:

right lower: 19, 20, 24, 25, 26