

5/11
3-39

carcass thawed
3/14/11 AM

MRB - 20110315 - LA 001

MC 252

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Code 2

Northern Gulf UME Sample Collection Checklist (Franklin County, FL to LA/TX Border) March 9, 2011

Photographs (see page 2) and morphometrics should be collected for all animals
Chain of custody procedures should be followed for ALL samples, photographs, and datasheets
If the animal is visibly oiled please call 877-433-8299 immediately

LA470

Field # _____

PAH/Chemistry:
Code 2 & 3, 10-20g or 5 ml
Freeze -20, I-chem vial or foil

Blubber
 Liver
 Lung
 Kidney

Freeze -20, I-chem or glass vial:
___ ****Bile** none present
 ****Urine**
 Whole blood
 Aqueous humor

PAH/Chemistry con't:
Freeze -20, foil, dull side in
All conditions:
 ****Swab**
___ ****Tongue depressor** (visibly oiled)

Biotoxins:
Freeze -20, codes 2-4, 1 ml or 5g:
 ****Feces** (meconium)
 ****Urine** (if enough after PAH)
 Liver

CYP 1A:
Code 2 & 3, 1 cm thick section:
Freeze, cryovial, -80 if possible
 Skin+full-thick blubber section
Formalin, 10:1 ratio
 Skin+full-thick blubber section

Parasites (codes 2 - 4):
In 70% Isopropyl alcohol
Representative sample from each species and each location
___ External
___ Internal

Life History (Codes 2 - 5):
Freeze, -20:
___ ****Teeth** (# or whole mandible)
 ****Skin** (isotope)
 ****Stomach** whole (prey, biotoxin, & PAH)
(see stomach instructions page 2)
In DMSO or freezer:
 ****Skin** (genetics)

Viral:
Code 2 and early 3: 2 sets - 1 in RNA later vial and 1 in cryovial, both frozen at -80
Code late 3 and 4 - 1 set of priority samples (***) in RNA later if possible

****Brain** RNA later -80
Lung assoc LN RNA later -80
****Lung** RNA later -80 (x2 - both normal)
****Spleen** RNA later -80
****Adrenal gland** RNA later -80
Kidney RNA later -80
****Liver** RNA later -80

Grossly affected Lymph nodes and other grossly affected tissues (list):

Bacterial Culture Swabs or tissues:
Code 2 Ship to lab immediately on ice packs
 lung assoc. lymph node
 ****Brain** ****Liver**
 ****Spleen** ****Lung**
Other at vet's discretion:

Histology (code 2 & 3):
10% neutral buffered formalin, 10:1 formalin:tissue ratio
Samples fixed in formalin should be no more than 1 cm thick

<input checked="" type="checkbox"/> **Lung	<input checked="" type="checkbox"/> **Liver
<input checked="" type="checkbox"/> **Trachea	<input checked="" type="checkbox"/> **Kidney
<input checked="" type="checkbox"/> **Heart (all 4 chambers)	<input checked="" type="checkbox"/> **Adrenal Gland
<input checked="" type="checkbox"/> Aorta	<input checked="" type="checkbox"/> Urinary bladder
<input checked="" type="checkbox"/> Pulmonary Artery	<input checked="" type="checkbox"/> Blubber
<input checked="" type="checkbox"/> Thymus	<input checked="" type="checkbox"/> Skin
<input checked="" type="checkbox"/> **Thyroid	<input checked="" type="checkbox"/> Muscle (specify location) <i>subcutaneous</i>
<input checked="" type="checkbox"/> **Laryngeal Assoc. Lymph. Tissue	<input checked="" type="checkbox"/> Eye (LR)
<input checked="" type="checkbox"/> Pharynx	<input checked="" type="checkbox"/> Gonad
<input checked="" type="checkbox"/> Tongue	N/A Mammary Gland
<input checked="" type="checkbox"/> Esophagus	<input checked="" type="checkbox"/> **Uterus/Uterine horn
<input checked="" type="checkbox"/> Small Intestine (proximal, mid, distal)	<input checked="" type="checkbox"/> Vagina & Cervix
<input checked="" type="checkbox"/> Colon	VIA Prostate & Penis
<input checked="" type="checkbox"/> Pancreas	Lymph nodes (list): _____
<input checked="" type="checkbox"/> **Spleen	<input checked="" type="checkbox"/> **Thoracic
<input checked="" type="checkbox"/> Spinal Cord (specify location)	<input checked="" type="checkbox"/> **Abdominal/Genital
**Brain (cerebrum, cerebellum, stem, pituitary)	<input checked="" type="checkbox"/> <i>umbilical vein</i>
<input checked="" type="checkbox"/> <i>diaphragm</i>	<input checked="" type="checkbox"/> <i>tracheobronchial</i>
	<input checked="" type="checkbox"/> <i>mesenteric LN</i>

Live animals:

Blood:
Collect the following and please see preparation information on page 2
___ 1 - 3ml purple top K₂EDTA
___ 5 - 10 ml red/gray sizer top SST tubes
___ 1 red top tube

Freeze -80 in Teflon for PAH:
___ Whole blood

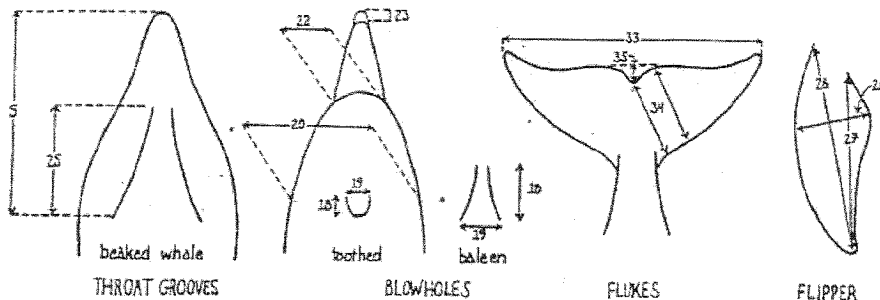
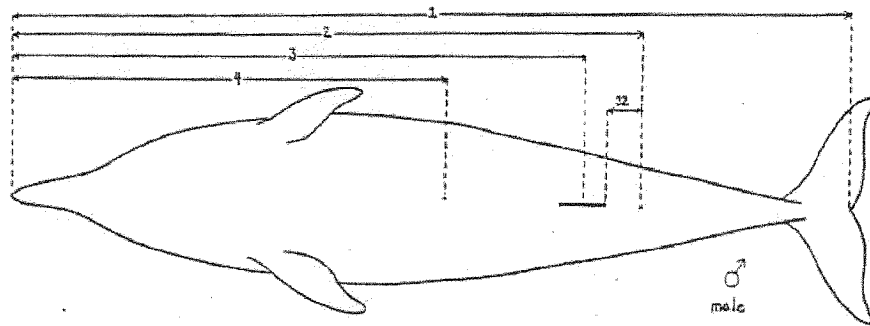
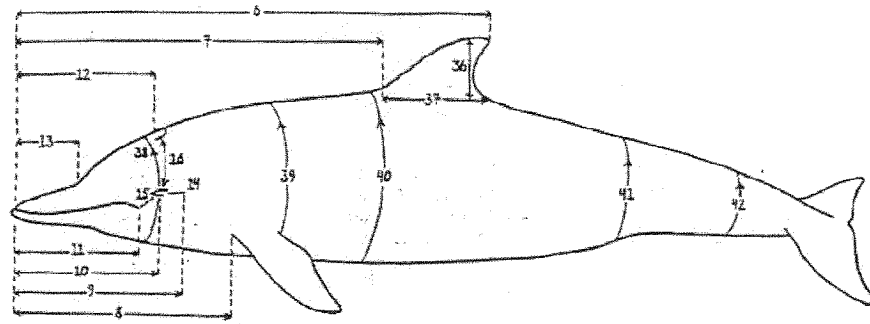
Swab:
in viral transport media
___ Blowhole Swab (ship immediately on ice sacks if possible. if not, freeze at -80)

Tursiops <115 cm (see also pg 2):
Code 2/early 3 or visibly oiled:
necropsy ASAP by network vet
****Radiograph** (before necropsy - dorsal-ventral view skull & body)
___ ****Fetus/neonate** datasheet
___ ****Skull and skeleton**, freeze intact
 ****Umbilical stump & body wall** (formalin)
 Serum, from heart, freeze at -20, cryovial

Code Late 3 - 5 (no visible oil):
___ ****Freeze whole** (photos, length, PAH swab trail)

Pregnant or postparturient females (code 2 & 3):

Uterine horn: ___ Culture swab ___ Formalin/histo ___ -80 ___ RNA later
****Placenta:** ___ Culture swab ___ Formalin/histo ___ -80 ___ RNA later
****Amniotic fluid:** ___ Culture swab ___ -80 ___ RNA later
Genital LN: ___ Culture swab ___ Formalin/histo ___ -80 ___ RNA later
Fetus: follow fetal/neonate (<115 cm) protocol



MEASUREMENTS (specify units cm)

1 total length.....	<u>111.5</u>
2 snout to anus.....	<u>80</u>
3 snout to genital slit.....	<u>77.5</u>
4 snout to umbilicus.....	<u>56.4</u>
5 snout to throat grooves.....	<u>—</u>
6 snout to dorsal fin tip.....	<u>73</u>
7 snout to ant dorsal fin.....	<u>55</u>
8 snout to flipper.....	<u>28</u>
9 snout to ear.....	<u>23.3</u>
10 snout to eye.....	<u>18.5</u>
11 snout to gape.....	<u>15.5</u>
12 snout to blowhole (s).....	<u>17</u>
13 snout to melon apex.....	<u>4.5</u>
14 eye to ear.....	<u>5</u>
15 eye to gape.....	<u>4</u>
16 eye to blowhole edge, L.....	<u>12</u>
17 eye to blowhole edge, R.....	<u>12.5</u>
18 blowhole length <u>1.3</u> width... <u>2</u>	
19 diameter ear opening.....	<u>—</u>
20 head diameter at eyes.....	<u>12.5</u>
21 length of eye opening.....	<u>2</u>
22 rostral width, melon apex.....	<u>4</u>
23 projection up/lower jaw.....	<u>0.2</u>

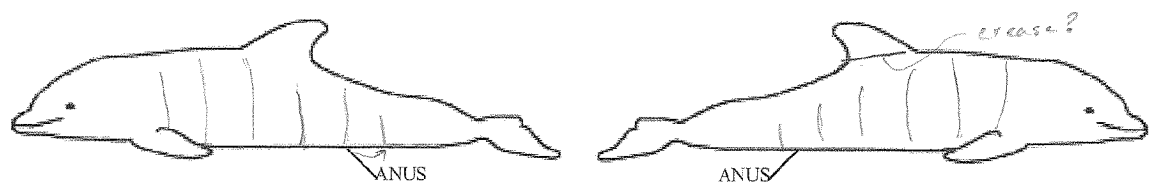
24 number of throat grooves.....	<u>—</u>
25 length of throat grooves.....	<u>—</u>
26 flipper length, anterior.....	<u>23</u>
27 flipper length, posterior.....	<u>17</u>
28 flipper width, maximum.....	<u>8</u>
29 length mammary slits R <u>1.2</u> L <u>1</u>	
30 number of mammary slits.....	<u>2</u>
31 length genital slit <u>3.5</u> anal <u>0.7</u>	
32 perineal length (males).....	<u>—</u>
33 fluke width.....	<u>25.5</u>
34 fluke depth, lobe <u>13</u> notch <u>10.5</u>	
35 fluke notch depth.....	<u>3.3</u>
36 dorsal fin height.....	<u>7.5</u>
37 dorsal fin bse length.....	<u>13.5</u>
38 girth at eye.....	<u>46</u>
39 girth at axilla.....	<u>56.5</u>
40 girth, maximum.....	<u>61.5</u>
41 girth at anus.....	<u>33.5</u>
42 girth midway anus to notch.....	<u>24</u>
43 height same place.....	<u>11.5</u>
44 thickness same place.....	<u>0.6</u>
45 blubber thickness, dorsal.....	<u>1.0</u>
46 blubber thickness, lateral.....	<u>1.0</u>
47 blubber thickness, ventral.....	<u>1.4</u>

measured at axilla

Northern Gulf of Mexico UME Neonatal Characters Data Sheet (adapted from UNCW Marine Mammal Stranding Program)

Field # MRB-20110315-LA001 Sex F
 Total Length 111.5 cm Total Mass 36 lbs 11oz circle: lbs kg
 Strand Date 3/14/11 Location _____
 Condition Code 2 Date of Data Collection 3/15/11
 Photos (Y/N) _____ Necropsied (Y/N) _____

External Exam: (Draw fetal folds on animal. Note which folds are symmetrical on both sides by placing an "s" above the lines)

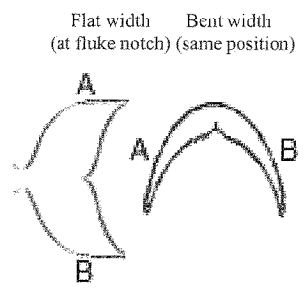


Fetal folds present (Y/N) _____
 (note position on diagrams)
 Prominent light _____
 # on Left 5 prominent, 1 light
 # on Right 6

Dorsal fin _____
 Floppy (Y/N) _____
 Folded (Y/N) _____
 Direction Folded (L/R) _____
 Crease Present (Y/N) _____

Rostral hairs present (Y/N) _____
 # on Left 6
 # on Right 5
 Rostral hair follicles present (Y/N) _____
 # on Left 0
 # on Right 1

Flukes (see diagrams) _____
 Floppy (Y/N) _____
 Flat width (cm) _____
 (A to B)
 Bent width (cm) 5.8
 (A to B)



Teeth erupted (Y/N) _____
 # Left Upper _____
 # Left Lower _____
 # Right Upper _____
 # Right Lower _____

Pectoral flippers _____
 Floppy (Y/N) _____
 Curled (Y/N) _____

- pectoral hemorrhages on skin around neck

Papillae (Y/N) _____
(take a photo with a scale bar)

Dorsal keel _____
 Floppy (Y/N) ? soft
 Folded (Y/N) _____
 Direction Folded (L/R) NA
 Crease (Y/N) _____

- left eye missing
- hemorrhage in subcutis around left eye

Nuchal "dent" present (Y/N) _____

Umbilicus _____
 Attached
 Open/unhealed
 Partially healed
 Completely healed

Field # _____

Internal Exam:

Mid-Thoracic Blubber Thickness (dorsal, lateral, ventral) (cm) 1.0, 1.0, 1.4

Muscle color - note color of epaxial muscle at mid-thoracic site :

Pale (brown-pink) Medium (light red) Dark (dark red-black)

light beige

Lung

Lung texture: Meaty puffy - floats in formalin

Lung color: Pink brown red

Lung condition: Fresh Moderate (Gassy) Decomposed

Lung float test: Left - floats sinks partially floats Right - floats sinks partially floats
(Instructions: From the left and right mid-lung, place a 2 cm cube in formalin and observe for floating)

Ventricular Wall thickness (cm)

(at 1/2 ventricular length; measure each ventral, lateral, dorsal margin, not at interventricular septum)

Left 0.6, 1.0, 0.7

Right 0.3, 0.3, 0.4

Foramen Ovale wide open

Open (Y/N) Y Partially closed (Y/N) _____

Closed (Y/N) N Diameter (cm) 1.2

Ductus Arteriosus

Open Closed wide open

Probe patent (Y/N) N/A - open

Diameter at aorta (cm) 0.6 - of aperture round
Round diameter _____ Flat diameter _____

Umbilical Veins

1 vein 2 veins _____

Open at umbilicus (Y/N) _____

Open 1/2 way to liver (Y/N) whole way

Open at liver margin (Y/N) liver to umbilicus @ body wall

Flat diameter at 1/2 mark (cm) 0.2

Paired Umbilical Artery

Open at umbilicus (Y/N) _____

Open at 1/2 to bladder (Y/N) _____

Open at base of bladder (Y/N) _____

Diameter at 1/2-way mark (cm) _____

Round diameter 0.6 Flat diameter 0.9
(solid - different to flat)

Stomach

Please tie off stomach and freeze intact

Stomach Contents (to be filled out later by

Stomach examiner:

Full / Partial / Empty

Describe contents:

Meconium

Present (Y/N) _____
Prox./Mid/Dist. Intestine _____

Describe contents and where sampled:

- black, green, pasty
Colon/rectum sampled

General Comments: some hemorrhage
at side of head around eye