

GROSS NECROPSY REPORT

Updated 11/11/2010

SPECIES *Tursiops truncatus* **FIELD NUMBER** 61IMMS061110 **DATE** 11 June 2010

LOCATION Ocean Springs, MS **LAT** °N / **LONG** °W

GENDER Male **TL** 226.0cm **COND** 3 **WEIGHT** N/E 500lbs. est.

NECROPSY

EXTERNAL EXAM:

Emaciated with extensive concave epaxial muscle. Transverse processes were palpable throughout mid-thoracic to caudal vertebrae. Both R and L scapulas visible. Healed tooth rakes were present on the dorsal surface of the thorax. Dorsal surface of L pectoral fin possessed multiple healing tooth rakes. Cranial margin of the dorsal fin possessed healed con-specific tooth rakes extending to the middle and caudal edges. R and L ventral surfaces of the flukes possessed healed con-specific tooth rakes along the leading edges at insertion site extending to the distal tips of the blades. Lateral R anterior to genital slit multiple healing con-specific tooth rakes. R pectoral fin along leading edge and dorsal surface of pectoral flipper possessed multiple healing tooth rakes. Mid-thoracic body wall healing tooth rakes were present. Ventral aspect of the head was discolored pink (blood pooling). Just ventral to L eye were multiple healing tooth rakes. Teeth at the tip of the rostrum were worn down and broken. Very distal tip of the mandible epidermal scar tissue was obvious. Both R and L gapes were clean. Tongue had small length papillae present.

Lateral body wall possessed adherent brown substance (oil?) just caudal to axilla. R dorsal surface of body, 5cm cranial to blowhole and extending 4.5 cm lateral to cranial edge of dorsal fin, possessed a straight line of brown adherent substance (oil?). Caudally brown line (oil?) extended from the caudal insertion of the dorsal fin to mid-peduncle. To the right of the brown line the skin was well hydrated and "normal" in color. To the left of the brown line the skin was dark grey-black and sun-burnt.

INTERNAL EXAM

BLUBBER:

Mid-thoracic blubber thickness (mm): 11 (dorsal), 10 (lateral), 5 (ventral)

Anterior dorsal fin (mm): 14 (dorsal), 14 (lateral), NE (ventral)

Peduncle (mm): 28 (dorsal), 8 (lateral), 15 (ventral)

MUSCULOSKELETON

Axial Muscle: Epaxial muscle appeared very concaved. Hypaxial muscle was tacky and adherent to blubber layer. Little lipid observed.

Pectoral Girdle: L shoulder joint NAF

Axial Skeleton: no observed broken bones.

Ribs & Sternum: no observed broken bones

CIRCULATORY SYSTEM

Heart: no visible lesions (NVL); small amount of inter-ventricular fat present, little to no atrio-ventricular fat present

Aorta: NVL

RESPIRATORY SYSTEM

Blowholes: Blood was observed upon swabbing the blowhole and pooled in trachea.

Lungs:

L lung possessed a light to moderate load of lung worm. Pleural surface discolored dark brown throughout (freeze-thaw artifact). Upon cut, parenchyma tissue dark brick red throughout. Overall, L lung was spongy and lumpy to the touch. R lung was inflated and lumpy to the touch. Light load of lung worm. Upon cut, mottled dark brick red to light pink throughout. Multiple areas of encysted nodules of lung worm.

DIGESTIVE SYSTEM

Esophagus: Lining discolored green-beige (decomposition). Thoracic portion contained a whole, partially digested fish. No parasites observed

Fore Stomach: Small amount of brown fluid present. Contained bolus of partially digested fish bones and otoliths. Lining NVL. IMMS staff reported extremely large quantity of partially digested and whole fish in stomach when collected samples on 6/11/2010.

Main Stomach: Light load of *Braunina* (collected). Lining discolored green-black (decomposition). A couple fish vertebrae present.

Pyloric Stomach: Contained one dark colored worm. Small amount light brown-beige fluid present.

Intestine:

Proximal intestine contained moderate amount of yellow-beige mucous. Lining NVL

Mid-intestine epithelium was sloughing off, ~ 50mL of beige pink mucous contents

Distal intestine contained gritty, muddy brown fluid. Lining NVL

No parasites observed throughout intestinal tract.

Liver: NVL, no parasites observed

Pancreas: NVL, soft and friable

URINARY SYSTEM

Kidneys: Very little amount of inter-renal fat. Upon cut, superficial reniculi cortexes were discolored dark brick red-purple throughout with beige-pink medulla. Deeper

reniculi appeared more "normal" with brick red cortexes and beige medullas.
Discoloration a freeze-thaw artifact? No parasites observed.

Adrenals: NVL

Urinary Bladder: Contained thick, viscous yellow-reddish urine (collected). Serosa was mottled red-beige. No stones observed.

ENDOCRINE & HEMOLYMPHATIC SYSTEMS

Thymus: Extensive in size, NVL

Thyroid: NVL

Pituitary: NVL

Spleen: Moderate to heavy amount of hemosiderosis on surface.

Lymph Nodes:

Pre-scapular LN enlarged, discolored dark red (hemorrhagic / edema).

Tracheobronchial LN - NVL

Gastric LN discolored beige to dark red (hemorrhagic / edema).

Mesenteric LN - NVL

REPRODUCTIVE TRACT:

Mature male. Testis possessed a linear scar extending along the longitudinal axis. Penile lesion present at mid-shaft, circular in shape, raised cauliflower like in texture, ~1 cm by 0.5 cm. Light amount of oil adherent to external epithelium.

CENTRAL NERVOUS SYSTEM

Brain: Blood vessels were engorged superficially and extended deep into the sulcuses. Approximately 50 / 50 white to grey matter ratio.

Spinal Cord: NVL. Blood surrounding spinal cord.

SENSORY ORGANS

Eyes: L eye white fibrous material across the central aspect of the cornea, possible ulceration (collected whole for DROT).

Carcass Disposition: frozen at IMMS

This report was generated by: Dr. Connie Chevis, DVM (IMMS) & Marina Piscitelli (UNCW)

TISSUES COLLECTED

June 11, 2010 – Carcass Retrieval Date

Histo (10% Buffered Formalin): 2 jars of tissues – IMMS

Genetics – skin DMSO

Teeth
Oil swabs

June 14, 2010 – Necropsy Date

Histo (10% Buffered Formalin): x2 Jars DROT; x1 Jar IMMS

L eye – DROT
Pre-scapular LN
L lung
R ventricle
L ventricle
R atrium
L atrium
Aorta
Thymus
thyroid
esophagus
forestomach
main stomach
pyloric stomach
proximal intestine
mid-intestine
distal intestine
pancreas
spleen
liver
kidney
urinary bladder
mid-thoracic blubber
epaxial muscle
spinal cord
adrenal
penile lesion
gastric LN
mesenteric LN
pre-scapular LN
tracheobronchial LN

Brain Histo Jar x2 (IMMS & DROT):

Pituitary
L cerebrum
R cerebrum
Cerebellum
Choroid plexus

Cryovials: Lung parasites x3 vials

Hydrocarbon Analysis:

Urine x1 glass amber vial
Lung x2

Kidney x2
Spleen x2
Liver x2
Epaxial Muscle x2
Proximal Intestine x2
Mid-thoracic Blubber x2
Distal intestine contents x1
Epidermis Axilla Swab x2
Trachea Swab x2
Partially digested fish from esophagus x1
Blowhole swab x1
Epidermal Oil Line Swab – caudal section x1
R side epidermal oil line swab –cranial section x1
Forestomach contents x2
Esophagus contents x1

Bacterial and Fungal Culture:

Urine- MHG- Results: 1+ Plesiomonas shigelloides, No beta strep isolated. No fungus isolated at 4 weeks.

Viral culture- Dr. Carlos Romero

Penile lesion swab#1, #2- Positive real-time PCR for Gammaherpesviruses.

PHOTOS/VIDEO: Yes - photos

ASSOCIATED DATA SHEETS: Level A, Delphinid Specimen Record, Marine Mammal Oil Necropsy Report, Chain of Custody, NOAA Photograph Log, IMMS Necropsy Report

second & emailed 6-15-2010

Oiled Marine Mammal

Gross Necropsy Report

Spill Name: BP Deepwater Horizon	
Animal Log #: D-0013	
Level A Field #: 61IMMS0G1110	Tag #:
Species: Tursiops truncatus	
Sex: Female MALE	Age: Adult
Weight: 250	kg (estimate/actual) <input type="radio"/>
SON: emaciated 1 2 3 4 5 6 7 obese <input type="radio"/> Emaciated	
Measurements: Blubber depth 14 mm	
SL: <input type="text"/> cm	AG: <input type="text"/> cm
UG: <input type="text"/> cm	XG: <input type="text"/> cm

Form completed by: Dr. Connie Chev		Date: 6/14/2010
Enforcement Officer: <input type="text"/>		
Strand/Capture location: Ocean Springs, MS		
Collectors Name: Tim Hoffland		
Intake date: 6/11/2010	Euthanasia	
Death date: Unk	Time: <input type="text"/>	<input checked="" type="checkbox"/> yes
Post mortem date: 6/14/2010	Time: <input type="text"/>	<input checked="" type="checkbox"/> no
Carcass Classification: Frozen <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		
2- fresh, 3- fair (organs intact), 4- poor, 5- mummified 3		
Photographs: <input checked="" type="checkbox"/>		
Radiographs: <input type="checkbox"/>		

Clinical signs/diagnosis	Found dead in water.
Antibiotics given	N/A
Pertinent lab results	N/A

GROSS NECROPSY ABNORMALITIES:

Body condition emaciated. Shoulder blades palpable. Loss of nuchal fat. Peduncal vertebrae palpable.
 Stomach was extremely engorged with 25-30 partially digested fish when opened on 6/11/2010.
 Pulmonary parasites- mild to moderate.
 Urine sample- viscous, thick, yellow chalky w/some blood.
 Lesion on penis.
 External oil line along right dorsum. Sunburnt on left side of line, normal hydrated skin on right side of line. Whitish brown thick adherent material was on the line.
 Left eye had adherent whitish fibrous material. Possible corneal ulcer.
 Brain vessels were engorged. There was clotted blood surrounding spinal cord.
 Stomach had one braunina sp. parasite.
 Forestomach contained partially digested fish.

HYDROCARBON ANALYSIS SAMPLES	MICROBIOLOGY	SWABS: other
bile <input type="checkbox"/> • kidney <input checked="" type="checkbox"/> x2 blood <input type="checkbox"/> • muscle <input checked="" type="checkbox"/> x2 urine <input checked="" type="checkbox"/> • lung <input checked="" type="checkbox"/> x2 liver <input checked="" type="checkbox"/> x2 • intestine <input checked="" type="checkbox"/> x2 blubber/fat <input checked="" type="checkbox"/> x2 other: <input checked="" type="checkbox"/> <i>Colon</i> <i>esophagus x2</i>	Lung <input type="checkbox"/> Liver <input type="checkbox"/> other <input checked="" type="checkbox"/> Urine sample	Perine lesion <input type="checkbox"/> <small>(Multiple of anal, skin, trachea, blowfish)</small>

HISTOLOGY SAMPLES			LYMPH NODES:		
lung <input checked="" type="checkbox"/> x3 trachea <input type="checkbox"/> heart <input checked="" type="checkbox"/> x4 aorta <input checked="" type="checkbox"/> x3 pulmonary artery <input type="checkbox"/> thymus <input checked="" type="checkbox"/> salivary gland <input type="checkbox"/> other: <input type="checkbox"/>	thyroid <input checked="" type="checkbox"/> tonsil <input type="checkbox"/> tongue <input type="checkbox"/> esophagus <input checked="" type="checkbox"/> stomach <input checked="" type="checkbox"/> duodenum <input checked="" type="checkbox"/> jejunum <input checked="" type="checkbox"/>	ileum <input checked="" type="checkbox"/> colon <input type="checkbox"/> pancreas <input checked="" type="checkbox"/> x3 spleen <input checked="" type="checkbox"/> x3 liver <input checked="" type="checkbox"/> x3 gall bladder <input type="checkbox"/> brain <input checked="" type="checkbox"/> x2	kidney <input checked="" type="checkbox"/> x3 ureter <input type="checkbox"/> urinary bladder <input checked="" type="checkbox"/> x3 urethra <input type="checkbox"/> bladder <input checked="" type="checkbox"/> x3 bone marrow <input type="checkbox"/> spinal cord <input checked="" type="checkbox"/>	mammary gland <input type="checkbox"/> adrenal <input checked="" type="checkbox"/> x2 skin <input type="checkbox"/> eye (L/R) <input type="checkbox"/> L fat-site: <input type="checkbox"/> whole repro <input type="checkbox"/>	muscle <input checked="" type="checkbox"/> gonad <input checked="" type="checkbox"/> prostate <input type="checkbox"/> uterus <input type="checkbox"/> vagina <input type="checkbox"/> cervix <input type="checkbox"/> penis <input checked="" type="checkbox"/> x2 colonic <input type="checkbox"/> sublumbar <input type="checkbox"/> inguinal <input type="checkbox"/> axillary <input type="checkbox"/> mesenteric <input checked="" type="checkbox"/>

Left ventricle, RV, R. atrium, L. atrium *Precaecal in x3*

Cause of death (preliminary diagnosis): Could not be determined. Animal was emaciated but had recently gorged on fish.	
Examiner: <u>Connie L. Clewley-Chavis</u>	Examiner's signature: <u>[Signature]</u>
Date: 6/14/2010	

Specimen & emailed 6-15-2010

Oiled Marine Mammal Gross Necropsy Report

Spill Name: BP Deepwater Horizon	
Animal Log # D-0013	
Level A Field # 61IMMS061110	Tag #
Species: Tursiops truncatus	
Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female	Age: Adult
Weight: 250 kg <input type="radio"/> estimate/actual <input type="radio"/>	
SON: emaciated 1 2 3 4 5 6 7 obese <input type="checkbox"/> Emaciated	
Measurements: Blubber depth 14 mm	
SL 226 cm	AG cm
UG cm	XG cm
Clinical signs/diagnosis: Found dead in water.	
Antibiotics given: N/A	
Pertinent lab results: N/A	

Form completed by: Dr. Connie Chev	Date: 6/14/2010
Enforcement Officer:	
Strand/Capture location: Coasans Springs, MS	
Collectors Name: Tim Holland	
Intake date: 6/11/2010	Euthanasia
Death date: Unk	Time: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Post mortem date: 6/14/2010	Time: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Carcass Classification: Frozen <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	
2- fresh, 3-fair (organs intact), 4-poor, 5-mummified 3	
Photographs: <input checked="" type="checkbox"/>	
Radiographs: <input type="checkbox"/>	

GROSS NECROPSY ABNORMALITIES:

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 Forestomach contained partially digested fish.

HYDROCARBON ANALYSIS SAMPLES	MICROBIOLOGY	SWABS: other
bile <input type="checkbox"/> kidney <input checked="" type="checkbox"/> x2 blubber/fat <input checked="" type="checkbox"/> x2 blood <input type="checkbox"/> muscle <input checked="" type="checkbox"/> x2 other: <input checked="" type="checkbox"/> colon contents x2 urine <input checked="" type="checkbox"/> lung <input checked="" type="checkbox"/> x2 liver <input checked="" type="checkbox"/> x2 intestine <input checked="" type="checkbox"/> x2	Lung <input type="checkbox"/> Liver <input type="checkbox"/> other <input checked="" type="checkbox"/> Urine sample	Penis lesion <input type="checkbox"/> Multiple of swabs- (Mn, trachea, blowhole)
HISTOLOGY SAMPLES	LYMPH NODES:	
lung <input checked="" type="checkbox"/> x3 thyroid <input checked="" type="checkbox"/> ileum <input checked="" type="checkbox"/> kidney <input checked="" type="checkbox"/> x3 mammary gland <input type="checkbox"/> muscle <input checked="" type="checkbox"/> trachea <input type="checkbox"/> tonsil <input type="checkbox"/> colon <input type="checkbox"/> ureter <input type="checkbox"/> adrenal <input checked="" type="checkbox"/> x3 gonad <input checked="" type="checkbox"/> heart <input checked="" type="checkbox"/> x4 tongue <input type="checkbox"/> pancreas <input checked="" type="checkbox"/> x3 urinary bladder <input checked="" type="checkbox"/> x3 skin <input type="checkbox"/> prostate <input type="checkbox"/> aorta <input checked="" type="checkbox"/> x3 esophagus <input checked="" type="checkbox"/> spleen <input checked="" type="checkbox"/> x3 urethra <input type="checkbox"/> eye (L/R) <input type="checkbox"/> uterus <input type="checkbox"/> pulmonary artery <input type="checkbox"/> stomach <input checked="" type="checkbox"/> liver <input checked="" type="checkbox"/> x3 blubber <input checked="" type="checkbox"/> x3 fat-site: <input type="checkbox"/> vagina <input type="checkbox"/> thymus <input checked="" type="checkbox"/> duodenum <input checked="" type="checkbox"/> gall bladder <input type="checkbox"/> bone marrow <input type="checkbox"/> cervix <input type="checkbox"/> salivary gland <input type="checkbox"/> jejunum <input checked="" type="checkbox"/> brain <input checked="" type="checkbox"/> x2 spinal cord <input checked="" type="checkbox"/> whole repro <input type="checkbox"/> penis <input checked="" type="checkbox"/> x2 other: <input type="checkbox"/>	colonic <input type="checkbox"/> gastric <input checked="" type="checkbox"/> sublumbar <input type="checkbox"/> hepatic <input type="checkbox"/> inguinal <input type="checkbox"/> mediastinal <input type="checkbox"/> axillary <input type="checkbox"/> submandibular <input type="checkbox"/> mesenteric <input checked="" type="checkbox"/> tracheobronchial <input checked="" type="checkbox"/> Pre-scapular LN x3	
Cause of death (preliminary diagnosis): Could not be determined. Animal was emaciated but had recently gorged on fish.		
Examiner: <u>Connie L. Clendon-Chevis</u>	Examiner's signature: <u>[Signature]</u>	Date: 6/14/2010

Oiled Marine Mammal

Gross Necropsy Report

Form completed by	Date
Enforcement Officer	
Strand/Capture location	
Collectors Name	
Intake date	Euthanasia
Death date	Time
Post mortem date	Time
Carcass Classification:	Frozen <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
2-fresh, 3-fair (organs intact), 4-poor, 5-mummified <input checked="" type="checkbox"/> 3	
Photographs:	<input checked="" type="checkbox"/>
Radiographs:	<input type="checkbox"/>

Spill Name	EP Redoubt Harbor
Animal Log #	011MS061115
Level A Field #	611MS061115
Tag #	D-0013
Species	Truncatus
Sex:	Unknown Male Age: Adult
Weight:	500 lbs kg (estimate/actual) <input type="checkbox"/>
SON:	(emaciated) 1 2 3 4 5 6 7 obese
Measurements:	Blubber depth 17 mm
SL	226 cm AC
NE	cm UG
N	cm XG
NE	cm

Clinical signs/diagnosis	
Antibiotics given	NA
Pertinent lab results	NA

GROSS NECROPSY ABNORMALITIES:

Emaciated. Transverse processes obvious, scapula is obvious. Vertebral palpable. papilla on tongue - very small length. Just on right head just dorsal to the right eye. Skull palpable above right eye.

Pulmonary parasites

Urine sample - viscous, thick, yellow chobby w/ some blood. Urine culture submitted.

Lesions on penis

multiple sublesions

HYDROCARBON ANALYSIS SAMPLES	MICROBIOLOGY	SWABS: other
bile <input type="checkbox"/> kidney <input checked="" type="checkbox"/> 2 blubber/fat <input checked="" type="checkbox"/> x2 blood <input type="checkbox"/> muscle <input checked="" type="checkbox"/> x2 other <input checked="" type="checkbox"/> colon contents X urine <input checked="" type="checkbox"/> x2 lung <input checked="" type="checkbox"/> 2 liver <input checked="" type="checkbox"/> x2 intestine <input checked="" type="checkbox"/> 2	Lung <input type="checkbox"/> Liver <input type="checkbox"/> other <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

HISTOLOGY SAMPLES	LYMPH NODES:
lung <input checked="" type="checkbox"/> 3 thyroid <input checked="" type="checkbox"/> ileum <input checked="" type="checkbox"/> kidney <input checked="" type="checkbox"/> 3 mammary gland <input type="checkbox"/> muscle <input checked="" type="checkbox"/> 3 trachea <input type="checkbox"/> tonsil <input type="checkbox"/> colon <input type="checkbox"/> ureter <input type="checkbox"/> adrenal <input checked="" type="checkbox"/> 3 gonad <input type="checkbox"/> heart <input checked="" type="checkbox"/> 4 tongue <input type="checkbox"/> pancreas <input checked="" type="checkbox"/> 3 urinary bladder <input checked="" type="checkbox"/> 3 skin <input type="checkbox"/> prostate <input type="checkbox"/> aorta <input checked="" type="checkbox"/> 3 esophagus <input checked="" type="checkbox"/> spleen <input checked="" type="checkbox"/> urethra <input type="checkbox"/> eye (L/R) <input checked="" type="checkbox"/> left uterus <input type="checkbox"/> pulmonary artery <input type="checkbox"/> stomach <input checked="" type="checkbox"/> liver <input checked="" type="checkbox"/> 3 blubber <input checked="" type="checkbox"/> 3 fat site <input type="checkbox"/> vagina <input type="checkbox"/> thymus <input checked="" type="checkbox"/> duodenum <input checked="" type="checkbox"/> gall bladder <input type="checkbox"/> bone marrow <input type="checkbox"/> cervix <input type="checkbox"/> salivary gland <input type="checkbox"/> jejunum <input checked="" type="checkbox"/> brain <input checked="" type="checkbox"/> 2 spinal cord <input checked="" type="checkbox"/> 3 whole repro <input type="checkbox"/> penis <input checked="" type="checkbox"/> 2 other: <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 3	colonic <input type="checkbox"/> gastric <input checked="" type="checkbox"/> 3 sublumbar <input type="checkbox"/> hepatic <input type="checkbox"/> inguinal <input type="checkbox"/> mediastinal <input type="checkbox"/> axillary <input type="checkbox"/> submandibular <input type="checkbox"/> mesenteric <input checked="" type="checkbox"/> 3 tracheobronchial <input checked="" type="checkbox"/> 3 preScalp Ln <input checked="" type="checkbox"/> x3

Cause of death (preliminary diagnosis)	
Examiner: Dr. Corne Chavis	Examiner's signature: _____ Date: June 14, 2010

DELPHINID SPECIMEN RECORD (AJW 04/11/93)

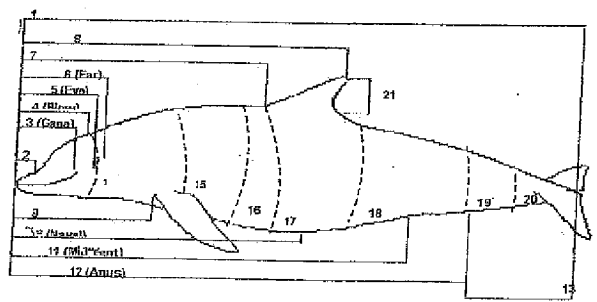
SPECIES T. truncatus SEX Male / Female FIELD NUMBER 61 ENNS06/10
 LENGTH 226.0 cm WEIGHT 500.165 est PHOTO Yes / No LOG _____
 LOCATION Ocean Springs, FL VIDEO Yes / No LOG _____
 LATITUDE _____ LONGITUDE _____ REPORTED BY _____
 SI CODE: 1 2 3 4 5 HI Yes No / CBD DATE OF DEATH (D/M/Y) _____
 (After HI determination)
 STATUS Strand By-Catch Other DATE OF RECOVERY 1 June 2003
 CARCASS Fresh Frozen DATE OF NECROPSY 14 Feb 2005
 FIELD NOTES: _____ LOCATION OF NECROPSY JNNS
 OBSERVERS Dr. Connie & Marina Piscitelli

BLUBBER THICKNESS cm (see diagram for girth locations)

15-DOR	1.1	17-DOR	1.4	19-DOR	2.8
15-LAT	1.0	17-LAT	1.4	19-LAT	.8
15-VEN	.05	17-VEN	N.E	19-VEN	1.5

Emaciated Yes / No / CBD

MORPHOMETRICS Left / Right MEASURER Dr. Connie & Marina Piscitelli



Straight Line

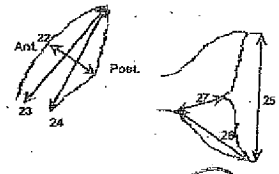
2	8.9
3	23.5
4	31.9
5	30
6	35.5
7	102
8	142
9	44.5
10	NE
11	NE
12	NE
13	107.1

Girths

14	NE
15	NE
16	NE
17	NE
18	NE
19	NE
20	NE

Appendages

21	19
22	16.5
23	40.8
24	30.2
25	61.9
26	40.0
27	19



MALE REPRODUCTIVE TISSUES: WEIGH WITHOUT EPIDIDYMES REPRODUCTIVE STATUS: Mature / Immature
 LEFT TESTIS: Length _____ Width _____ Depth _____ cm Mass _____ g
 RIGHT TESTIS: Length _____ Width _____ Depth _____ cm Mass _____ g
 Seminal fluid in Epididymes: Copious / Present / Absent

FEMALE REPRODUCTIVE TISSUES: NOTCH LEFT OVARY REPRODUCTIVE STATUS: Mature / Immature
 Lactating _____ Pregnant _____ Uterine horn (width at mid-point cm) Left _____ Right _____
 Foetal length _____ cm Foetal mass _____ g Foetal sex: Male / Female
 Mammary gland Left / Right Length _____ Width _____ Depth _____ cm

FIELD NUMBER

6111506111072

PARASITES
TISSUE

TYPE

LOAD

Absent Light Heavy NE Coll.

Skin	<i>Xenobalanus / Syncyamis / Other</i>					
Blubber	<i>Phyllobothrium / Crassicauda / Monorygma / Other</i>					
Fascia	<i>Phyllobothrium / Crassicauda / Monorygma / Other</i>					
Mammarys	<i>Phyllobothrium / Crassicauda / Other</i>					
Lungs	<i>Nematode / Other</i>		X			
Abdomen	<i>Monorygma / Other</i>					
Testes	<i>Monorygma / Other</i>					
Liver	<i>Campula / Other</i>					
Pancreas	<i>Campula / Other</i>					
Intestine	<i>Cestode / Other</i>					
Cranial Sinuses	<i>Nasitrema / Stenurus / Crassicauda / Other</i>					
Brain	<i>Nasitrema / Other</i>					
Other	<i>Stomach - Diarrhea</i>		X			

PATHOLOGY

Give details of specific tissues examined, pathologies that were identified and whether samples were collected

Tissue Pathology Collected

SPECIMAN CHECKLIST

	COLLECTED	DISPOSITION
Teeth	✓	_____
Gonads	✓	_____
Stomach	✓	_____
Skull	_____	_____
Post-cranials	_____	_____
Epiphyses	_____	_____
Genetics	✓	_____
Toxicology	✓	_____
Histopath	✓	_____
Biomechanics	_____	_____
Lipids	_____	_____
Muscles	_____	_____
NEST	_____	_____

DATA SHEET CHECKLIST

	DISPOSITION
SE	_____
HI	_____
Mass	_____
Blubber	_____
Nuchal	_____
Core	_____
NEST	_____
Life Hist.	_____
Stomach	_____

