

GROSS NECROPSY REPORT

SPECIES *Tursiops truncatus* **FIELD NUMBER** 64IMMS06192010 **DATE**
19June2010

LOCATION Gulf of Mexico **LAT** 30.15231 **LONG** -89.06033

GENDER Male **TL** 224 cms **COND** 3 **WEIGHT** N/E 450# Est.

HISTORY: Found dead off of Cat Island, Ms. Pulled to shore

NECROPSY

EXTERNAL EXAM: Distal portion of left fluke was cut off and healed. Healed rake marks extending across middle of dorsal surface of left fluke. Right fluke dorsal surface had conspecific rake marks along entire cranial border. Distal dorsal right fluke had red excoriating lesion from conspecific rake marks. Ventral right fluke had several conspecific rake marks on distal tip and dorsal aspect. Lateral left side of peduncle had multiple scars from conspecific rake marks. Penis was extruded and had narrow linear raised lesion. Left dorsal fin had multiple healed conspecific rake marks. Left lateral side had multiple linear superficial scrapes extending from left eye to mid dorsal fin. Left eye was extruding. Just caudal to dorsal fin on lateral left side were multiple fly maggot eggs. Teeth arcade looked normal. Tongue was swollen and purple. Right pectoral flipper had approximately 2 inches cut off and healed on distal end. Right ventral neck had 2 swirling rake marks. Right side of body from caudal mouth to dorsal fin had thick brownish orange colored sticky material. (oil?). Responder who picked up cadaver yesterday said the material was not visible yesterday. Blistered skin under axilla-postmortem autolysis. Healed circular indented scar lesion on left mid lateral peduncle

INTERNAL EXAM: Left shoulder joint- NAF

BLUBBER:

Mid-thoracic blubber thickness (mm): 9 mm (dorsal), 8 mm (lateral), 9 mm ventral.

Anterior dorsal fin (mm): 20 (dorsal), 9 (lateral), 9 (ventral)

Peduncle (mm): 29 (dorsal), 10 (lateral), 22 (ventral)

MUSCULOSKELETON

Axial Muscle: Epaxial muscle normal. Well muscled. Hypaxial muscle normal.

Axial Skeleton: No observed broken bones

Ribs & Sternum: No observed broken bones

CIRCULATORY SYSTEM

Heart: Pericardium was full of serosanguineous fluid. Heart had reddish black streaks and appeared to have hemorrhaging around the blood vessels. There appear to be very little fat around the arteries. Heart valves were normal. Left atrium was reddish black.

RESPIRATORY SYSTEM

Blowhole: NVL

Trachea: Trachea and bronchial lining was dark red (hemorrhagic)

Lungs: Serosa was dark reddish colored. Lung was firm. Several nodules were palpable throughout the lungs. Nodules contained long linear white worms and inflammatory tissue.

DIGESTIVE SYSTEM

Abdominal cavity: Large amount of serosanguinous fluid poured out when cut into abdominal cavity.

Esophagus: Reddish, tan fluid observed coming out of esophagus. Four undigested fish in esophagus up to area over heart.

Fore Stomach: Packed full of undigested fish and 2 shrimp. Gastric fluid was cream colored.

Main Stomach: Few otoliths.

Pyloric Stomach: Full of gas and tan colored fluid

Intestine: Moderate amount of tan colored fluid.

Colon: Thick light brown material in colon. Sample collected for hydrocarbon analysis

Describe food-stuffs found in GI Tract: 20- 30 undigested whole fish and two shrimp. One digested shrimp. Several otoliths in contents.

Describe parasites found in GI Tract: One 1-cm long narrow white worm

Liver: NVL. No parasites seen

Pancreas: Very large, firm and light pink colored

URINARY SYSTEM

Kidneys: There was air under the renal capsule on both sides. Medulla was red

Adrenals: Adrenal glands were red

Urinary Bladder: Small amount of yellow,thick urine

ENDOCRINE & HEMOLYMPHATIC SYSTEMS

Thymus: Not present

Thyroid: NVL

Pituitary: Small, decomposing

Spleen: Serosa had a few black spots on the serosa. Deep to the black spots were reddish black nodules

Lymph Nodes: Mesenteric Ln were hemorrhagic.

REPRODUCTIVE TRACT:

CENTRAL NERVOUS SYSTEM

Brain: Very autolyzed, pale and small.

Spinal Cord: Autolyzed

HEAD

SENSORY ORGANS

Eyes: Both eyes extruding- Post mortem change

Ears: NAF

OTHER:

CONCLUSIONS:

Carcass Disposition: Put in refrigerator then will be moved to custody freezer truck at IMMS

CAUSE OF DEATH FROM FIELD DETERMINATION:

This report was generated by: Dr. Connie Chevis

TISSUES COLLECTED

Frozen (-10°C): To send to Dr. Carlos Romero for viral analysis

Lung x1

Fecal x1

Brain x1

Spinal cord x1

Spleen x1

Liver x1

Kidney x1

Culturettes: For bacterial and fungal culture

Liver x2
Abdominal fluid x 2
Trachea x2

Histo (10% Buffered Formalin): 3 jars collected. 2 for Dave Rothstein and 1 for IMMS

Lung x3
Trachea x3
Heart- R atrium x3, R ventricle x 3, L atrium x 3, L ventricle X3
Aorta x3
Thyrioid x3
Tongue x3
Esophagus x 3
Stomach x3
Duodemun x3
Jejunum x3
Ilieum x3
Colon x3
Pancreas x3
Spleen x3
Liver x3
Braine x3
Kidney x3 (L)
Urinary bladder x3
Blubber x3
Adrenal x3 (L)
Skin x3
Fat x3 (Base of dorsal fin)
Muscle x3
Testis x3 (L)
Mesenteric ln x3
Hepatic ln x3
Mediastinal ln x3
Submandibular ln x3
Tracheobronchial ln x3

Cryovials: Lung parasites in Boiuns, formalin, and 70% ethanol

Teeth

Hydrocarbon analysis:

Bile in amber jar x1
Urine in amber jar x 1
Liver x2
Kidney x2 (L)
Muscle x 2
Lung x2
Intestine x3
Blubber x2
Colon x 2
Stomach contents x 1

Brain x 2
Material scraped off right side with tongue depressor x2
Gauze pad from material on right side x2
Gauze pad from trachea x2
Colon contents x 2

PHOTOS/VIDEO: Yes/No

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

CULTURE RESULTS:

Liver: Scant proteus penneri

Abdominal: 1+ Proteus mirabilis, 1+ Vibrio parahaemolyticus

Trachea: 1+ Proteus mirabilis, Scant Shewanella putrefaciens

Fungal: Abdominal, Liver, Tachea- No growth at 4 weeks.