

GROSS NECROPSY REPORT

Updated 11/11/2010

SPECIES Tursiops truncatus **FIELD NUMBER** 74IMMS072210 **DATE** 7/23/10

LOCATION Floating in Oceans Springs yacht club **LAT** 30.40983 **LONG** -88.84127

GENDER Male **TL** 243.5 **COND** Code 3 **WEIGHT** Approx 181 kgs

HISTORY: Found dead on 7/22/10. Taken to IMMS late evening . Placed in freezer overnight. Remove early AM and placed in refrigerator. Necropsy at 13:00.

NECROPSY

EXTERNAL EXAM: Teeth- Left upper- 27 teeth. Counting from caudal mouth cranially, teeth 6,7 were broken. 15-21, 23 worn diagonally on cranial aspect. Teeth 22 broken to gumline. Lower left- 23 teeth. 10-18 worn diagonally on caudal aspect. Large amount of blood in mouth. Multiple fresh conspecific rake marks on lower jaw. Right lower arcade- 24 teeth. 1-19 worn on caudal aspect. Right upper arcade- 24 teeth. #17 broken to gumline. 1-20 worn on cranial aspect. Upper jaw- 5 white conspecific rake mark scars. Left lateral and dorsal head- multiple linear superficial scrape marks, fresh. Ventral to left eye fresh conspecific rake marks. Entire left side long linear superficial scrape marks. Possible carcass was dragged on rough terrain. Left and right eye had red conjunctiva and mucopurulent exudate. Blood in blowhole. Dorsal fin- medial aspect- linear marks superficial on lateral surface starting on anterior edge and extending caudally. Bleeding from areas were blubber measurements were taken. Peduncle vertebrae were visible. Linear grey mid left to dorsal mark on base of flukes- rope mark from being towed. Left dorsal fluke linear scrapes starting on cranial aspect and extending caudally on $\frac{3}{4}$ of dorsal fin. Ventral aspect of left fluke- multiple linear scrape lesions. Long conspecific rake mark healed. Distal ventral left fluke- white discoloration 14 cm by 2 cm. Dorsal right flipper had multiple conspecific rake marks healed. Ventral right flipper had 4 healed conspecific rake marks. Caudal peduncle- diagonal cranial to ventral fresh jagged cut extending 10 cm ventrally and 1.3 cm wide. Right dorsal fluke multiple conspecific rake marks. Ventral right fluke- scarred conspecific rake marks. Ribs were visible and indentation on midline of lateral body on right side. Body condition 3/7. Two 0.5 cm openings 0.5 cm lateral to ventral midline in front of anal slit. Right side extended 0.6 cm deep. Left side extended 0.5 cm deep. Left lateral ventral abdomen had multiple healed conspecific rake marks. Superficial conspecific rake mark left lateral to genital slit. Large fresh linear scrape on ventral abdomen.

INTERNAL EXAM:

BLUBBER: Bleeding from blubber. Thin blubber layer.

MUSCULOSKELETON

Axial Muscle: Distinct difference in musculature coloration between neck muscles compared to dorsal vertebral musculature. The neck musculature was paler.

Axial Skeleton: Slight irregularity on edges of left shoulder joint capsule. Possible arthritic changes. Sample collected.

Ribs & Sternum: No fractures seen.

CIRCULATORY SYSTEM

Heart: Coronary arteries were hemorrhagic.

RESPIRATORY SYSTEM

Blowholes: Bleeding from blowhole

Epiglottis: Dark red discoloration.

Trachea: Dark red discoloration on mucosa. Thickened, dark red submucosa.

Lungs: Left mid lateral lung had a 7 cm healed laceration. Tissue deep to laceration had fistula with fibrous/healed lining, a black discoloration at the bottom and a white long linear parasite. Both lungs had mild parasitemia- long linear parasites. Both lungs had ecchymotic lesions generalized on lung surface.

DIGESTIVE SYSTEM

Tongue: Base of tongue had greenish black discoloration. Small yellow 0.5mm yellow oblong objects present in tonsillar area.

Esophagus: Submucosa was dark red, hemorrhagic. No ulcers were seen. Esophagus mucosa had yellowish white coating.

Fore Stomach: No food but did have 12 mls of orange colored liquid and 2 squid beaks. No ulcers seen.

Main Stomach: No food but 1 squid beak.

Pyloric Stomach: 2 cystic parasites- Branina sp? Mucosa had petechial green irregular coalescing green spots.

Intestine: No parasites found.

Describe food-stuffs found in GI Tract: Empty

Describe parasites found in GI Tract: 2 white circular cystic parasites in pyloric stomach

Liver: Dark red, profuse bleeding when cut surface.

Pancreas: Large, multiple dark, red hemorrhagic areas.

URINARY SYSTEM

Kidneys: No stones found.

Adrenals: Light, pale color.

Urinary Bladder: 3 mls of thick milky yellow urine. No stones found.

ENDOCRINE & HEMOLYMPHATIC SYSTEMS

Thyroid: Dark red.

Pituitary: Dark red.

Spleen: Serosa had black spot on surface. Inside was dark red.

Lymph Nodes: Subscabular and submandibular lymph nodes were dark red and hemorrhagic. Tracheal bronchial ln had dark black generalized petechial lesions and a 2 mm hemorrhagic spot. Mesenteric ln were dark red.

REPRODUCTIVE TRACT: No lesions seen on penis.

CENTRAL NERVOUS SYSTEM

Brain: Serosanguineous fluid in brain cavity. Left cerebrum- blood vessels were larger and more visible.

Spinal Cord: No lesions visible.

HEAD

SENSORY ORGANS

Eyes: Mucopurulent discharge from both eyes. Conjunctiva was red on both eyes.

Ears: Bleeding from left ear when cut.

OTHER:

CONCLUSIONS: Hemorrhagic syndrome. Old healed lesion in left lung. Poor body condition and no food in stomach.

Carcass Disposition: Frozen. BP evidence truck.

CAUSE OF DEATH FROM FIELD DETERMINATION: Hemorrhagic syndrome. Etiology not found on gross examination.

This report was generated by: Dr. Connie Chevis

TISSUES COLLECTED

Frozen (-10°C): IMMS X2

Blubber
Muscle
Liver
Kidney-L
Lung- L
Stomach contents- fluid in amber jar
Teeth

Histo (10% Buffered Formalin): DROT x2, IMMS X2

Lung
Trachea
Heart- R, L Atrium, R,L Ventricle.
Aorta
Pulmonary artery
Thyroid
Tonsil
Tongue
Esophagus
Stomach
Duodenum
Jejunum
Ileum
Colon
Pancreas
Spleen
Liver
Brain- one extra jar for DROT
Kidney-L
Ureter
Urinary bladder
Blubber
Bone marrow
Spinal cord
Adrenal
Skin
Eye-L-DROT, IMMS-R
Muscle
Gonad
Prostate
Penis
Lymph nodes- mesenteric, suprascapular, tracheobronchial, mediastinal, submandibular

Left ear canal
Left acromion-DROT

Hydrocarbon: X2

Bile- amber jar x2, 1- IMMS
Blood
Urine X1
Liver
Kidney
Muscle
Lung
Intestine
Blubber

Viral: Dr. Romero

Lung
Cerebellum
Cerebrum
Spinal cord
BH swab
Spleen
Liver
Kidney-L

Parasites collected for Dr. Overstreet:

Lung
Pyloric stomach

Culture/Sensitivity- Bacterial and fungal:

Liver
Thoracic fluid- 1+ Vibrio parahaemolyticus, No fungus isolated at 4 weeks.

PHOTOS/VIDEO: Yes/No

ASSOCIATED DATA SHEETS: Level A Data Form, Delphinid Specimen record, NOAA Photo Log, NOAA Chain of custody record.