

COMPARATIVE PATHOLOGY LABORATORY

PAPANICOLAOU CANCER RESEARCH BUILDING - 1550 N.W. 10TH AVENUE, RM 105, MIAMI, FL 33136

ANIMAL PATHOLOGY REPORT

To: NATIONAL MARINE FISHERIES
75 VIRGINIA BEACH DRIVE
KEY BISCAYNE, FL 33149

Lab Number CP00-2091
Account No. X4446I
Procedure 800909
Send via FAXMAIL

Date Received: 05/23/2000
Owner: BAHAMAS
Species: ZIPHIUS
Breed: WHALE

Date of Report: 05/31/2000
Identity ZC8
Sex M
Age UNKNOWN

Final Diagnosis and Comments:

GROSS DESCRIPTION:

SECTIONS OF MESENTERIC LYMPH NODE, KIDNEY, TESTIS AND RIGHT LATERAL MANDIBULAR ACOUSTIC BLUBBER ARE PRESENTED. GROSSLY THE LYMPH NODE KIDNEY AND TESTIS ARE NOT REMARKABLE. RIGHT LATERAL MANDIBULAR ACOUSTIC BUBBER, FROM THE MANDIBULAR SYMPHYSIS TO CAUDAL OF THE MANDIBULAR AMUS (PHOTO 1) IS EXAMINED. THERE ARE RETAINED BUNDLES OF RAMUS FIBERS ALONG THE MEDIAL ASPECT OF THE BLUBBER. ON CROSS SECTION THE BLUBBER HAS DARK RED-BROWN STAINING WHICH EXTENDS 1 CM. SUPERFICIALLY (LATERALLY). [PARAFFIN BLOCKS C & D] (PHOTO 2 AND 3). CAUDALLY, A MEDIUM/SMALL VEIN HAS SIMILAR CIRCUMFERENTIAL STAINING [E]. (PHOTOS 4-6).

MICROSCOPIC DIAGNOSIS:

MESENTERIC LYMPH NODE, AUTOLYSIS, MODERATE TO SEVERE AND LYMPHADENITIS, EOSINOPHILIC, MULTIFOCAL, MILD
KIDNEY, AUTOLYSIS, MODERATE
TESTIS, ASPERMATOGENESIS AND AUTOLYSIS, MILD
RIGHT LATERAL MANDIBULAR BLUBBER, NOT REMARKABLE

(CONTINUED ON CP00-2091A)



GREGORY D. BOSSART, VMD, PHD

Pathologist

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(CONTINUED FROM CP00-2091)

MICROSCOPIC DESCRIPTION:

THE SECTIONS HAVE VARYING DEGREES OF POST-MORTEM AUTOLYSIS, WHICH LIMITS AN IN-DEPTH HISTOPATHOLOGIC ANALYSIS. THE MESENTERIC LYMPH NODE HAS MODERATE TO SEVERE POST-MORTEM AUTOLYSIS WHICH OBSCURES HISTOPATHOLOGIC EXAMINATION. THERE ARE PATCHY AREAS ALONG THE CORTEX WHICH ARE LESS OBSCURED. IN THESE REGIONS INCREASED NUMBERS OF EOSINOPHILS ARE PRESENT.

MULTIPLE SECTIONS OF ACOUSTIC BLUBBER FROM THE RIGHT LATERAL MANDIBLE ARE EXAMINED. THE SECTIONS CONSIST OF ABUNDANT ADIPOCYTES WITH CONFLUENT FASCICLES OF DENSE CONNECTIVE TISSUE WITH INTERSPERSED NERVES AND BLOOD VESSELS.

COMMENT:

A CAUSE OF DEATH CANNOT BE DETERMINED FROM THE TISSUES SUBMITTED. THE MESENTERIC LYMPH NODE INFLAMMATORY CHANGES ARE NON-SPECIFIC FINDINGS; HOWEVER, EOSINOPHILIC LYMPHADENITIS IS COMMONLY OBSERVED IN STRANDED FREE-RANGING ODONTOCETES AND IS TYPICALLY ATTRIBUTED TO A VERMINOUS ENTERITIS. THERE IS NO

(CONTINUED ON CP00-2091B)

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MICROSCOPIC EVIDENCE OF HEMORRHAGE IN THE SECTIONS OF ACOUSTIC
BLUBBER. THE RED BROWN STAINING OBSERVED GROSSLY MOST LIKELY
REPRESENTED A POST MORTEM CHANGE.

RUTH EWING, DVM

PATHOLOGIST



GREGORY D. BOSSART, VMD, PHD

Pathologist

COPY 2



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SCHOOL OF MEDICINE

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MICROSCOPIC DIAGNOSIS:

MESENTERIC LYMPH NODE, AUTOLYSIS. MODERATE TO SEVERE AND LYMPHADENITIS. EOSINOPHILIC, MULTIFOCAL, MILD KIDNEY, AUTOLYSIS, MODERATE TESTIS, ASPERMATOGENESIS AND AUTOLYSIS. MILD RIGHT LATERAL MANDIBULAR BLUBBER. NOT REMARKABLE

(CONTINUED ON CP00-2091A)

GREGORY D. BOSSART, VMD, PHD

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RUTH EWING, DVM

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GREGORY D. BOSSART, VMD, PHD

Pathologist



REPLY TO
ATTENTION OF

DEPARTMENT OF DEFENSE
ARMED FORCES INSTITUTE OF PATHOLOGY
WASHINGTON DC 20306-6000



June 6, 2000

2732075 00
ANIMAL, CETACEAN WHALE
ZC8 T
TPL/VIM/mw

Dr. Ruth Ewing
National Marine Fisheries Service
75 Virginia Beach Drive
Miami, FL 33149

AFIP REPORT:

ZC8 Testis; epididymis; kidney; mesenteric lymph node (per contributor); blubber, right lateral mandibular area (per contributor): Essentially normal tissues, Cuvier's beaked whale (*Ziphius cavirostris*), cetacean.

COMMENT: Histopathologic examination of the submitted tissues did not reveal the cause of death. All tissues exhibit varying degrees of postmortem autolysis and bacterial overgrowth, but no significant histologic lesions are observed.

Thomas P. Lipscomb, DVM, DACVP
LTC, VC, USA
Chief, Division of Veterinary
Pathology

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