

DIAGNOSTIC CASE REPORT

U. S. GEOLOGICAL SURVEY-BIOLOGICAL RESOURCES DIVISION
NATIONAL WILDLIFE HEALTH CENTER-HONOLULU FIELD STATION
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Case Number: 17906

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Species submitted (n):

Turtle: Green (8)

SPECIMENS SUBMITTED: Carcass-Frozen

History: These animals were raised at Le Meridien Hotel in Bora Bora and were part of an unusual mortality in the hotel lagoon. Date of collection for all turtles unknown.

Findings: A variety of gross and microscopic findings were seen none of which, except for one case, could explain the cause of death. Tissues analyzed for anticoagulants and paraquat (turtles 1 and 2) were negative for both toxicants.

Final diagnosis: Accession 1-Vascular flukes; Accession 2-Undetermined; Accession 3-Undetermined; Accession 4-Undetermined; Accession 5-Undetermined; Accession 6-Encephalitis; Accession 7-Undetermined; Accession 8-Not necropsied.

Comments: No unifying cause of death could be seen for all these turtles. In many cases, tissues were too decomposed or autolyzed to make a good assessment. One turtle died from a severe infection with blood flukes. Another died from inflammation of the brain the cause of which is unknown. In the future, it would be helpful, if we're to sort out this mortality, to have the following information for animals submitted: Date and location of collection, size, weight, sex, necropsy findings (if done), and preservation of fresh non-frozen tissues in 10% buffered formalin. If possible, careful necropsies with collection of fresh tissues would be helpful.

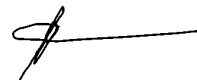
Management: None given unknown etiologies of death for most turtles. Recently (09-26-2011), George Balazs was notified of a return of mortalities at the Meridien. It is critical that this be followed up. Email communications indicated turtles were dying fairly rapidly suggesting an acute event such as possibly a virus, a toxin, or toxicant. Suggested course of action:

- 1) Do necropsies of freshly dead turtles and preserve tissues in formalin. See http://www.nwhc.usgs.gov/publications/necropsy_manuals/Sea_Turtle_Necropsy_Manual-English.pdf for instructions on how to do this. Formaldehyde in Tahiti should be available either at the local hospital or mortuary. When doing necropsies, feel free to take photos of what you see.
- 2) Send the tissues to HFS for microscopic examination of tissues. This will give us the best hope of determining what is killing the turtles. HFS has a CITES import permit allowing us to receive turtle specimens.
- 3) Carefully document the date of death, location, size class of turtles affected, and clinical signs.

Report Date (mm/dd/yyyy): 9/26/2011

Necropsy report: Available upon request

Copies of this report sent to:



If you have questions regarding this case, contact Thierry M. Work MS, DVM, MPVM at 808-792-9520. Include above Case Number. Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.

NOTE: Information in this report supersedes any information from previous reports regarding this case

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 1
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: () TAG NO.: ()
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (1800 g), Straight carapace length (25.5 cm).
COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)
HISTORY: This animal was found dead in the lagoon of Le Meridien-Bora Bora in Tahiti and shipped to Honolulu for necropsy. Body measurements (cm): SCL-25.5, SCW-22.7, RFF width-4.8, plastron length-21.1, notch length-25.3, head width-4.4.

External/Internal

EXTERNAL: No remarkable lesions are seen.

INTERNAL: The liver is firm, smooth, and homogenous purple-brown. The heart is firm, smooth, homogenous red-pink and otherwise unremarkable. The lungs are spongy and homogenous pink. The spleen is firm, smooth, and homogenous red-brown. The kidneys are firm, smooth, and homogenous brown. The brain is smooth, firm, and homogenous tan-pink. The esophageal mucosa is smooth and homogenous tan. The intestines are tan and the serosa contains numerous black nodules. No lesions are seen in the brain, musculoskeletal system, pericardial sac, heart valves, tracheal lumen, gall bladder, gastrointestinal mucosa and serosa, gonads, adrenal and thyroid glands, pancreas and superficial and cut surface of liver, heart, kidney, spleen, and lungs.

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Carcass-Frozen.

HISTO: Brain (A); Spleen, Pancreas, Kidney (B); Lung, Liver (C); Heart (D); Pancreas, Intestine small, Intestine large (E); Thyroid, Mesentery (F).

Laboratory Results

HISTOPATHOLOGY

Lung: There are massive numbers of trematode within smooth muscle walls. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response.

Thyroid: There are moderate numbers of trematode eggs. Two types of eggs are seen,

round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response. Round eggs appear more numerous.

Liver: There are moderate numbers of trematode eggs. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response. More round eggs are seen.

Heart: There are moderate numbers of trematode eggs. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response. More round eggs are seen.

Brain: There are small numbers of trematode eggs associated with macrophages and giant cells. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response.

Spleen: There are numerous trematode eggs. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response.

Kidney: There are moderate numbers of trematode eggs among proximal tubules. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response.

Pancreas: There are large numbers of trematode eggs. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response.

Intestine small: There are large numbers of trematode eggs within the submucosa and serosa. Two types of eggs are seen, round eggs and eggs with bipolar spines that appear to elicit a more severe inflammatory response. More round eggs are seen. Adult trematodes are present within mesenteric arteries.

All other Organs: No remarkable lesions are seen.

Morphologic Diagnosis:

1. Moderate to severe, diffuse, chronic, inflammation with trematode eggs, lungs, liver, spleen, kidney, thyroid, intestines, brain, pancreas.

COMMENTS: This turtle had massive numbers of trematode eggs in multiple organs, particularly the lungs. Although no necrosis was seen associated with these eggs, their sheer numbers makes it difficult to conceive that they did not have something to do with the animal's death.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Vascular flukes	(T40000)	()	(E46500)	()	()	()

Diagnostic findings may not be published without the knowledge and consent of the pathologist. Milt Code: (Infectious disease)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 2
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: () TAG NO.: ()
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (11364 g), Straight carapace length (42.1 cm).
COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)
HISTORY: This animal was found dead in the lagoon of Le Meridien-Bora Bora in Tahiti and shipped to Honolulu for necropsy. Body measurements (cm): SCL-42.1, SCW-34.3, plastron length-35.0, notch length-41.8, CCL-45.0, CCW-42.5.

External/Internal

EXTERNAL: There are 2 mototool dots on the 5th central scute. The carcass is massively swollen and the cloaca is prolapsed.

INTERNAL: There is edema and hemorrhage of the head and pelvic musculature. There is diffuse hemorrhage in the submandibular musculature. The coelomic cavity is filled with air. The liver is firm, smooth, and homogenous pale tan. The heart is firm, smooth, homogenous red-pink and otherwise unremarkable. The lungs are collapsed and flat against the body cavity with the right lung most affected. The spleen is firm, smooth, and homogenous red-brown. The kidneys are firm, smooth, and homogenous brown. The bladder is tan-pink and free of parasites. The brain is smooth, firm, and homogenous tan-pink. The salt glands are very red. There is bleeding in the tongue musculature. The esophageal mucosa is smooth and homogenous tan. The intestines are gas-filled and mostly empty. No lesions are seen in the brain, pericardial sac, heart valves, tracheal lumen, gall bladder, gastrointestinal mucosa and serosa, gonads, adrenal and thyroid glands, pancreas and superficial and cut surface of heart, kidney, and spleen.

PRELIMINARY DIAGNOSIS: Collapsed lungs.

Samples

SECIMENS RECEIVED: Carcass-Frozen.

LAB SPECIMENS: Kidney-Frozen, Liver-Frozen (Toxicology).

HISTO: Skeletal muscle, Brain (A); Spleen, Kidney (B); Lung (C); Liver (D); Skeletal muscle, Heart (E); Esophagus, Skeletal muscle, Thymus (F); Intestine small (G); Skeletal muscle, Gland salt (H); Trachea (I); Intestine large, Esophagus (J).

Laboratory Results

TOXICOLOGY: Levels of Poisoning syndrome, NOS in Kidney were ppm by HPLC (CVDL),

Levels of Anticoagulant rodenticide, poisoning syndrome in Liver were ppm by HPLC (CVDL), Levels of Brodifacoum in Liver were ppm by HPLC (CVDL), Levels of Chlorophacinone in Liver were ppm by HPLC (CVDL), Levels of Diphacinone in Liver were ppm by HPLC (CVDL).

HISTOPATHOLOGY

Lung: There are small numbers of round and bipolar trematode eggs.

Gland salt: There are small numbers of trematode eggs near the lumen.

Brain: Rare round trematode eggs are seen surrounded by macrophages.

Spleen: There are moderate numbers of bipolar trematode eggs.

Kidney: There are small numbers of bipolar trematode eggs.

Esophagus: Occasional submucosal lymphoid nodules are seen.

Intestine small: There is a small number of granulocytes infiltrating the submucosa.

All other Organs: No remarkable lesions are seen.

Morphologic Diagnosis:

- 1. Mild, focal, chronic, inflammation with trematode eggs, lung, brain, salt gland, spleen, kidney.

COMMENTS:Grossly, the suspected cause of death is collapse of the lungs secondary to excessive accumulation of air in the coelomic cavity. No microscopic lesions indicative of cause of death were seen although tissues were moderately autolyzed. No explanation was seen for the marked swelling of skeletal muscle and excessive air in the coelomic cavity. There was no evidence of poisoning by paraquat or anticoagulant rodenticides.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Undetermined	(T00010)	()	(E00040)	(FY3500)	()	()

Diagnostic findings may not be published without the knowledge and consent of the pathologist.

Milt Code: (Open)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 3
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: () TAG NO.: ()
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (7727 g), Straight carapace length (37.3 cm).
COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)
HISTORY: This animal was found dead in the lagoon of Le Meridien-Bora Bora in Tahiti and shipped to Honolulu for necropsy. Body measurements (cm): SCL-37.3, SCW-32.7, plastron length-30.5, notch length-36.9, CCL-40.0, CCW-37.0.

External/Internal

EXTERNAL: There are 3 mototool dots on the 3rd lateral left scute. The eyes are sunken.

INTERNAL: The liver is firm, smooth, and homogenous red-brown. The heart is firm, smooth, homogenous purple-pink and otherwise unremarkable. The lungs are spongy and homogenous red-pink. The spleen is firm, smooth, and homogenous red-brown. The kidneys are firm, smooth, and homogenous brown. The brain is smooth, firm, and homogenous tan-pink. The esophageal mucosa is smooth and homogenous tan. The intestines are homogenous tan. No lesions are seen in the brain, musculoskeletal system, pericardial sac, heart valves, tracheal lumen, gall bladder, gastrointestinal mucosa and serosa, gonads, adrenal and thyroid glands, pancreas and superficial and cut surface of liver, heart, kidney, spleen, and lungs.

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Carcass-Frozen.
LAB SPECIMENS: Kidney-Frozen, Liver-Frozen (Toxicology).
HISTO: Brain (A); Spleen, Lung (B); Kidney (C); Heart (D); Gland salt, Stomach, Thymus (E); Intestine small (F); Liver (G).

Laboratory Results

TOXICOLOGY: Levels of Poisoning syndrome, NOS in Kidney were ppm by HPLC (CVDL), Levels of Anticoagulant rodenticide, poisoning syndrome in Liver were ppm by HPLC (CVDL), Levels of Brodifacoum in Liver were ppm by HPLC (CVDL), Levels of Chlorophacinone in Liver were ppm by HPLC (CVDL), Levels of Diphacinone in Liver were ppm by HPLC (CVDL).

HISTOPATHOLOGY

Lung: There are small numbers of trematode eggs within smooth muscle wall.

Spleen: There are small numbers of trematode eggs.

Stomach: There are small numbers of trematode eggs within the lamina propria some of which are accompanied by macrophages.

Intestine small: There are small numbers of trematode eggs within the lamina propria some of which are accompanied by macrophages.

All other Organs: No remarkable lesions are seen.

Morphologic Diagnosis:

1. Mild, focal, chronic, inflammation with trematode eggs, small intestines, stomach, spleen, lung.

COMMENTS:No gross or microscopic lesions indicative of cause of death were seen. However, this must be qualified by the poor state of preservation of tissues that could have masked subtle lesion. There was no evidence of poisoning by paraquat or anticoagulant rodenticides.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Undetermined	(T00010)	()	(E00040)	(FY3500)	()	()

Diagnostic findings may not be published without the knowledge and consent of the pathologist. Milt Code: (Open)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
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2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 4
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Unknown) POSTMORTEM: (Unknown) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference number) TAG NO.: (SHARK)
SPECIES: (Turtle: Green) AGE: (Unknown) SEX: (Unknown)

COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)

HISTORY: Formalin-fixed tissues from this animal found dead in the lagoon of Le Meridien-Bora Bora in Tahiti were shipped to Honolulu for histopathological examination. Specimen identification: Tortue Shark.

External/Internal

EXTERNAL: No necropsy report.

INTERNAL: No necropsy report.

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Tissue-Fixed formalin.

HISTO: Liver (A); Esophagus (B); Esophagus (C).

Laboratory Results

HISTOPATHOLOGY

Esophagus: There are foci of mucosal necrosis and focal lymphoid infiltrate in the submucosa.

All other Organs: No remarkable lesions are seen.

Morphologic Diagnosis:

1. Mild, focal, necrosis and chronic inflammation, mucosa, esophagus.

COMMENTS: The liver section was markedly autolyzed precluding adequate histologic interpretation. No lesions indicative of cause of death were seen.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Undetermined	(T00010)	()	(E00040)	(FY3500)	()	()

Diagnostic findings may not be published without the knowledge and consent of the

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pathologist.

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Milt Code: (Open)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 5
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Unknown) POSTMORTEM: (Unknown) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference number) TAG NO.: (BORA)
SPECIES: (Turtle: Green) AGE: (Unknown) SEX: (Unknown)

COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)

HISTORY: Formalin-fixed tissues from this animal found dead in the lagoon of Le Meridien-Bora Bora in Tahiti were shipped to Honolulu for histopathological examination. Specimen identification: Tortue Bora.

External/Internal

EXTERNAL: No necropsy report.

INTERNAL: No necropsy report.

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Tissue-Fixed formalin.

HISTO: Liver (A); Liver (B).

Laboratory Results

HISTOPATHOLOGY

Liver: Hepatocytes are markedly vacuolated displacing nuclei to periphery. Many hepatocytes are fragmented and coalesced into pools of eosinophilic material. Rare round trematode eggs are seen with little to no inflammatory response.

Morphologic Diagnosis:

1. Severe, diffuse, vacuolar degeneration, hepatocytes, liver.
-

COMMENTS: The changes in the liver were indicative of either fatty degeneration or vacuolar change secondary to toxicity. Absent additional findings, I cannot determine the cause of those changes.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Undetermined	(T00010)	()	(E00040)	(FY3500)	()	()

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Diagnostic findings may not be published without the knowledge and consent of the pathologist.

Milt Code: (Open)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 6
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Unknown) POSTMORTEM: (Unknown) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference number) TAG NO.: (11)
SPECIES: (Turtle: Green) AGE: (Unknown) SEX: (Unknown)

COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)

HISTORY: Formalin-fixed tissues from this animal found dead in the lagoon of Le Meridien-Bora Bora in Tahiti were shipped to Honolulu for histopathological examination. Specimen identification: Tortue 11.

External/Internal

EXTERNAL: No necropsy report.

INTERNAL: No necropsy report.

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Tissue-Fixed formalin.

HISTO: Brain (A); Stomach, Esophagus (B); Stomach, Intestine small (C); Intestine large, Intestine small, Pancreas (D).

Laboratory Results

HISTOPATHOLOGY

Brain: There is focal swelling and liquefaction necrosis of neurons. There are multiple focal infiltrates of melanized macrophages, mononuclear cells and lesser numbers of granulocytes. Rare round trematode eggs with little to no inflammatory response are seen.

Stomach: Rare round trematode eggs with little to no inflammation are seen within submucosa.

Intestine small: Small numbers of round trematode eggs with little to no inflammation are within the submucosa.

Intestine large: Within submucosa are pockets of trematode eggs mixed with trematodes. Trematode eggs in some sections are seen sloughing into lumen along with intact mucosal cells.

All other Organs: No remarkable lesions are seen.

Morphologic Diagnosis:

- 1. Moderate, chronic, trematodiasis, large intestines.
- 2. Severe, focal, chronic and acute, necrosis and inflammation, brain.

COMMENTS: Absent addition history or necropsy findings on this carcass, the cause of the changes in the brain are unknown, however, they may have led to the animal's death. Possible causes include both infectious and non-infectious.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Encephalitis	()	()	()	()	(DA1010)	()

Diagnostic findings may not be published without the knowledge and consent of the pathologist.

Milt Code: (Other)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 7
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Unknown) POSTMORTEM: (Unknown) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference number) TAG NO.: (NAOMI)
SPECIES: (Turtle: Green) AGE: (Unknown) SEX: (Unknown)

COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)

HISTORY: Formalin-fixed tissues from this animal found dead in the lagoon of Le Meridien-Bora Bora in Tahiti were shipped to Honolulu for histopathological examination. Specimen identification: Tortue Naomi.

External/Internal

EXTERNAL: No necropsy report.

INTERNAL: No necropsy report.

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Tissue-Fixed formalin.

HISTO: Heart (A); Heart, Artery large (B); Heart, Artery large (C); Intestine large, Esophagus, Pancreas, Intestine small (D); Kidney, Intestine small, Stomach, Liver (E); Kidney, Liver, Lung (F); Lung (G); Lung (H).

Laboratory Results

HISTOPATHOLOGY

Lung: Small numbers of round trematode eggs are seen.

Liver: Small numbers of bipolar trematode eggs are seen.

Kidney: An adult trematode is seen within an artery.

All other Organs: No remarkable lesions are seen.

Morphologic Diagnosis:

1. Mild, focal, trematodiasis, lung, kidney, liver.

COMMENTS: Tissues were fairly autolyzed which obscured much cellular detail. However, no microscopic lesions indicative of cause of death were seen.

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Undetermined	(T00010)	()	(E00040)	(FY3500)	()	()

Diagnostic findings may not be published without the knowledge and consent of the pathologist.

Milt Code: (Open)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Mr. George Balazs
National Oceanic and Atmospheric
Administration
2570 Dole St
Honolulu, Hawaii 96822
United States

Case: 17906
Accession: 8
Date Collected: 00/00/2004
Date Examined: 12/3/2004
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Unknown) POSTMORTEM: (Unknown) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference number) TAG NO.: (5)
SPECIES: (Turtle: Green) AGE: (Unknown) SEX: (Unknown)

COLLECTION-SITE: (Le Meridien Hotel Bora Bora) AREA: (Tahiti) STATE: (Departement Outre Mer) COUNTRY: (France)

HISTORY:

External/Internal

EXTERNAL:

INTERNAL:

PRELIMINARY DIAGNOSIS: Undetermined.

Samples

SECIMENS RECEIVED: Tissue-Frozen.

Laboratory Results

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Not necropsied	()	()	()	(B00010)	()	()

Diagnostic findings may not be published without the knowledge and consent of the pathologist. Milt Code: (No code)