

DIAGNOSTIC CASE REPORT

U. S. GEOLOGICAL SURVEY-BIOLOGICAL RESOURCES DIVISION
NATIONAL WILDLIFE HEALTH CENTER-HONOLULU FIELD STATION
P. O. BOX 50167, 300 ALA MOANA BLVD., Rm. 8-132
HONOLULU, HAWAII 96850
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Case Number: 25851

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Species submitted (n):

Turtle: Green (4)
Turtle: Hawksbill (2)
Turtle: Leatherback (1)
Turtle: Olive Ridley (11)

SPECIMENS SUBMITTED: Carcass-Thawed

These longline turtles originated from the north and south Pacific as bycatch and were collected between April 2018 and February 2020.

Acc	Date_Coll	Animal	Age	Sex	TagNo	Diagnosis
1	9/8/2018	Turtle: Olive Ridle	Adult	Male	AS0231set1	Forced submergenc
2	8/14/2018	Turtle: Olive Ridle	Subadult	Male	AS0230set2	Forced submergenc
3	12/5/2019	Turtle: Olive Ridle	Subadult	Female	LL6932set7	Forced submergenc
4	7/17/2019	Turtle: Olive Ridle	Subadult	Male	LL6800set1	Forced submergenc
5	9/2/2019	Turtle: Olive Ridle	Subadult	Male	LL6843set1	Forced submergenc
6	2/10/2020	Turtle: Olive Ridle	Adult	Male	LL6989set1	Forced submergenc
7	8/21/2019	Turtle: Olive Ridle	Immature	Female	LL6826set9	Forced submergenc
8	7/31/2019	Turtle: Olive Ridle	Adult	Female	LL6802set1	Forced submergenc
9	10/20/2019	Turtle: Olive Ridle	Adult	Female	LL6883set8	Forced submergenc
10	9/16/2019	Turtle: Olive Ridle	Immature	Male	LL6853set7	Forced submergenc
11	5/7/2019	Turtle: Green	Immature	Male	AS0239set3	Forced submergenc
12	8/8/2019	Turtle: Olive Ridle	Subadult	Female	LL6811set1	Forced submergenc
13	4/23/2018	Turtle: Green	Immature	Male	AS0226set2	Forced submergenc
14	5/24/2018	Turtle: Hawksbill	Immature	Male	AS0228set2	Forced submergenc
15	6/5/2018	Turtle: Hawksbill	Immature	Female	AS0228set3	Forced submergenc
16	8/4/2019	Turtle: Green	Immature	Female	AS0241set3	Forced submergenc
17	4/29/2019	Turtle: Green	Immature	Unknown	AS0239set2	Forced submergenc
18	2/27/2019	Turtle: Leatherback	Immature	Female	AS0237set2	Forced submergenc

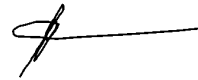
Comments: Nine turtles from the North Pacific (all olive ridleys) and 9 from the South Pacific (4 greens, 2 hawksbills, 1 leatherback, and 2 olive ridleys) were necropsied. Longline bait was seen in the esophagus of 7 of 11 (64%) olive ridleys, 3 of 4 greens (75%) and 1 of 2 hawksbills (50%). Females comprised 1 of 4 (25%) greens, 1 of 2 (50%) hawksbills, and 5 of 11 (45%) olive ridleys. One green (25%) was in good body condition with the remainder in fair to poor body condition. Both hawksbills were in poor body condition. The leatherback was in good body condition. Eight (72%) olive ridleys were in good to excellent body condition with the remainder in fair or poor body condition. One olive ridley was hooked in the right front flipper with the remainder hooked in the mouth. The leatherback was hooked in the right shoulder. Hawksbills were hooked in the left front flipper or mouth. Two greens were hooked in the mouth, one in the left and one on the right front flipper. The most significant histology findings regardless of species were varying degrees of fluid and cell accumulation in collapsed airways and cavities (air bubbles) of varying sizes in solid organs (liver, kidney, spleen). Unlike earlier necropsies, no evidence kidney inflammation associated with Salmonella in olive ridleys.

Management: Please see NOAA guidelines for mitigation of longline bycatch.

Report Date (mm/dd/yyyy): 9/27/2022

Necropsy report: Enclosed

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:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 1
Date Collected: 9/8/2018
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0231set16)
SPECIES: (Turtle: Olive Ridley) AGE: (Adult) SEX: (Male)
MORPHOMETRICS: Weight carcass (22.7 kg), Straight carapace length (60 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-15.3900°S, -170.0583°W) on 8 September 2018. Stranding information - AS0231, Set 16. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Kidney (B); Spleen, Liver (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are partially filled with homogenous pink material.

All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 2
Date Collected: 8/14/2018
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0230set25)
SPECIES: (Turtle: Olive Ridley) AGE: (Subadult) SEX: (Male)
MORPHOMETRICS: Weight carcass (18.7 kg), Straight carapace length (52.3 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-15.9233°S, -171.1183°W) on 14 August 2018. Stranding information - AS0230, Set 25. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL:

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Liver, Kidney (B); Spleen, Heart (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Small airways contain large amounts of pink material and smaller amounts of sloughed cells.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

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National Oceanic and Atmospheric
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1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 3
Date Collected: 12/5/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6932set7)
SPECIES: (Turtle: Olive Ridley) AGE: (Subadult) SEX: (Female)
MORPHOMETRICS: Weight carcass (21.1 kg), Straight carapace length (57 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (23.8633°N, -151.3650°W) on 5 December 2019. Stranding information - LL6932, Set 7. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: Two bait are found in the esophagus and stomach.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Heart, Liver, Spleen (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are partially filled with homogenous pink material.

Liver: Multiple variably sized cavities.

Kidney: Multiple variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	() () () (FY2220) () ()

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

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National Oceanic and Atmospheric
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1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 4
Date Collected: 7/17/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Excellent) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6800set1)
SPECIES: (Turtle: Olive Ridley) AGE: (Subadult) SEX: (Male)
MORPHOMETRICS: Weight carcass (25.4 kg), Straight carapace length (56.3 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (14.3283°N, -155.1167°W) on 17 July 2019. Stranding information - LL6800, Set 1. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus and one bait is found in the stomach.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Heart, Liver, Spleen (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are partially filled with homogenous pink material and occasional cell debris.

Spleen: Three nidi of necrotic debris with giant cells.

Kidney: Multiple variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link	
1. Forced submergence	()	()	(FY2220)	()

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
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1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 5
Date Collected: 9/2/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Poor) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6843set1)
SPECIES: (Turtle: Olive Ridley) AGE: (Subadult) SEX: (Male)
MORPHOMETRICS: Weight carcass (20.6 kg), Straight carapace length (55.9 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (24.4267°N, -140.8667°W) on 2 September 2019. Stranding information - LL6843, Set 1. NIST samples were collected.

External/Internal

EXTERNAL: Animal was hooked through the right tongue and glottis.
INTERNAL: There is subgular hemorrhage. One bait is found in the esophagus.
PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Liver, Heart (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are partially filled with homogenous pink material and occasional cell debris.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

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National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 6
Date Collected: 2/10/2020
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6989set12)
SPECIES: (Turtle: Olive Ridley) AGE: (Adult) SEX: (Male)
MORPHOMETRICS: Weight carcass (24.2 kg), Straight carapace length (59.7 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (25.9167°N, -154.1467°W) on 10 February 2020. Stranding information - L6989, Set 12. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Liver, Heart (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are partially filled with homogenous pink material and occasional cell debris.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

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1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 7
Date Collected: 8/21/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Fair) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6826set9)
SPECIES: (Turtle: Olive Ridley) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (16.2 kg), Straight carapace length (49 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (14.6517°N, -157.4433°W) on 21 August 2019. Stranding information - LL6826, Set 9. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: No bait found.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Spleen, Liver, Heart (B); Kidney, Heart (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are partially filled with homogenous pink material and occasional cell debris.

Liver: Multiple variably sized cavities.

Spleen: Multiple variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 8
Date Collected: 7/31/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Fair) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6802set13)
SPECIES: (Turtle: Olive Ridley) AGE: (Adult) SEX: (Female)
MORPHOMETRICS: Weight carcass (26.2 kg), Straight carapace length (60.1 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (18.0150°N, -161.7117°W) on 31 July 2019. Stranding information - LL6802, Set 13. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: The animal is hooked in the proximal esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Heart, Liver, Spleen (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Liver: Multiple variably sized cavities.

Kidney: Multiple variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	() (FY2220)	()

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 9
Date Collected: 10/20/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6883set8)
SPECIES: (Turtle: Olive Ridley) AGE: (Adult) SEX: (Female)
MORPHOMETRICS: Weight carcass (29.3 kg), Straight carapace length (59.9 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (24.8500°N, -157.4683°W) on 20 October 2019. Stranding information - LL6883, Set 8. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus

PRELIMINARY DIAGNOSIS: Drowning.

Samples

HISTO: Lung (A); Heart, Liver, Spleen (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Liver: Variably sized cavities.

Kidney: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

25851-9
pathologist.

Page 2 of 2
Milt Code: (Drowned)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 10
Date Collected: 9/16/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6853set7)
SPECIES: (Turtle: Olive Ridley) AGE: (Immature) SEX: (Male)
MORPHOMETRICS: Weight carcass (12.1 kg), Straight carapace length (45.6 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (13.7467°N, -165.4217°W) on 16 September 2019. Stranding information - LL6853, Set 7. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: No bait found.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Liver, Heart (B); Spleen, Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Kidney: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

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National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 11
Date Collected: 5/7/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Fair) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0239set33)
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Male)
MORPHOMETRICS: Weight carcass (3.8 kg), Straight carapace length (31.1 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-12.5350°S, -168.6933°W) on 7 May 2019. Stranding information - AS0239, Set 33. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL:

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Liver, Heart (B); Spleen, Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Liver: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

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Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 12
Date Collected: 8/8/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (LL6811set11)
SPECIES: (Turtle: Olive Ridley) AGE: (Subadult) SEX: (Female)
MORPHOMETRICS: Weight carcass (20.3 kg), Straight carapace length (53.8 cm).
COLLECTION-SITE: (Open Ocean-North Pacific) AREA: (North Pacific) STATE: (North Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the North Pacific (14.5733°N, -158.3217°W) on 8 August 2019. Stranding information - LL6811, Set 11. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Liver, Heart (B); Spleen, Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Liver: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

N A T I O N A L W I L D L I F E H E A L T H C E N T E R
N E C R O P S Y R E P O R T

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 13
Date Collected: 4/23/2018
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Poor) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0226set27)
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Male)
MORPHOMETRICS: Weight carcass (10.7 kg), Straight carapace length (42.7 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-16.2983°S, -170.6067°W) on 23 April 2018. Stranding information -AS0226, Set 27. NIST samples were collected.

External/Internal

EXTERNAL: Turtle was hooked through the left canthus.
INTERNAL: There is one bait in the esophagus.
PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Liver, Kidney (A); Kidney (B).

Laboratory Results

HISTOPATHOLOGY
Liver: Variably sized cavities.
All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)
Diagnosis Topog Morpho Etiol Funct Dis Link
1. Forced submergence () () () (FY2220) () ()
Diagnostic findings may not be published without the knowledge and consent of the pathologist.
Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 14
Date Collected: 5/24/2018
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Poor) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0228set25)
SPECIES: (Turtle: Hawksbill) AGE: (Immature) SEX: (Male)
MORPHOMETRICS: Weight carcass (5.5 kg), Straight carapace length (38.8 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-15.8017°S, -170.3883°W) on 24 May 1 2018. Stranding information -AS0228, Set 25. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait was found in the esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Liver, Heart (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Kidney: Variably sized cavities.

Liver: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link			
1. Forced submergence	()	()	(FY2220)	()	()

25851-14

Page 2 of 2

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

Milt Code: (Drowned)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 15
Date Collected: 6/5/2018
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Fair) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0228set36)
SPECIES: (Turtle: Hawksbill) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (3.5 kg), Straight carapace length (32.2 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-15.6983°S, -170.8917°W) on 5 Junel 2018. Stranding information -AS0228, Set 36. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: No bait are found.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Liver, Heart (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Kidney: Variably sized cavities.

Liver: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link	
1. Forced submergence	()	()	(FY2220)	()

25851-15

Page 2 of 2

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

Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 16
Date Collected: 8/4/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0241set3)
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (11.3 kg), Straight carapace length (42.8 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-12.1283°S, -170.9750°W) on 4 August 2019. Stranding information -AS0241, Set 3. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Heart, Liver, Spleen (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

Liver: Variably sized cavities.

All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)

Diagnosis Topog Morpho Etiol Funct Dis Link
1. Forced submergence () () () (FY2220) () ()
Diagnostic findings may not be published without the knowledge and consent of the pathologist. Milt Code: (Drowned)

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 17
Date Collected: 4/29/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Poor) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0239set26)
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Unknown)
MORPHOMETRICS: Weight carcass (8.1 kg), Straight carapace length (40.3 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-15.9867°S, -167.7767°W) on 29 April 2019. Stranding information -AS0239, Set 26. NIST samples were collected.

External/Internal

EXTERNAL:

INTERNAL: One bait is found in the esophagus.

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.

HISTO: Lung (A); Heart, Liver, Spleen (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed.

All other Organs: No remarkable lesions are seen.

COMMENTS: None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)

**NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT**

Submitter Name:

Dr. Summer Martin
National Oceanic and Atmospheric
Administration
1845 Wasp Blvd Bldg 176
Honolulu, Hawaii 96818
United States

Case: 25851
Accession: 18
Date Collected: 2/27/2019
Date Examined: 6/24/2022
Prosector: T. M. Work
Pathologist: T. M. Work

Signalment-Morphometrics-History

CONDITION: (Good) POSTMORTEM: (Good) EUTHANASIA: (Not euthanized)
TAG TYPE: (Reference Number) TAG NO.: (AS0237set24)
SPECIES: (Turtle: Leatherback) AGE: (Immature) SEX: (Female)
MORPHOMETRICS: Weight carcass (10.4 kg), Straight carapace length (46.9 cm).
COLLECTION-SITE: (Open Ocean-South Pacific) AREA: (South Pacific) STATE: (South Pacific) COUNTRY: (United States)
HISTORY: This turtle was hooked during a longline fishing expedition in the South Pacific (-12.5733°S, -169.4017°W) on 27 February 2019. Stranding information - AS0237, Set 24. NIST samples were collected.

External/Internal

EXTERNAL: The turtle is hooked in the right shoulder.

INTERNAL:

PRELIMINARY DIAGNOSIS: Drowning.

Samples

SECIMENS RECEIVED: Carcass-Thawed.
HISTO: Lung (A); Liver, Heart (B); Kidney (C).

Laboratory Results

HISTOPATHOLOGY

Lung: Airways are partially collapsed, and ediculae are occasionally filled with homogenous pink material and occasional cell debris.

All other Organs: No remarkable lesions are seen.

COMMENTS:None

Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Forced submergence	()	()	()	(FY2220)	()	()

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

Milt Code: (Drowned)