

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1301 Capture ID: TBC092 Assessed by: de Wit
 Animal Name: Peak Date: 19 Dec 2013 Gender: (M) / F
 Total length: 299 cm Weight: 1066 kg (1b) Capture Method: open water boat
 Location: Brevard-ouc Event: FPL tagging Air temp: 23 (C) F Water temp: 24 (C) F
 Time notes: Initiated 9:25 Net Out 9:25 On Deck 9:30 Start Evaluation 9:50
 First blood sample 10:00 Follow-up blood sample _____ Release 10:46

BODY CONDITION	Score:	1	2	3	4	5
		Emaciated	Thin	Normal	Fat	Obese
	Peanut shaped head?	Y / <u>(N)</u>		Ribs visible?	Y / <u>(N)</u>	
	Ventrum:			<u>(Rounded)</u> / Flat / Concave / Ventral Folds		
Comments: (note areas, degree of weight loss)						

ACTIVITY	At Capture	<u>(High)</u> / Medium / Low
	During Work-up	Active / <u>(Calm)</u> / Lethargic
Comments:		

THR SUMMARY	Oral temperature <u>36.1</u> (C) / F	Respiratory rate <u>6-13</u> per 5 min.
(see THR sheet)		Heart rate <u>56</u> per 1 min.
Body temp. support:	Y / <u>(N)</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	<u>NGL</u>	
Eyes	<u>NGL</u>	
Ears	<u>NGL</u>	

INTEGUMENT	Cold stress: Lesions? <u>(Y)</u> / N	Score? Head: <u>0</u> Trunk: <u>1</u> Fluke: <u>0</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		<u>G, L, A</u>
B = Bleaching	Thickened epidermis? <u>(Y)</u> / N	<u>fringe like on fluke margin</u>
G = Gray mottling	Cobblestone epidermis? Y / <u>(N)</u>	
S = Skin sloughing	Watercraft scars? <u>(Y)</u> / N	
A = Abscess	Watercraft wounds? Y / <u>(N)</u>	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? <u>(Y)</u> / N	<u>thin green</u>
	Other epibiota? Y / <u>(N)</u>	

Flippers: (Describe abnormalities or else NGL)
NGL (L) flipper abrasions from net

Fluke: (Describe abnormalities or else NGL)
Distinct mutilation @ 4 o'clock w flap sticking up dorsally Fringe-like epidermis on some of margin

Comments:
2 small abscess lesions on (R) lateral aspect. otherwise grey/bleached spots on body. some have pitted in center. Fresh scrapes from capture on mid-dorsum. Lesion @ umbilicus

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

	Initial	Follow-up		Initial	Follow-up
Time:	34.8				
Temp:	34.8				
R rate:			HCO ₃ :	18.2	
pH:	7.367 7.090		TCO ₂ :	20	
PO ₂ :	116 10 ³		sO ₂ :	95	
PCO ₂ :	65.6 59.5		Lact.:	720	
BEecf:	-11		Gluc.:	121	

Comments: (note water use to stimulate resp. rate)

water-induced respirations

REPRODUCTIONLactating? Y / NVulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description: capricious, moist, poorly formed, well-digested, seem to have algal particles in itUrine? Y / N

description: olive green feces

DIAGNOSTIC SAMPLES COLLECTED**MEDICATIONS ADMINISTERED****COMMENTS**

capture: some struggle to get head on-board

Great-looking male in very good condition, lesions are minor.

Blood pH ↓, lactate ↑↑ - metabolic acidosis, capture-related

CBC: MCHC slightly ↓ - regenerative anemia, subtle iron deficiency?

Biochemistry: electrolytes disturbance, appears pre-renal

Ddx - diarrhea → may be supported by finding of rel. low bicarb as well.

- dehydration

- hypertonic

Conclusion:

triglycerides ↑ (postprandial / pancreatitis / metabolic disorder?)
Blood changes caused by diarrhea / salinity changes? under investigation
previous bleach spill does not play a role probably.

Fat measurements do not match the excellent body condition observed based on shape?

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1302 Capture ID: TBC093 Assessed by: de Wit
 Animal Name: South breaker Date: 10 Dec 2013 Gender: (M) / F
 Total length: 286 cm Weight: 1014 kg (lb) Capture Method: open water boat set
 Location: Brevard-ouc Event: FPL tagging Air temp: 24 (C) F Water temp: 24 (C) F
 Time notes: Initiated 10:18 Net Out 10:18 On Deck 10:22 Start Evaluation 10:35
 First blood sample 10:49 Follow-up blood sample _____ Release 11:25

BODY CONDITION	Score: 1 Emaciated	2 Thin	(3) Normal	4 Fat	5 Obese
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Peanut shaped head?	Y / (N)	Ribs visible?	Y / (N)
Ventrum:	Rounded / (Flat) / Concave / Ventral Folds		

Comments: (note areas, degree of weight loss) some extra skin on ventrum

ACTIVITY	At Capture	(High) / Medium / Low
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	During Work-up	Active / (Calm) / Lethargic
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Comments:

THR SUMMARY	Oral temperature <u>34.3</u> (C) / F	Respiratory rate <u>3-7</u> per 5 min.
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(see THR sheet)		Heart rate <u>48-52</u> per 1 min.
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Body temp. support: Y / (N) method: Shade / Tent / Heater / Blanket / Water

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	NGL	
Eyes	NGL	
Ears	NGL	

INTEGUMENT	Cold stress: Lesions? (Y) / N	Score? Head: <u>1</u> Trunk: <u>0</u> Fluke: <u>0</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:	G	G, L

B = Bleaching	Thickened epidermis?	Y / (N)
G = Gray mottling	Cobblestone epidermis?	(Y) / N
S = Skin sloughing	Watercraft scars?	(Y) / N
A = Abscess	Watercraft wounds?	Y / (N)
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat?	Y / (N)
	Other epibiota?	Y (N) <u>but barnacle scars</u>

Flippers: (Describe abnormalities or else NGL)
bleached / grey spots, some assoc w/ superficial lesions

Fluke: (Describe abnormalities or else NGL)
irregular fluke margin - previous cold stress (well-healed)

Comments:

RESPIRATORY	Depth of respirations	superficial / <u>deep</u> bi-lateral / deep uni-lateral					
	Inspiration pattern	<u>single</u> / double					
	Symmetry of body	<u>symmetric</u> / asymmetric					
Auscultation: —							
O ₂ supplementation:		<u>Yes</u> / No		CO ₂ monitoring:		<u>Yes</u> / No	
I-stat results		Initial	Follow-up		Initial	Follow-up	
(CG8 electrolyte results on I-stat sheet)	Time:						
	Temp:	37.0	34.8				
	R rate:			HCO ₃ :	30.3		
	pH:	7.21	7.24	TCO ₂ :	41		
	PO ₂ :	29	34	sO ₂ :	59		
	PCO ₂ :	94.2	85.7	Lact.:	10.24		
	BEecf:	11		Gluc.:	68		
Comments: (note water use to stimulate resp. rate) water-induced respirations							
REPRODUCTION	Lactating?	Y / N					
	Vulva swollen?	Y / N					
Comments:							
EXCRETA	Feces?	Y / <u>N</u>	description:				
	Urine?	Y / <u>N</u>	description:				
DIAGNOSTIC SAMPLES COLLECTED							
MEDICATIONS ADMINISTERED							
COMMENTS							
Manatee looks ok in condition, flat ventrum so GI tract may not be optimally filled (also produced no feces). Fat measurements very good. Skin looks ok, cold exposure lesions minor, not significant. Fluke is scarred from previous cold stress. Blood mostly unremarkable, except SAAT. Possibly association with speculated fasting?							

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1303 Capture ID: TBC004 Assessed by: de Wit
 Animal Name: Nopep Date: 10 Dec 13 Gender: (M) / F
 Total length: 327 cm Weight: 1462 kg (1b) Capture Method: open water boat set
 Location: Brevard ovc Event: FPL tagging Air temp: 23 (C) F Water temp: 25 (C) F
 Time notes: Initiated 11:10 Net Out 11:10 On Deck 11:15 Start Evaluation 11:35
 First blood sample 11:42 Follow-up blood sample _____ Release 12:31

BODY CONDITION	Score:	1	2	3	<u>(4)</u>	5
		Emaciated	Thin	Normal	Fat	Obese
	Peanut shaped head?	Y / <u>(N)</u>	Ribs visible? Y / <u>(N)</u>			
	Ventrum:	<u>(Rounded)</u> / Flat / Concave / Ventral Folds				
Comments:	(note areas, degree of weight loss)					

ACTIVITY	At Capture	<u>(High)</u> / Medium / Low
	During Work-up	Active / <u>(Calm)</u> / Lethargic
Comments:		

THR SUMMARY	Oral temperature <u>35.6</u> <u>(C)</u> / F	Respiratory rate <u>7-10</u> per 5 min.
(see THR sheet)		Heart rate <u>56</u> per 1 min.
Body temp. support:	Y / <u>(N)</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD		Describe any abnormalities or NGL (no gross lesions)
	Nares	<u>NGL</u>
	Eyes	<u>NGL</u>
	Ears	<u>NGL</u>

INTEGUMENT	Cold stress: Lesions? <u>(Y)</u> / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		<u>L, G</u> <u>L, G</u> <u>L, G</u>

B = Bleaching	Thickened epidermis?	Y / <u>(N)</u>	
G = Gray mottling	Cobblestone epidermis?	Y / <u>(N)</u>	
S = Skin sloughing	Watercraft scars?	<u>(Y)</u> / N	
A = Abscess	Watercraft wounds?	Y / <u>(N)</u>	number:
L = Lesion, superficial	- stage of healing		
Ld = Lesion, deep	- appearance		superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat?	<u>(Y)</u> / N	<u>thin brown</u>
	Other epibiota?	<u>(Y)</u> / N	<u>few small barnacles & barnacle scars.</u>

Flippers: (Describe abnormalities or else NGL)
damage of flipper rail (partial rupture) @ flipper from capture

Fluke: (Describe abnormalities or else NGL)
abrasions from capture

Comments: abrasions on body from capture cs lesions scattered, small circular, some open in center.

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

	Initial	Follow-up		Initial	Follow-up
Time:					
Temp:	39.1				
R rate:			HCO ₃ :	15.8	17.9
pH:	7.43	7.48	TCO ₂ :	18	20
PO ₂ :	91	47	sO ₂ :	89	58
PCO ₂ :	76.2	74.6	Lact.:	20.0	20
BEecf:	-16	-14	Gluc.:	91	

Comments: (note water use to stimulate resp. rate)

water-induced respirations

REPRODUCTIONLactating? Y / NVulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description: moist, well formed, homogeneous, olive greenUrine? Y / N description: clear yellow-white (feces not voluminous)**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED**

15 mL 2.5 mg/mL vit E/selenium im R. peduncle (0.06 mg/kg)

COMMENTS

Manatee in great body condition. Skin has significant cold exposure signs. (though lesions are mild)
 Blood pH ↓↓, lactate ↑↑ → metabolic acidosis. Started to correct a bit @ second sample.

Known Port. Everglades Tm based on scars.

Blood CBC: MCHC slightly ↓, subtle anemia? White blood cells also ↓ due to low heterophils, but no left-shift.

Biochemistry - electrolytes disturbance, total protein ↑
 diarrhea/dehydration/hypertonic

See CBC1301

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1304 Capture ID: TBC095 Assessed by: de Wit
 Animal Name: Circuit Date: 10 Dec 2013 Gender: (M) / F
 Total length: 310 cm Weight: 1132 kg (1b) Capture Method: open-water boat set
 Location: Brevard Co. FL Event: FPL tagging Air temp: 23 (C) / F Water temp: 25 (C) / F
 Time notes: Initiated 11:53 Net Out 11:53 On Deck 11:56 Start Evaluation 12:12
 First blood sample 12:23 Follow-up blood sample _____ Release 12:59

BODY CONDITION	Score:	1	2	3	4	5
		Emaciated	Thin	Normal	Fat	Obese
	Peanut shaped head?	Y / <u>(N)</u>	Ribs visible?	Y / <u>(N)</u>		
	Ventrum:	<u>(Rounded)</u> / Flat / Concave / Ventral Folds				
Comments:	(note areas, degree of weight loss)					

ACTIVITY	At Capture	<u>(High)</u> / Medium / Low
	During Work-up	Active / <u>(Calm)</u> / Lethargic
Comments:	<u>rolled over many times during capture on boat.</u>	

THR SUMMARY	Oral temperature <u>33.7</u> (°C) / F	Respiratory rate <u>7-12</u> per 5 min.
(see THR sheet)		Heart rate <u>60-68</u> per 1 min.
Body temp. support:	Y / <u>(N)</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	<u>NGL</u>	
Eyes	<u>NGL</u>	
Ears	<u>NGL</u>	

INTEGUMENT	Cold stress: Lesions? <u>(Y)</u> / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:	<u>B</u>	<u>B, L</u> <u>G</u> <u>G</u>
B = Bleaching	Thickened epidermis? Y / <u>(N)</u>	
G = Gray mottling	Cobblestone epidermis? Y / <u>(N)</u>	
S = Skin sloughing	Watercraft scars? <u>(Y)</u> / N	
A = Abscess	Watercraft wounds? Y / <u>(N)</u>	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? <u>(Y)</u> / N	<u>thin brown</u>
	Other epibiota? <u>(Y)</u> / N	<u>barnacles fluke, few on body</u>

Flippers: (Describe abnormalities or else NGL)
cold exposure most significant on flippers, extensive bleaching

Fluke: (Describe abnormalities or else NGL)
margin abrasions from capture

Comments: capture abrasions face, body

Manatee ID: C13C1304

Capture ID: T13C095

Date: 10 Dec 2013

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral					
	Inspiration pattern	<u>single</u> / double					
	Symmetry of body	<u>symmetric</u> / asymmetric					
Auscultation: —							
O ₂ supplementation:		<u>Yes</u> / No		CO ₂ monitoring: Yes / No			
I-stat results		Initial	Follow-up		Initial	Follow-up	
(CG8 electrolyte results on I-stat sheet)	Time:	1219					
	Temp:	33.1					
	R rate:			HCO ₃ :	26.7		
	pH:	7.023 / 7.070		TCO ₂ :	24		
	PO ₂ :	46		sO ₂ :	59		
	PCO ₂ :	85.7 / 72.3		Lact.:	15.5		
	BEecf:	22.3 / 3.5		Gluc.:	67		
Comments: (note water use to stimulate resp. rate) water-induced respirations							
REPRODUCTION	Lactating?	<u>Y</u> / N					
	Vulva swollen?	Y / <u>N</u>					
Comments:							
EXCRETA	Feces?	<u>Y</u> / N	description: moist, well-formed, firm, well-digested,				
	Urine?	Y / <u>N</u>	description: given				
DIAGNOSTIC SAMPLES COLLECTED							
MEDICATIONS ADMINISTERED							
COMMENTS							
Manatee in good condition. Skin cold exposure findings mild. Blood pH ↓, lactate ↑ - metabolic acidosis CBC: MCHC slightly ↓ subtle anemia? biochemistry: chloride slightly ↑ rest electrolytes within ref; however, see discussion C13C1301.							

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1305 Capture ID: TBC096 Assessed by: de Wit
 Animal Name: Switch Date: 10 Dec '13 Gender: M / F
 Total length: 269 cm Weight: 808 kg (lb) Capture Method: open water boat set
 Location: Brevard ovc Event: FPL tagging Air temp: 25 C F Water temp: 25 C F
 Time notes: Initiated 13:22 Net Out 13:22 On Deck 13:26 Start Evaluation 13:46
 First blood sample 13:51 Follow-up blood sample _____ Release 14:22

BODY CONDITION	Score: 1 Emaciated	2 Thin	3 Normal	4 Fat	5 Obese
	Peanut shaped head? Y / <u>N</u>		Ribs visible? Y / <u>N</u>		
	Ventrums:		Rounded / <u>Flat</u> / Concave / Ventral Folds		
Comments:	(note areas, degree of weight loss) <u>no extra skin on ventrum, just not round / filled</u>				

ACTIVITY	At Capture	<u>High</u> / Medium / Low
	During Work-up	Active / <u>Calm</u> / Lethargic
Comments:		

THR SUMMARY	Oral temperature <u>34.3</u> °C / F	Respiratory rate <u>3-9</u> per 5 min.
(see THR sheet)		Heart rate <u>60</u> per 1 min.
Body temp. support:	Y / <u>N</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	<u>NGL</u>	
Eyes	<u>NGL</u>	
Ears	<u>NGL</u>	

INTEGUMENT	Cold stress: Lesions? <u>Y</u> / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:	<u>G, L</u>	<u>B</u> <u>G, L</u> <u>L</u>
B = Bleaching	Thickened epidermis? Y / <u>N</u>	
G = Gray mottling	Cobblestone epidermis? Y / <u>N</u>	
S = Skin sloughing	Watercraft scars? <u>Y</u> / N	
A = Abscess	Watercraft wounds? Y / <u>N</u>	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? <u>Y</u> / N	<u>thin brown</u>
	Other epibiota? Y / <u>N</u>	

Flippers: (Describe abnormalities or else NGL)
mild lesions & bleaching

Fluke: (Describe abnormalities or else NGL)
v. few circular lesions

Comments: CS exposure mottling & lesions v mild

Manatee ID: CB01305Capture ID: TBC096Date: 10 Dec 13

RESPIRATORY	Depth of respirations	superficial / <u>deep</u> bi-lateral / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

		Initial	Follow-up		Initial	Follow-up
	Time:	<u>1350</u>				
	Temp:	<u>33.1</u>				
	R rate:			HCO ₃ :	<u>34.9</u>	
	pH:	<u>7.192</u>	<u>7.244</u>	TCO ₂ :	<u>38</u>	
	PO ₂ :	<u>34</u>	<u>26</u>	sO ₂ :	<u>48</u>	
	PCO ₂ :	<u>91.1</u>	<u>76.8</u>	Lact.:	<u>7.14</u>	
	BEecf:	<u>1</u>		Gluc.:	<u>57</u>	

Comments:

(note water use to stimulate resp. rate)

water-induced respirations, does not breathe on his own**REPRODUCTION**Lactating? Y / NVulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description:moist, well-formed, well-digested, brown-greenUrine? Y / N description:clear yellow**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Manatee looks good, but not completely round ventrum, and skin has significant cold exposure findings (though lesions are mild).

Blood CBC: MCHC slightly ↓ subtle anemia?

biochemistry: chloride slightly ↑; rest electrolytes within refs.

see discussion CB01301.

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1306 Capture ID: T13C097 Assessed by: de Wit
 Animal Name: Snow Surge Date: 10 Dec 2013 Gender: (M) / F
 Total length: 277 cm Weight: 964 kg / (lb) Capture Method: open water boat set
 Location: Brevard CWC Event: FPL tagging Air temp: 24 (C) F Water temp: 25 (C) F
 Time notes: Initiated 13:58 Net Out 13:58 On Deck 14:02 Start Evaluation 14:27
 First blood sample 14:37 Follow-up blood sample _____ Release 15:03

BODY CONDITION	Score:	1	2	<u>(3)</u>	4	5
		Emaciated	Thin	Normal	Fat	Obese
	Peanut shaped head?	Y / <u>(N)</u>	Ribs visible?	Y / <u>(N)</u>		
	Ventrum:	<u>(Rounded)</u> / Flat / Concave / Ventral Folds				
Comments:	(note areas, degree of weight loss)					

ACTIVITY	At Capture	<u>(High)</u> / Medium / Low
	During Work-up	Active / <u>(Calm)</u> / Lethargic
Comments:		

THR SUMMARY	Oral temperature <u>34</u> <u>(C)</u> F	Respiratory rate <u>6-9</u> per 5 min.
(see THR sheet)		Heart rate <u>78</u> per 1 min.
Body temp. support:	Y / <u>(N)</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares:	NGL	
Eyes	NGL	
Ears	NGL	

INTEGUMENT	Cold stress: Lesions? <u>(Y)</u> / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		G, B G, B G, L G, L
B = Bleaching	Thickened epidermis? Y / <u>(N)</u>	
G = Gray mottling	Cobblestone epidermis? Y / <u>(N)</u>	
S = Skin sloughing	Watercraft scars? <u>(Y)</u> / N	
A = Abscess	Watercraft wounds? Y / <u>(N)</u>	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? <u>(Y)</u> / N	thin brown
	Other epibiota? Y / <u>(N)</u>	

Flippers: (Describe abnormalities or else NGL)
bleached epidermis prox flippers & around axillae

Fluke: (Describe abnormalities or else NGL)
v. few circular superficial lesions

Comments:
few abrasions from net

Manatee ID: C3C1306

Capture ID: TBC097

Date: 10 Dec 2013

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

		Initial	Follow-up		Initial	Follow-up
Time:		14.44				
Temp:		34.4				
R rate:				HCO ₃ :	26.5	
pH:	7.131	7.164		TCO ₂ :	29	
PO ₂ :	28	23		sO ₂ :	34	
PCO ₂ :	79.7	71.1		Lact.:	16.62	
BEecf:	-3			Gluc.:		

Comments: (note water use to stimulate resp. rate)

water induced respirations

REPRODUCTIONLactating? Y / NVulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description: moist, voluminous, well-digested, light brown-greenUrine? Y / N description:**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Manatee in good condition. Significant, mild findings of cold exposure in skin
 Lactate ↑, pH ↓.
 Blood CBC, biochemistry mostly unremarkable. For slightly elevated CL,
 see discussion C3C1301.

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1307 Capture ID: TBC098 Assessed by: de Wit
 Animal Name: Megawatt Date: 10 Dec 13 Gender: M / (F)
 Total length: 306 cm Weight: 1292 kg / (lb) Capture Method: open water boat set
 Location: Brevard OUC Event: FPL tagging Air temp: 23 (C) F Water temp: 25 (C) F
 Time notes: Initiated 15:08 Net Out 15:08 On Deck 15:12 Start Evaluation 15:45
 First blood sample 15:55 Follow-up blood sample _____ Release 16:36

BODY CONDITION	Score: 1 Emaciated	2 Thin	3 Normal	<u>(4)</u> Fat	5 Obese
	Peanut shaped head? Y / <u>(N)</u>		Ribs visible? Y / <u>(N)</u>		
	Ventrums:		<u>(Rounded)</u> / Flat / Concave / Ventral Folds		

Comments: (note areas, degree of weight loss)

ACTIVITY	At Capture	<u>(High)</u> / Medium / Low
	During Work-up	Active / <u>(Calm)</u> / Lethargic

Comments:

THR SUMMARY	Oral temperature <u>34.2</u> <u>(C)</u> / F	Respiratory rate <u>5-9</u> per 5 min.
(see THR sheet)		Heart rate <u>64-72</u> per 1 min.
Body temp. support:	Y / <u>(N)</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	<u>viscous clear mucus from (R) nares - micro + cyto</u>	
Eyes	<u>NGL</u>	
Ears	<u>NGL</u>	

INTEGUMENT	Cold stress: Lesions? <u>(Y)</u> / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:	<u>G</u>	<u>G, L</u> <u>G, L</u> <u>G, L</u>
B = Bleaching	Thickened epidermis? Y / <u>(N)</u>	
G = Gray mottling	Cobblestone epidermis? Y / <u>(N)</u>	
S = Skin sloughing	Watercraft scars? <u>(Y)</u> / N	
A = Abscess	Watercraft wounds? Y / <u>(N)</u>	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? <u>(Y)</u> / N	<u>v. thin brown</u>
	Other epibiota? <u>(Y)</u> / N	<u>barnacles</u>

Flippers: (Describe abnormalities or else NGL)
lightly bleached epidermis

Fluke: (Describe abnormalities or else NGL)
abrasions from capture fluke margin

Comments: Abrasions body from capture. Mostly grey mottling from cold exposure, some are pitted circular lesions @ shoulder area has (near numerous) healing lesions, trailing towards lateral aspect body

Manatee ID: C3C1307

Capture ID: TBC098

Date: 10 Dec 2013

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

	Initial	Follow-up		Initial	Follow-up
Time:	1602				
Temp:	31.8				
R rate:	27		HCO ₃ :	21.1	
pH:	7.016 7.079		TCO ₂ :	24	
PO ₂ :	43 30		sO ₂ :	54	
PCO ₂ :	32.6 65.8		Lact.:	19.4	
BEecf:	-10		Gluc.:	94	

Comments: (note water use to stimulate resp. rate)

water-induced respirations

REPRODUCTIONLactating? Y / NVulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description: moist, voluminous, well-digested, light brownUrine? Y / N description: green feces**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Manatee in great condition, skin has significant, mild findings of cold exposure.

Blood pH ↓, lactate ↑

CBC: Ht ↑, MCHC slightly ↓ subtle anemia, dehydration?

biochemistry: electrolytes disturbed, TPT

→ diarrhea / dehydration / hypertonic?

See C3C1301 discussion.

progesterone consistent w/ non-pregnant female

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBCL308 Capture ID: TBC099 Assessed by: de Wit
 Animal Name: Volta Date: 10 Dec 2013 Gender: (M) / F
 Total length: _____ cm Weight: _____ kg / lb Capture Method: open water boat set
 Location: Brevard OUC Event: FPL tagging Air temp: 23 (C) F Water temp: 24 (C) F
 Time notes: Initiated 16:00 Net Out 16:00 On Deck 16:04 Start Evaluation 16:25
 First blood sample 16:30 Follow-up blood sample _____ Release 17:09

BODY CONDITION	Score: 1 Emaciated	2 Thin	(3) Normal	4 Fat	5 Obese
	Peanut shaped head? Y / (N)		Ribs visible? Y / (N)		
	Ventrums:		(Rounded) / Flat / Concave / Ventral Folds		

Comments: (note areas, degree of weight loss)

ACTIVITY	At Capture	(High) / Medium / Low
	During Work-up	Active / (Calm) / Lethargic

Comments:

THR SUMMARY	Oral temperature <u>34.7</u> (C) / F	Respiratory rate <u>5-10</u> per 5 min.
(see THR sheet)		Heart rate <u>60-64</u> per 1 min.
Body temp. support:	Y / (N) method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	NGL	
Eyes	NGL	
Ears	NGL	

INTEGUMENT	Cold stress: Lesions? (Y) / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		B, G G, L G, L
B = Bleaching	Thickened epidermis? Y / (N)	
G = Gray mottling	Cobblestone epidermis? Y / (N)	
S = Skin sloughing	Watercraft scars? (Y) / N	
A = Abscess	Watercraft wounds? Y / (N)	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? Y / (N)	
	Other epibiota? (Y) / N	few barnacles

Flippers: (Describe abnormalities or else NGL)

NGL

Fluke: (Describe abnormalities or else NGL)

Grey mottling. few small circular lesions - some larger and swollen

Comments:

few circular cold exposure lesions body that are pitted in center, linear healing lesion (R) shoulder

Manatee ID: CBC1308

Capture ID: TBC099

Date: 10 Dec 2013

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

	Initial	Follow-up		Initial	Follow-up
Time:	16.24				
Temp:	34.7				
R rate:	7		HCO ₃ :	31.0	
pH:	7.134	7.164	TCO ₂ :	34	
PO ₂ :	30	27	sO ₂ :	37	
PCO ₂ :	92.2	83.4	Lact.:	13.45	
BEecf:	2		Gluc.:	77	

Comments: (note water use to stimulate resp. rate)

water induced respirations

REPRODUCTION

Lactating? Y / N

Vulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description: moist, well-formed, well-digested, sl fibrous,Urine? Y N description: light olive green**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Manatee in good condition, skin significant, mild findings of cold exposure.

Blood pH ↓, lactate ↑

CBC: H+ ↑ dehydration?

chemistry: electrolytes disturbed, TP ↑

→ diarrhea / dehydration / hypertonic?

See CBC1301 discussion.

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CB31309 Capture ID: TBC100 Assessed by: de Wit
 Animal Name: Chm Date: 11 Dec '13 Gender: M / (F)
 Total length: 306 cm Weight: 1366 kg / (lb) Capture Method: land-based boat set
 Location: Brevard ovc Event: FPL tagging Air temp: 22 (C) F Water temp: 24 (C) F
 Time notes: Initiated 9:46 Net Out 9:46 On Deck 9:52 Start Evaluation 10:06
 First blood sample 10:16 Follow-up blood sample _____ Release 10:59

BODY CONDITION	Score:	1	2	3	4	5
		Emaciated	Thin	Normal	Fat	Obese
	Peanut shaped head?	Y	(N)	Ribs visible?	Y	(N)
	Ventrum:	Rounded / Flat / Concave / Ventral Folds				
Comments:	(note areas, degree of weight loss)					

ACTIVITY	At Capture	High	Medium	Low
	During Work-up	Active	(Calm)	Lethargic
Comments:				

THR SUMMARY	Oral temperature	<u>34.5</u> <u>(C)</u> / F	Respiratory rate	<u>7-15</u> per 5 min.
(see THR sheet)			Heart rate	<u>56</u> per 1 min.
Body temp. support:	Y	(N)	method:	Shade / Tent / Heater / Blanket / Water

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	NGL	
Eyes	NGL	
Ears	NGL	

INTEGUMENT	Cold stress: Lesions?	(Y) / (N)	Score? Head:	<u>1</u>	Trunk:	<u>1</u>	Fluke:	<u>1</u>
CS Location:	Nose	Lips	Other Head	Flippers	Trunk	Fluke		
CS Appearance:			B		G, L	G		
B = Bleaching	Thickened epidermis?	Y	(N)					
G = Gray mottling	Cobblestone epidermis?	Y	(N)	but very few loose patches of brown epidermis that are about 10-15 cm on dorsum.				
S = Skin sloughing	Watercraft scars?	(Y) / (N)						
A = Abscess	Watercraft wounds?	Y	(N)	number:				
L = Lesion, superficial	- stage of healing							
Ld = Lesion, deep	- appearance	superficial / penetrating / both						
Lu = Lesion, ulcerating	Algal mat?	Y	(N)					
	Other epibiota?	(Y) / (N)	barnacles					

Flippers: (Describe abnormalities or else NGL)
NGL

Fluke: (Describe abnormalities or else NGL)
abrasions on fluke margin from capture.

Comments:

Manatee ID: CBC1309Capture ID: TBC100Date: 11 Dec 13

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O ₂ supplementation:		Yes / No		CO ₂ monitoring:		Yes / No	
I-stat results		Initial	Follow-up		Initial	Follow-up	
(CG8 electrolyte results on I-stat sheet)	Time:	1010					
	Temp:	53.1					
	R rate:			HCO ₃ :	17.2		
	pH:	7.0867.7.135		TCO ₂ :	19		
	PO ₂ :	137 115		sO ₂ :	98		
	PCO ₂ :	571 48.1		Lact.:	720		
	BEecf:	-13		Gluc.:	111		

Comments: (note water use to stimulate resp. rate)
water-induced respirations

REPRODUCTION	Lactating?	Y / <u>N</u>	
	Vulva swollen?	Y / <u>N</u>	

Comments:

EXCRETA	Feces?	<u>Y</u> / N	description:	<u>moist, voluminous, well-digested, st. fibrous,</u>
	Urine?	<u>Y</u> / N	description:	<u>light green, brown</u>

DIAGNOSTIC SAMPLES COLLECTED**MEDICATIONS ADMINISTERED****COMMENTS**

Manatee in great condition, lesions of cold exposure are very mild.
 pH ↓, lactate ↑↑ - metabolic acidosis capture-related.
 CBC: MCHC slightly ↓ subtle anemia?
 biochemistry mostly unremarkable
 TP slightly ↑, v. mild dehydration?
 progesterone ↑ likely pregnant

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1310 Capture ID: TBC101 Assessed by: de Wit
 Animal Name: Mullivalt Date: 11 Dec 13 Gender: M / (F)
 Total length: 246 cm Weight: 673 kg (lb) Capture Method: open water boat-board
 Location: ouc Brevard Event: FPL tagging Air temp: 22 (C) F Water temp: 23 (C) F
 Time notes: Initiated 10:22 Net Out 10:22 On Deck 10:25 Start Evaluation 10:45
 First blood sample 11:00 Follow-up blood sample _____ Release 11:33

BODY CONDITION	Score: 1 Emaciated	2 Thin	(3) Normal	4 Fat	5 Obese
	Peanut shaped head? Y / (N)		Ribs visible? Y (N)		
	Ventrums:		Rounded / (Flat) / Concave / Ventral Folds		

Comments: (note areas, degree of weight loss)
condition on the thin side of normal, ~ 2.75. Not real peanut but very slight dip

ACTIVITY	At Capture	High / (Medium) / Low
	During Work-up	Active / (Calm) / Lethargic

Comments:

THR SUMMARY	Oral temperature <u>33.6</u> (C) F	Respiratory rate <u>5-12</u> per 5 min.
(see THR sheet)		Heart rate <u>57</u> per 1 min.
Body temp. support:	Y / (N) method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	NGL	
Eyes	NGL	
Ears	NGL	

INTEGUMENT	Cold stress: Lesions? (Y) N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:	G	G, L G, L
B = Bleaching	Thickened epidermis? Y / (N)	<u>B in ventral body creases</u>
G = Gray mottling	Cobblestone epidermis? Y / (N)	
S = Skin sloughing	Watercraft scars? Y (N)	
A = Abscess	Watercraft wounds? Y (N)	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? (Y) / N	<u>thin brown</u>
	Other epibiota? (Y) / N	<u>few small barnacles</u>

Flippers: (Describe abnormalities or else NGL)
(R) left

Fluke: (Describe abnormalities or else NGL)
see below

Comments: healing linear lesions on (R) shoulder, (L) fluke. Some of grey/bleached mottling associated w/ some pitting.

Manatee ID: CB3C1310Capture ID: TB3C101Date: 11 Dec 13

RESPIRATORY	Depth of respirations	superficial / <u>deep</u> bi-lateral / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

	Initial	Follow-up		Initial	Follow-up
Time:	1057				
Temp:					
R rate:			HCO ₃ :	31.2	
pH:	7.229 7.282		TCO ₂ :	33	
PO ₂ :	99 78		sO ₂ :	96	
PCO ₂ :	74.8 63.1		Lact.:	5.92	
BEecf:	4		Gluc.:	85	

Comments: (note water use to stimulate resp. rate)

water-induced respirations**REPRODUCTION**Lactating? Y / NVulva swollen? Y / N

Comments:

w. accretion particles**EXCRETA**Feces? Y / N description: moist, voluminous, well-digested, light greenUrine? Y / N description: mixed w/ feces due to moving brown**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Manatee in ok condition. Significant but mild signs of exposure to cold.

Blood CBC Ht ↑ dehydration?

heterophils, eosinophils ↑ subtle inflammation,
parasitic, hypersensitivity?

progesterone consistent w/ non-pregnant female

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1311 Capture ID: TBC102 Assessed by: de Wit
 Animal Name: Tri Date: 11 Dec 13 Gender: M / (F)
 Total length: 276 cm Weight: 876 kg (lb) Capture Method: land-based boat set
 Location: CUC Brevard Event: FPL tagging Air temp: 25 C/F Water temp: 24 C/F
 Time notes: Initiated 11:08 Net Out 11:08 On Deck 11:10 Start Evaluation 11:30
 First blood sample 10:37 Follow-up blood sample _____ Release 12:21

BODY CONDITION	Score: 1 Emaciated	2 Thin	(3) Normal	4 Fat	5 Obese
	Peanut shaped head? Y / (N)		Ribs visible? Y / (N)		
	Ventrums:		(Rounded) / Flat / Concave / Ventral Folds		
Comments: (note areas, degree of weight loss)					

ACTIVITY	At Capture	(High) / Medium / Low
	During Work-up	Active / (Calm) / Lethargic
Comments:		

THR SUMMARY	Oral temperature <u>34.9</u> C/F	Respiratory rate <u>5-10</u> per 5 min.
(see THR sheet)		Heart rate <u>68</u> per 1 min.
Body temp. support:	Y (N) method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	NGL	
Eyes	NGL	
Ears	NGL	

INTEGUMENT	Cold stress: Lesions? (Y) / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:	B	B G
B = Bleaching	Thickened epidermis? Y / (N)	
G = Gray mottling	Cobblestone epidermis? Y / (N)	
S = Skin sloughing	Watercraft scars? (Y) / N	
A = Abscess	Watercraft wounds? Y / (N)	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? (Y) / N	thin brown
	Other epibiota? (Y) / N	few small barnacles

Flippers:	(Describe abnormalities or else NGL)
	NGL
Fluke:	(Describe abnormalities or else NGL)
	grey/bleached mottling

Comments: Most of trunk lesions - bleached spots are on caudal aspect

Manatee ID: CBC1311

Capture ID: TBC102

Date: 11 Dec 13

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral					
	Inspiration pattern	<u>single</u> / double					
	Symmetry of body	<u>symmetric</u> / asymmetric					
Auscultation:							
O ₂ supplementation:		<u>Yes</u> / No		CO ₂ monitoring: <u>Yes</u> / No			
I-stat results		Initial	Follow-up		Initial	Follow-up	
(CG8 electrolyte results on I-stat sheet)	Time:	1133					
	Temp:	33.0					
	R rate:			HCO ₃ :	10.5		
	pH:	7.089		TCO ₂ :	29		
	PO ₂ :	816		sO ₂ :	91		
	PCO ₂ :	87.5		Lact.:	14.55		
	BEecf:	-3		Gluc.:	73		
Comments: (note water use to stimulate resp. rate) water induced respirations							
REPRODUCTION	Lactating?	Y / <u>N</u>					
	Vulva swollen?	Y / <u>N</u>					
Comments:							
EXCRETA	Feces?	<u>Y</u> / N	description:	moist, well-formed, well-digested, fibrous, brown-green feces			
	Urine?	Y / <u>N</u>	description:				
DIAGNOSTIC SAMPLES COLLECTED							
MEDICATIONS ADMINISTERED							
COMMENTS Manatee in good condition. Lesions of exposure to cold v. mild. Blood CBC MCHC slightly ↓ subtle anemia? progesterone consistent w/ non-pregnant female.							

West Indian Manatee (*Trichechus manatus*) CLINICAL ASSESSMENT FORM

Manatee ID: CBC1312 Capture ID: TBC103 Assessed by: dewit
 Animal Name: Southprong Date: 11 Dec 13 Gender: (M) / F
 Total length: 297 cm Weight: 1075 kg / (lb) Capture Method: open water boat set
 Location: Brevard OUC Event: FPL tagging Air temp: 24 (C) F Water temp: 24 (C) F
 Time notes: Initiated 11:36 Net Out 11:36 On Deck 11:40 Start Evaluation 11:57
 First blood sample 12:05 Follow-up blood sample _____ Release 12:47

BODY CONDITION	Score: 1 Emaciated	2 Thin	<u>(3)</u> Normal	4 Fat	5 Obese
	Peanut shaped head? Y / <u>(N)</u>		Ribs visible? Y / <u>(N)</u>		
	Ventrums:		<u>(Rounded)</u> / Flat / Concave / Ventral Folds		

Comments: (note areas, degree of weight loss)

ACTIVITY	At Capture	<u>(High)</u> / Medium / Low
	During Work-up	Active / <u>(Calm)</u> / Lethargic

Comments:

THR SUMMARY	Oral temperature <u>31.5</u> <u>(C)</u> F	Respiratory rate <u>5-10</u> per 5 min.
(see THR sheet)		Heart rate <u>60</u> per 1 min.
Body temp. support:	Y / <u>(N)</u> method: Shade / Tent / Heater / Blanket / Water	

HEAD	Describe any abnormalities or NGL (no gross lesions)	
Nares	<u>NGL</u>	
Eyes	<u>NGL</u>	
Ears	<u>NGL</u>	

INTEGUMENT	Cold stress: Lesions? <u>(Y)</u> / N	Score? Head: <u>0</u> Trunk: <u>0</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		<u>L</u>
B = Bleaching	Thickened epidermis? Y / <u>(N)</u>	
G = Gray mottling	Cobblestone epidermis? <u>(Y)</u> / N	<u>patches on dorsal & lateral aspects</u>
S = Skin sloughing	Watercraft scars? <u>(Y)</u> / N	
A = Abscess	Watercraft wounds? Y / <u>(N)</u>	number:
L = Lesion, superficial	- stage of healing	
Ld = Lesion, deep	- appearance	superficial / penetrating / both
Lu = Lesion, ulcerating	Algal mat? Y / <u>(N)</u>	
	Other epibiota? Y / <u>(N)</u>	

Flippers: (Describe abnormalities or else NGL)

cobblestone epidermis

Fluke: (Describe abnormalities or else NGL)

pitted lesions on dorsal aspect < 20

Comments: Abrasions head, flippers, tail from capture

Manatee ID: C3C1312

Capture ID: TBC103

Date: 11 Dec '13

RESPIRATORY	Depth of respirations	superficial / <u>deep bi-lateral</u> / deep uni-lateral
	Inspiration pattern	<u>single</u> / double
	Symmetry of body	<u>symmetric</u> / asymmetric

Auscultation: —

O₂ supplementation:Yes / NoCO₂ monitoring: Yes / No**I-stat results**

(CG8 electrolyte results on I-stat sheet)

		Initial	Follow-up		Initial	Follow-up
Time:	12 01					
Temp:						
R rate:				HCO ₃ :	29.5	
pH:	7.128			TCO ₂ :	32	
PO ₂ :	58			sO ₂ :	78	
PCO ₂ :	89.0			Lact.:	12.37	
BEecf:	0			Gluc.:	105	

Comments: (note water use to stimulate resp. rate)

water-induced respirations

REPRODUCTIONLactating? Y / N

Vulva swollen? Y / N

Comments:

EXCRETAFeces? Y / N description:Urine? Y / N description: clear - yellow**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Good-looking manatee. Only signs of cold exposure were penetrating lesions (small) on fluke - insignificant.

Blood: CBC H+↑ {dehydration?
biochemistry TPP}