

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

Manatee ID: CBC1401 Capture ID: _____ Assessed by: de Wit
 Animal Name: Sunset/TBC106 Date: 9 Dec 2014 Gender: M / (F)
 Total length: 255 cm Weight: 930 kg (lb) Capture Method: open-water
 Location: ouc Event: FPL tagging Air temp: 24.7 (C) F Water temp: 21 (C) F
 Time notes: Initiated 9:40 Net Out 9:47 On Deck 9:57 Start Evaluation 10:09
 First blood sample 10:18 Follow-up blood sample ~10:50 Release 10:58

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) <u>great condition, dip dorsal midline</u>					

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

THR SUMMARY	Oral temperature <u>34.1</u> <u>(C)</u> F	Respiratory rate <u>4-7</u> per 5 min.
(see THR sheet)		Heart rate <u>60-68</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>0</u> Trunk: <u>0</u> Fluke: <u>1</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		<u>L</u> <u>L</u>
B = Bleaching	Thickened epidermis? (Y) / N	<u>on lesion's margins</u>
G = Gray mottling	Cobblestone epidermis? (Y) / N	<u>Scattered thin patches on body</u>
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	<u>partial barnacle on dorsum</u>

Flippers: (Describe abnormalities or else NGL)
few small pitted lesions & bleaching

Fluke: (Describe abnormalities or else NGL)
few small pitted lesions

Comments: small circular lesion patch - healing on mid (2) - dorsum & linear healing lesion linear on (1) shoulder. Do not appear to be c.s. lesions also patch on dorsal head

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
Comments: (note water use to stimulate resp. rate) <u>Some froth from nose right after capture</u>		<u>spontaneous respirations mostly</u>

I-STAT RESULTS		Initial		Follow-up		Initial		Follow-up	
(CG8 electrolyte results on I-stat sheet)		Time: <u>1401</u>		<u>1401.2</u>					
		Temp: <u>37.0</u>		<u>37.0</u>					
		R rate: <u>77</u>		<u>77</u>		HCO ₃ : <u>24.5</u>		<u>30.1</u>	
		pH: <u>7.06</u>		<u>7.19</u>		TCO ₂ : <u>27</u>		<u>33</u>	
		PO ₂ : <u>138</u>		<u>37</u>		sO ₂ : <u>98</u>		<u>53</u>	
		PCO ₂ : <u>83.3</u>		<u>84.8</u>		Lact.: <u>720</u>		<u>14.49</u>	
		BEecf: <u>-6</u>		<u>1</u>		Gluc.: <u>94</u>		<u>82</u>	

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

Comments:

(copious)

EXCRETA	Feces? <u>(Y)</u> / N	description: <u>moist, well-digested, slightly fibrous,</u>
	Urine? <u>(Y)</u> / N	description: <u>large volume, clear, light yellow</u>

DIAGNOSTIC SAMPLES COLLECTED**MEDICATIONS ADMINISTERED**(Istat)**COMMENTS**

* blood gas corrected temp was run @ 24.0°C instead of 34.0°C on 1st blood sample

** recheck blood gas @ 12 min following 1st blood gas animal ~~was~~ was encouraged to breathe every 45 sec to improve pH/HCO₃, saved in machine as 1401.2

Manatee in excellent condition, skin looks good too → changed to CS1 for fluke after reviewing photos, but is very minimal.

Blood AST slightly ↑, but other liver enzymes de, possibly capture-related. Lactate high too, and metabolic acidosis → correcting in follow-up sample.

pH not consistent w/ pregnancy.

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

Manatee ID: CBC1402 Capture ID: _____ Assessed by: de Wit
 Animal Name: Snowflurry/TBC107 Date: 9 Dec 2014 Gender: M / F
 Total length: 310 cm Weight: 1358 kg / lb Capture Method: open-water
 Location: OUC Event: FPL tagging Air temp: 18.1 °C / F Water temp: 21 °C / F
 Time notes: Initiated 11:52 Net Out 11:55 On Deck 12:03 Start Evaluation 12:13
 First blood sample 12:24 Follow-up blood sample _____ Release 13:00

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) <u>great condition, dip in midline</u>					

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

THR SUMMARY	Oral temperature <u>35</u> °C / F	Respiratory rate <u>6-12</u> per 5 min.
(see THR sheet)		Heart rate <u>66-72</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	NGL	white scar on head which appears
Eyes	thick, cloudy tan discharge (B) ear - cytology (previous)	CS-related
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:	<u>g</u> <u>g</u> <u>b</u>	<u>b, l</u> <u>b, l</u> <u>b, 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	
	Other epibiota? <u>Y</u> / N	<u>barnacle</u>

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

Fluke: (Describe abnormalities or else NGL)
CS bleaching & lesions

Comments: CS findings mild, scattered bleaching on body, some of the bleaching associated w/superficial circular lesions - some are spangly

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

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

independent (mostly) & water-induced respirations

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:		<u>34°</u>			
	R rate:			HCO ₃ :	<u>34.0</u>	
	pH:	<u>7.129</u>	<u>7.168</u>	TCO ₂ :	<u>37</u>	
	PO ₂ :	<u>28</u>	<u>22</u>	sO ₂ :	<u>32</u>	
	PCO ₂ :	<u>1025</u>	<u>89.9</u>	Lact.:	<u>10.5</u>	
	BEecf:	<u>5</u>		Gluc.:		

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

Comments:

(copious)

EXCRETA	Feces? <u>(Y)</u> / <u>(N)</u> description: <u>moist, fibrous, well digested, light brown</u>
	Urine? <u>Y</u> / <u>(N)</u> description: _____

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

Manatee in excellent body condition, mild signs of cold exposure in skin. Some old scars appear previous cold stress (note one on head).

Blood mostly unremarkable, but chloride slightly ↑ - see 2013 captures, similar findings. At that time possible cause diarrhea, but this year most feces better formed. Possibly associated with salinity conditions? → vs fresh water conditions in Crystal River Tris. Normal finding in this population?

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

Manatee ID: CBC1403 Capture ID: _____ Assessed by: de Wit
 Animal Name: Adios ITBC108 Date: 9 Dec 2014 Gender: (M) / F
 Total length: 254 cm Weight: 890 kg / (lb) Capture Method: open water
 Location: OUC Event: FPL tagging Air temp: 18° C / F Water temp: 21° C / F
 Time notes: Initiated ? Net Out 12:31 On Deck 12:35 Start Evaluation 12:45
 First blood sample 12:50 Follow-up blood sample _____ Release 13:35

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) dip in midline

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

Comments:

THR SUMMARY	Oral temperature <u>33</u> °C / F	Respiratory rate <u>8-10</u> per 5 min.
(see THR sheet)		Heart rate <u>60-68</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>0</u> Trunk: <u>1</u> Fluke: <u>0</u>
CS Location:	Nose Lips Other Head	Flippers Trunk Fluke
CS Appearance:		<u>b, small L</u> <u>g, few L</u>
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: <u>few prop scrapes (5) +</u>
L = Lesion, superficial	- stage of healing	<u>healing</u> <u>linear scrape caudal</u>
Ld = Lesion, deep	- appearance	<u>superficial</u> / penetrating / both <u>flukes</u>
Lu = Lesion, ulcerating	Algal mat? (Y) / N	<u>thin brown</u>
	Other epibiota? (Y) / N	<u>few barnacles</u>

Flippers: (Describe abnormalities or else NGL)

NGL

Fluke: (Describe abnormalities or else NGL)

NGL

Comments: bleached spots on ventrum

Manatee ID: CBC1403

Capture ID: _____

Date: 9 Dec 2014

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
Comments: (note water use to stimulate resp. rate) <u>spontaneous resp.</u>		

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	34.1°				
	R rate:			HCO ₃ :	32.4	
	pH:	7.094	7.131	TCO ₂ :	36	
	PO ₂ :	31	25	sO ₂ :	37	
	PCO ₂ :	105.8	93.2	Lact.:	11.62	
	BEecf:	3		Gluc.:		

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

Comments: _____

EXCRETA	Feces? <u>(Y)</u> / N	description: <u>moist, well-digested, fibrous, light brown</u>
	Urine? <u>Y</u> / <u>(N)</u>	description: _____

DIAGNOSTIC SAMPLES COLLECTED

MEDICATIONS ADMINISTERED

COMMENTS

Manatee in great condition. Skin v. mild signs of cold exposure.

Blood: slight electrolyte ↑ (Mg, Cl) as in many other Brevard TMs. See discussion CBC1402.

finding of basophilia probably not significant.

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

Manatee ID: CBC1404 Capture ID: _____ Assessed by: de Wit
 Animal Name: Lilzeta/TBC109 Date: 9 Dec 2014 Gender: M / (F)
 Total length: 235 cm Weight: 652 kg / (lb) Capture Method: open water
 Location: ouc Event: FPL tagging Air temp: 18°C F Water temp: 21°C F
 Time notes: Initiated ? Net Out 13:00 On Deck 13:04 Start Evaluation 13:14
 First blood sample 12:22 Follow-up blood sample - Release 14:15

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</u> °C / F	Respiratory rate <u>6-9</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:	<u>b</u> <u>L</u>	<u>9</u> <u>L, Lu, 9</u> <u>Lu</u>
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	moderate brown
	Other epibiota? (Y) / N	few barnacles

Flippers: (Describe abnormalities or else NGL)

NGL

Fluke: (Describe abnormalities or else NGL)

circular lesions (few) midline tail dorsal

Comments: linear lesions (healing) on lateral aspect + neck | Abrasions from net on all aspects
 pitted - small on dorsum

Manatee ID: CBC1404

Capture ID: _____

Date: 9 Dec 2014

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

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

water-induced & self

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	34.1				
	R rate:			HCO ₃ :	24.6	
	pH:	7.045	7.081	TCO ₂ :	27	
	PO ₂ :	93	78	sO ₂ :	92	
	PCO ₂ :	89.9	79.2	Lact.:	720	
	BEecf:	-6		Gluc.:		

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

Comments:

(apicous)

EXCRETA	Feces? <u>Y</u> / N	description: <u>moist, well-formed, fibrous, well-digested brown</u>
	Urine? Y / <u>N</u>	description:

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

Manatee in good condition and mild cold exposure signs in skin.
 Continued to resist work-up (note lactate ↑, metabolic acidosis).
 Blood mostly unremarkable, but slight shift in white blood cells, maybe mild inflammation? But SAA unremarkable.

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

Manatee ID: CBC1405 Capture ID: _____ Assessed by: de Wit
 Animal Name: Ultimo/TBC110 Date: 9 Dec 2014 Gender: M / F
 Total length: 278 cm Weight: 987 kg lb Capture Method: open water
 Location: OUC Event: FPZ tagging Air temp: 20.9 °C / F Water temp: 21 °C / F
 Time notes: Initiated 14:43 Net Out 14:44 On Deck 14:51 Start Evaluation 15:01
 First blood sample 15:10 Follow-up blood sample ~ 15:35 Release 15:42

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)
Slight dip in dorsal midline, but fat layers not extremely thick on ultrasound

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

Comments:

THR SUMMARY	Oral temperature <u>35</u> °C / F	Respiratory rate <u>5-8</u> per 5 min.
(see THR sheet)		Heart rate <u>48-60</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:	<u>b, L</u>	<u>b, L</u> <u>b, L</u> <u>b, L</u>
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	<u>v. thin brown</u>
	Other epibiota? Y (N)	

Flippers: (Describe abnormalities or else NGL)
mild cs lesions

Fluke: (Describe abnormalities or else NGL)
mild cs lesions

Comments: bleached epi on ventrum too (spots)

Manatee ID: CB01405

Capture ID: _____

Date: 9 Dec 2014**RESPIRATORY**

Depth of respirations

superficial / deep bi-lateral / deep uni-lateral

Inspiration pattern

single / double

Symmetry of body

symmetric / asymmetric

Auscultation: _____

O₂ supplementation: _____Yes / NoCO₂ monitoring: Yes / No

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

self & some water-induced**I-STAT RESULTS**

(CG8 electrolyte results on I-stat sheet)

Time: _____

Initial

Follow-up

Initial

Follow-up

Temp:

37.0 34.1 37.0 34.0

R rate:

HCO₃:25.132.8

pH:

7.100 7.137 7.155 7.194TCO₂:2736PO₂:75 27 33 27sO₂:8845PCO₂:80.8 76.2 93.2 81.7

Lact.:

7.2013.68

BEecf:

-54

Gluc.:

7974**REPRODUCTION**

Lactating?

Y / N

N/A

Vulva swollen?

Y / N

Comments: _____

EXCRETAFeces? Y / N description: _____Urine? Y / N description: _____**DIAGNOSTIC SAMPLES COLLECTED****MEDICATIONS ADMINISTERED****COMMENTS**

Manatee in good condition. Skin mild findings of cold exposure.

Blood CBC: eosinophils ↑ but not much. could be parasitic/hypersensitivity but not likely an issue.

chemistry: same electrolyte shift as most other Brevard Thins - see CB01402 discussion.

IStat: lactate ↑↑, some metabolic acidosis, but correcting in follow-up sample.

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

Manatee ID: CBC1406 Capture ID: _____ Assessed by: de Wit
 Animal Name: Wrapup / TBC111 Date: 9 Dec 2014 Gender: (M) / F
 Total length: 240 cm Weight: 632 kg / (lb) Capture Method: open water
 Location: OUC Event: FPL captures Air temp: 20.9 (C) F Water temp: 21 (C) F
 Time notes: Initiated 15:31 Net Out 15:35 On Deck 15:40 Start Evaluation 15:45
 First blood sample 15:50 Follow-up blood sample — Release 16:33

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>5-12</u> per 5 min.
(see THR sheet)		Heart rate <u>60-68</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? <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</u>	<u>b, g</u>	<u>b</u>	<u>b, L, Lu</u>	<u>b, L</u>
B = Bleaching	Thickened epidermis? <u>Y</u> / <u>N</u>					
G = Gray mottling	Cobblestone epidermis? <u>Y</u> / <u>N</u>					
S = Skin sloughing	Watercraft scars? <u>Y</u> / <u>N</u>					
A = Abscess	Watercraft wounds? <u>Y</u> / <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>moderate brown</u>		
	Other epibiota? <u>Y</u> / N			<u>few barnacles</u>		

Flippers: (Describe abnormalities or else NGL)
 NGL

Fluke: (Describe abnormalities or else NGL)
 NGL

Comments: lesions are superficial & scattered. The whole head & flippers appear bleached overall. Skin of head feels very doughy & soft → could turn into #12 score, but hard to assess grossly.

Manatee ID: CBC1406

Capture ID: _____

Date: 9 Dec 2014

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

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	<u>37.0</u>	<u>34.1</u>			
	R rate:			HCO ₃ :	<u>30.1</u>	
	pH:	<u>7.203</u>	<u>7.242</u>	TCO ₂ :	<u>32</u>	
	PO ₂ :	<u>88</u>	<u>73</u>	sO ₂ :	<u>94</u>	
	PCO ₂ :	<u>76.4</u>	<u>67.3</u>	Lact.:	<u>14.49</u>	
	BEecf:	<u>2</u>		Gluc.:	<u>68</u>	

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

Comments: _____

EXCRETA	Feces? <u>(Y)</u> / N	description: <u>most well-formed, well-digested, fibrous, green-brown</u>
	Urine? <u>Y</u> / <u>(N)</u>	description: _____

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

Manatee in good condition. Face & flippers epidermis may be significantly cold-exposed, based on softness, but not visible grossly.

Blood CBC Ht slightly ↑, some dehydration? → urea is normal, but creatinine also somewhat ↑. The latter could be muscle damage but lactate was not extremely high.

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

Manatee ID: CBC1407 Capture ID: _____ Assessed by: de Wit
 Animal Name: Mammoth / TBC112 Date: 10 Dec 14 Gender: M / (F)
 Total length: 324 cm Weight: N/A kg / lb Capture Method: open water
 Location: OUC Event: FPL tagging Air temp: 17° (C) F Water temp: 19° (C) F
 Time notes: Initiated 9:36 Net Out 9:39 On Deck 9:45 Start Evaluation 9:55
 First blood sample 10:09 Follow-up blood sample ~10:50 Release 10:58

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>34</u> <u>(°C)</u> / F	Respiratory rate <u>7-10</u> per 5 min.
(see THR sheet)		Heart rate <u>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>g.b</u> <u>g.b</u> <u>g.L.b</u> <u>g.L.b</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? <u>(Y)</u> / N	number: <u>1 scrape mid dorsum</u>
L = Lesion, superficial	- stage of healing	<u>capture related</u>
Ld = Lesion, deep	- appearance	<u>superficial</u> / penetrating / both
Lu = Lesion, ulcerating	Algal mat? <u>(Y)</u> / N	<u>thin brown</u>
	Other epibiota? <u>(Y)</u> / N	<u>few barnacles</u>

Flippers: (Describe abnormalities or else NGL)

abrasions on margins from capture.

Fluke: (Describe abnormalities or else NGL)

fluke margin irregular but well-healed (previous mid stress)

Comments: CS - mostly bleached spots, few lesions that are superficial.
capture abrasions on body

Manatee ID: CBC1407

Capture ID: _____

Date: 10 Dec 2014

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

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

respirations on its own

I-STAT RESULTS		Initial		Follow-up			Initial		Follow-up	
(CG8 electrolyte results on I-stat sheet)	Time:	<u>10:02</u>		<u>10:49</u>						
	Temp:	<u>37.0</u>	<u>34.0</u>							
	R rate:	<u>64</u>	<u>70</u>			HCO ₃ :	<u>21.2</u>	<u>23.6</u>		
	pH:	<u>7.39</u>	<u>7.02</u>	<u>7.04</u>	<u>7.08</u>	TCO ₂ :	<u>33</u>	<u>26</u>		
	PO ₂ :	<u>30</u>	<u>24</u>	<u>33</u>	<u>27</u>	sO ₂ :	<u>29</u>	<u>38</u>		
	PCO ₂ :	<u>120.9</u>	<u>106.0</u>	<u>85.6</u>	<u>75.1</u>	Lact.:	<u>16.47</u>	<u>19.79</u>		
	BE _{ecf} :	<u>-2</u>		<u>-7</u>		Gluc.:	<u>81</u>	<u>116</u>		

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

Comments:

but abdomen distended & fat measurements consistent w/ pregnancy.

EXCRETA	Feces? <u>Y</u> / N	description: <u>mist, well-digested, well-fined, fibrous, light brown</u>
	Urine? <u>Y</u> / <u>N</u>	description: _____

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

V. large female in excellent condition. Skin v. mild lesions associated w/ cold exposure.
 Blood pH acidotic - combination respiratory & metabolic? CO₂ went down after 1st sample, lactate up (→ possible delayed effect due to size).

Blood Triglyceride ↑ slightly → fat animal

P₄ consistent w/ midterm pregnancy.

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

Manatee ID: CBC1408 Capture ID: _____ Assessed by: de Wit
 Animal Name: Snowcap / TBC113 Date: 10 Dec 14 Gender: (M) / F
 Total length: 293 cm Weight: 1165 kg (lb) Capture Method: open-water
 Location: OUC Event: FPL tagging Air temp: 19.8°C F Water temp: 21°C F
 Time notes: Initiated 12:45 Net Out 12:48 On Deck 12:54 Start Evaluation 13:07
 First blood sample 13:15 Follow-up blood sample - Release 13:56

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>34.9°C</u> / F	Respiratory rate <u>9-12</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	well-healed indented scar on dorsal head
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:		<u>g, L</u> <u>g, L</u> <u>6 - mostly ventral, L</u>
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	<u>thin brown</u>
	Other epibiota? (Y) / N	<u>few barnacles</u>

Flippers: (Describe abnormalities or else NGL)

cs. lesions mostly (R) flipper

Fluke: (Describe abnormalities or else NGL)

abrasions on margin - fresh, capture-related. Hole (small) w/ well-healed margins near between 6 & 7 o'clock

Comments: Fluke margin irregular but well-healed - previous cold stress

Some of CS lesions appear associated w/ barnacle scars.

Manatee ID: CBC1408

Capture ID: _____

Date: 10 Dec 14

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
Comments: (note water use to stimulate resp. rate) <u>independent respirations mostly</u>		

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	<u>37</u>	<u>34.1</u>			
	R rate:			HCO ₃ :	<u>26.1</u>	
	pH:	<u>7.07</u>	<u>7.114</u>	TCO ₂ :	<u>29</u>	
	PO ₂ :	<u>81</u>	<u>67</u>	sO ₂ :	<u>89</u>	
	PCO ₂ :	<u>88.5</u>	<u>78.0</u>	Lact.:	<u>19.35</u>	
	BEecf:	<u>-4</u>		Gluc.:	<u>97</u>	

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

Comments: _____

EXCRETA	Feces? <u>(Y)</u> / N	description: <u>moist, well-formed, well-digested, fibrous.</u>
	Urine? <u>Y</u> / <u>(N)</u>	<u>light brown</u>

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

Manatee in great condition, skin mild signs of cold exposure
 Blood mostly unremarkable. Some electrolyte shift (Mg, Cl) as in other
 Brevard Tms - see CBC1402 for discussion

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

Manatee ID: CBC1409 Capture ID: _____ Assessed by: de Wit
 Animal Name: Snowmore ITBC114 Date: 10 Dec 14 Gender: M / (F)
 Total length: 298 cm Weight: 1394 kg (lb) Capture Method: open-water
 Location: ouc Event: FPL tagging Air temp: 19° (C) F Water temp: 20° (C) F
 Time notes: Initiated 14:26 Net Out 14:28 On Deck 14:37 Start Evaluation 14:50
 First blood sample 14:58 Follow-up blood sample _____ Release 15:46

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>34°</u> <u>(C)</u> / F	Respiratory rate <u>6-8</u> per 5 min.
(see THR sheet)		Heart rate <u>68-72</u> per 1 min.
Body temp. support:	<u>(Y)</u> / N method: Shade / Tent / Heater / <u>Blanket</u> / 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</u> <u>b.l</u> <u>b</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? Y / <u>(N)</u>	
	Other epibiota? Y / <u>(N)</u>	

Flippers: (Describe abnormalities or else NGL)

NGL (but bleaching)

Fluke: (Describe abnormalities or else NGL)

fluke margin slightly irregular but well-healed (previous cold stress)

Comments:

bleached spots are pretty significant, some turn into pitted lesions

Manatee ID: CBC1409

Capture ID: _____

Date: 10 Dec '14

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

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

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	37°	34°			
	R rate:			HCO ₃ :	29.7	
	pH:	7.054	7.090	TCO ₂ :	33	
	PO ₂ :	42	34	sO ₂ :	53	
	PCO ₂ :	106.2	93.6	Lact.:	18.08	
	BEecf:	-1		Gluc.:	85	

REPRODUCTION Lactating? Y / NVulva swollen? Y / N

Comments:

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

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

Manatee in excellent condition. Skin has distinct cold exposure bleaching.
 Blood Istat some metabolic acidosis, with respiratory component?
 Mg slightly ↑ - same electrolyte shift as other Brevard Tm's - see
 CBC1402 for discussion.
 P4 not consistent with pregnancy.

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

Manatee ID: CBC1410 Capture ID: _____ Assessed by: de Wit
 Animal Name: Sayonara / TBC115 Date: 10 Dec '14 Gender: M / (F)
 Total length: 242 cm Weight: 656 kg / (lb) Capture Method: open-water
 Location: ouc Event: FPL tagging Air temp: 18.8 °C / F Water temp: 19 °C / F
 Time notes: Initiated 15:05 Net Out 15:11 On Deck 15:15 Start Evaluation 15:40
 First blood sample 15:44 Follow-up blood sample _____ Release 16:28

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:			Rounded	<u>(Flat)</u> / Concave	Ventral Folds

Comments: (note areas, degree of weight loss) ventrum slightly empty.

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

Comments:

THR SUMMARY	Oral temperature <u>N/T</u> °C / F	Respiratory rate <u>3-6</u> per 5 min.
(see THR sheet)		Heart rate <u>48-68</u> per 1 min.
Body temp. support:	<u>(Y)</u> / N method: Shade <u>(Tent)</u> / 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, Lu</u> <u>L, S</u> <u>L, Lu</u> <u>L, Lu</u>
B = Bleaching	Thickened epidermis? Y / <u>(N)</u>	
G = Gray mottling	Cobblestone epidermis? Y / <u>(N)</u>	
S = Skin sloughing	Watercraft scars? Y / <u>(N)</u>	
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>v. few barnacles</u>

Flippers: (Describe abnormalities or else NGL)
some sloughing skin

Fluke: (Describe abnormalities or else NGL)
CS lesions

Comments: lesions - linear, circular, irregular-shaped on all aspects.

Manatee ID: CBC1410

Capture ID: _____

Date: 10 Dec 2014

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

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

water induced respirations. Difficulty breathing on its own.

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	37°	34°			
	R rate:			HCO ₃ :	30.5	
	pH:	7.160	7.199	TCO ₂ :	33	
	PO ₂ :	64	52	sO ₂ :	84	
	PCO ₂ :	85.6	75.1	Lact.:	9.49	
	BEecf:	2		Gluc.:	98	

REPRODUCTION Lactating? Y / NVulva swollen? Y / N

Comments: _____

EXCRETA	Feces? Y / <u>N</u>	description:	
	Urine? <u>Y</u> / N	description:	<u>clear, light yellow (small amount)</u>

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

Manatee in good condition on top, ok on ventrum. Lesions of cold exposure significant but not severe.

Blood mostly unremarkable, but slight heterophilia. Mild response to CS lesions?

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

Manatee ID: CBC1411 Capture ID: _____ Assessed by: de Wit
 Animal Name: Ender/TBC116 Date: 11 Dec 14 Gender: (M) / F
 Total length: 263 cm Weight: 924 kg (lb) Capture Method: open-water
 Location: CUC Event: FPL Tagging Air temp: 15.5°C F Water temp: 17.9°C F
 Time notes: Initiated 10:07 Net Out 10:09 On Deck 10:16 Start Evaluation 10:39
 First blood sample 10:46 Follow-up blood sample — Release 11:37

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)
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Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
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Comments: (note areas, degree of weight loss)

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>—</u> °C / F	Respiratory rate <u>2-6</u> per 5 min.
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(see THR sheet)	(read 27.7, prob. not placed properly)	Heart rate <u>56-60</u> per 1 min.
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Body temp. support:	(Y) / N	method: Shade / (Tent) / Heater / Blanket / Water	blankets in transport
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HEAD		Describe any abnormalities or NGL (no gross lesions)
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Nares	NGL
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Eyes	NGL
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Ears	NGL
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INTEGUMENT	Cold stress: Lesions? (Y) / N	Score? Head: <u>1</u> Trunk: <u>1</u> Fluke: <u>1</u>
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CS Location:	Nose	Lips	Other Head	Flippers	Trunk	Fluke
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CS Appearance:			g, b	b, s, l	g, l	
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B = Bleaching	Thickened epidermis?	Y / (N)
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G = Gray mottling	Cobblestone epidermis?	Y / (N)
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S = Skin sloughing	Watercraft scars?	(Y) / N
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A = Abscess	Watercraft wounds?	Y / (N)	number:
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L = Lesion, superficial	- stage of healing	
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Ld = Lesion, deep	- appearance	superficial / penetrating / both
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Lu = Lesion, ulcerating	Algal mat?	(Y) / N	thin brown
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	Other epibiota?	Y / (N)
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Flippers: (Describe abnormalities or else NGL)

sloughing skin & small CS lesions - mostly (R)

Fluke: (Describe abnormalities or else NGL)

NGL

Comments: several superficial CS lesions of various sizes & shapes on all aspects (linear on lateral)

Manatee ID: CBC1411

Capture ID: _____

Date: 11 Dec 2014

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

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

most respirations on its own

I-STAT RESULTS		Initial		Follow-up			Initial		Follow-up	
(CG8 electrolyte results on I-stat sheet)	Time:									
	Temp:	37°	34.1°							
	R rate:					HCO ₃ :	30.3			
	pH:	7.184	7.222			TCO ₂ :	33			
	PO ₂ :	115	99			sO ₂ :	97			
	PCO ₂ :	80.5	70.9			Lact.:	15.43			
	BEecf:	2				Gluc.:	74			

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

Comments: _____

EXCRETA	Feces? <u>Y</u> / N	description:	<u>moist, well formed, well digested, fibrous, light brown</u>
	Urine? <u>Y</u> / N	description:	<u>copious, slightly flocculent, light yellow</u>

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

Manatee in very good condition, mild lesions of cold exposure.
 Blood mostly unremarkable. Some electrolyte shift like in many other
 Brevard Tm's, see CBC1402 for discussion.

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

Manatee ID: CBC1412 Capture ID: _____ Assessed by: de Wit
 Animal Name: Wilco / TBC117 Date: 11 Dec. 2014 Gender: (M) / F
 Total length: 265 cm Weight: 884 kg / (lb) Capture Method: open-water
 Location: OUC Event: FPL tagging Air temp: 15.5° C F Water temp: 18° C F
 Time notes: Initiated 11:02 Net Out 11:03 On Deck 11:08 Start Evaluation 11:21
 First blood sample 11:28 Follow-up blood sample — Release 12:15

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>35.1° C</u> / F	Respiratory rate <u>3-6</u> per 5 min.
(see THR sheet)		Heart rate <u>60-64</u> per 1 min.
Body temp. support:	<u>(Y)</u> / N method: Shade / <u>Tent</u> / Heater / <u>Blanket</u> / Water	

HEAD		Describe any abnormalities or NGL (no gross lesions)
	Nares	<u>1 rare thick viscous white mucus discharge</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>1</u>		
CS Location:	Nose	Lips	Other Head	Flippers	Trunk	Fluke
CS Appearance:					<u>g, L</u>	<u>g</u>
B = Bleaching	Thickened epidermis? <u>Y</u> / <u>N</u>					
G = Gray mottling	Cobblestone epidermis? <u>Y</u> / <u>N</u>					
S = Skin sloughing	Watercraft scars? <u>Y</u> / N					
A = Abscess	Watercraft wounds? <u>Y</u> / <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</u>		

Flippers: (Describe abnormalities or else NGL)
capture abrasion caudal margin @ flipper

Fluke: (Describe abnormalities or else NGL)
NGL

Comments: v. few lesions - and these are superficial (on lateral body)

Manatee ID: CBC 1412

Capture ID: _____

Date: 11 Dec 2014

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

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

most on its own

I-STAT RESULTS		Initial	Follow-up		Initial	Follow-up
(CG8 electrolyte results on I-stat sheet)	Time:					
	Temp:	34.1				
	R rate:			HCO ₃ :	30.1	
	pH:	7.164	7.202	TCO ₂ :	33	
	PO ₂ :	87	72	sO ₂ :	93	
	PCO ₂ :	83.7	73.7	Lact.:	10.11	
	BEecf:	1		Gluc.:	86	

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

Comments: _____

EXCRETA	Feces? <u>(Y)</u> / N	description: <u>moist, well formed, well digested, fibrous, light brown</u>
	Urine? <u>(Y)</u> / N	description: <u>clear light yellow - scant</u>

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

Skin temperature readings were v. cold. Manatee in good condition.
 Skin looks good too, lesions not significant.
 Blood mostly unremarkable, some electrolyte shift like in many other
 Brevard Tm's - see CBC 1402 for discussion.