

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah

DAILY REPORT

Date 12 130 1 03

Loads Numbers: 1

Areas Worked: (Geographic Names, Lat /Long, Stations): 32° 02' N 80° 51' W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.): overcast, calm, seas < 1 ft., 4.50

Range of H2O Surface Temperature: 11°C (52°F)

Condition of Screening and Deflectors: good

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):

Dredge material mud + sand
No biotic bycatch
Abiotic bycatch - plastic, rope
No incidents involving protected or endangered species.
Arrived Savannah ~~at~~ ~17:30. started digging
2018.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Ø</u>			

Observers On Duty: Reisa Lotova + Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah

DAILY REPORT

Date 12 / 31 / 03

Loads Numbers: 2B-6

Areas Worked: (Geographic Names, Lat /Long, Stations): 32°12' N 80°52' W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.): mostly clear, wind N 5-10, seas 1-3', air temp 45° F

Range of H2O Surface Temperature: 52° F

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):

No incidents involving endangered or protected species,
Dredged material sand & mud.

Biotic bycatch - horseshoe crabs, hermit crabs,
helmet conch shells, wood.

Abiotic bycatch, small amount of trash

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>4</u>	<u>4</u>	<u>0720 next to shrimp inside jetty</u>
<u>"</u>	<u></u>	<u>2</u>	<u>0800 " " on way to dump</u>
<u>"</u>	<u></u>	<u>6</u>	<u>1400 mouth of jetty, playing & feeding</u>
<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>

Observers On Duty: Reisa Fatorra + Kim Peters

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah

DAILY REPORT

Date 01 / 01 / 04

Loads Numbers: 7-12

Areas Worked: (Geographic Names, Lat /Long, Stations): 32°02'N 80°53'W / 32°02'N, 80°50'W

Weather Conditons (sea state, air temp, cloud cover, wind speed & dir.): lt clouds, winds NE 5-8 Knts, 45-60°F, seas 4'

Range of H2O Surface Temperature: 11°C (52°F)

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):

Dredged material sand & mud.
No incidents involving endangered or protected species.
Biotic bycatch shells, blue crab, & horseshoe crab.
Abiotic bycatch - rope, trash

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>3-4</u>	<u>0720</u>	<u>inside jetty</u>
<u>T. truncatus</u>	<u>3</u>	<u>1005</u>	<u>inside channel by buoy 15</u>

Observers On Duty: Reisa Latorra & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah

DAILY REPORT

Date 01/02/04

Loads Numbers: 13-18

Areas Worked: (Geographic Names, Lat /Long, Stations): 32°02'N 80°51'W,
32°02'N, 80°50'W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.):
mostly sunny, wind & seas calm, air temp 53°F

Range of H2O Surface Temperature: 52°F

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):
No incidents involving endangered or protected species,
Dredged material sand & silt.

Biotic bycatch - horseshoe crabs, blue crabs, 1 flatfish, 2 eel
Abiotic bycatch - wood, plastic, netting, rope, crabpot, rocks

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>2</u>	<u>2</u>	<u>1015 by red buoy 18, seeding by shrimp per</u>
<u>T. truncatus</u>	<u>1</u>	<u>1</u>	<u>1030 dig site, S of vessel</u>

Observers On Duty: Reisa Fatoro & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: PADRE ISLAND

Project: SAVANNAH, GA

DAILY REPORT

Date 01, 03, 04

Loads Numbers: 19-24

Areas Worked: (Geographic Names, Lat /Long, Stations): 32°02'N, 80°50'W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.): mostly, wind calm to SE 5-8, seas 1-2' 55-65°F

Range of H2O Surface Temperature: 11.5°C (53°F)

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):

No incidents involving endangered or protected species
Dredged material sand & silt,
Biotic bycatch - approx 10 horseshoe crabs per load, some
blue crabs, 1 flatfish, shells
Abiotic material - wood, trash (plastic, netting, rags)
Conditions excellent for whale-watching - none seen.

Bridge Watch Summary

Species	# of ^{animals} Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>0730</u>	<u>by grn buoy #17</u>
<u>T. truncatus</u>	<u>1</u>	<u>1140</u>	<u>by jetty entrance</u>
_____	_____	_____	_____
_____	_____	_____	_____

Observers On Duty: Reina Latorre & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: PADRE ISLAND

Project: SAVANNAH, GA

DAILY REPORT

Date 01, 03, 04

Loads Numbers: 19-24

Areas Worked: (Geographic Names, Lat /Long, Stations): 32°02'N, 80°50'W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.): mostly, wind calm to SE 5-8, seas 1-2' 55-65°F

Range of H2O Surface Temperature: 11.5°C (53°F)

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):

No incidents involving endangered or protected species.
Dredged material sand & silt,
Biotic bycatch - approx 10 horseshoe crabs per load, some blue crabs, 1 flatfish, shells
Abiotic material - wood, trash (plastic, netting, rags)
Conditions excellent for whale-watching - none seen.

Bridge Watch Summary

Species	# of ^{animals} Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>0730</u>	<u>by grn buoy #17</u>
<u>T. truncatus</u>	<u>1</u>	<u>1140</u>	<u>by jetty entrance</u>

Observers On Duty: Renee Jatorra & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah

DAILY REPORT

Date 01/04/04

Loads Numbers: 25-30

Areas Worked: (Geographic Names, Lat /Long, Stations): 32°02'N 80°50'-51'W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.): foggy to sunny; winds SE 5-8 kts, 55-57°F, seas 1'

Range of H2O Surface Temperature: 54°F

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):
No incidents involving endangered or protected species
Dredged material sand & silt.
Biotic bycatch - approx. 130 horseshoe crabs, shells, grass
Abiotic bycatch - wood, trash.
Excellent whalewatching conditions (when not foggy) -
none seen.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>3</u>	<u>3</u>	<u>0800 buoy 15</u>
<u>T. truncatus</u>	<u>1</u>	<u>1</u>	<u>0945 inside jetty, swimming out</u>

Observers On Duty: Reisa Latorre & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island

Project Savannah

WEEKLY SUMMARY

~~SUN~~ SUN

Date: 12/30/03 - 01/04/04 Load Numbers 1-30

Range of Water Temp., Surface 52-54°C Below Mid-Depth _____

Areas Worked (lat/longs, stations) 32°02'N, 80°50-52'W

Are there incidents involving endangered or protected species? Yes No

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Begin Savannah project 12/30/03. Reisa Latorra & Kim Peters on board.

No incidents involving endangered or protected species

Dredged material sand & silt.

Biotic bycatch - horseshoe crabs (2-30 per load, just started counting on 01/03), shells, blue crab, flatfish (1)

Abiotic bycatch - wood, trash (plastic, rubber, rags)

Conditions good - excellent for whale-watching. None seen.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
12/31	<i>T. truncatus</i> 4 @ 0720, 2 @ 0800, 6 @ 1400	near jetty
01/01	<i>T. truncatus</i> 3-4 @ 0720, 3 @ 1605	near jetty
01/02	<i>T. truncatus</i> 2 @ 1015, 1 @ 1030	" "
01/03	<i>T. truncatus</i> 1 @ 0730 buoy 17, 1 @ 1140	near jetty
01/04	<i>T. truncatus</i> 3 @ 0800 buoy 15, 1 @ 0945	near jetty
/		
/		

Observer(s) on Duty: Reisa Latorra & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah

DAILY REPORT

Date 01/05/04

Loads Numbers: 31-34

Areas Worked: (Geographic Names, Lat /Long, Stations):
32°02'N 80°52'W

Weather Conditions (sea state, air temp, cloud cover, wind speed & dir.):
foggy, partly cloudy, wind SW 5-10 seas 1-2', 55-60°F

Range of H2O Surface Temperature: 53°F

Condition of Screening and Deflectors: effective

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, turtle and whale sightings, etc):

No incidents involving endangered or protected species.
Dredged material sand & silt.
Biotic bycatch ~35 horseshoe crabs
Abiotic bycatch - trash
Whale-watching conditions poor (during fog) to good,
none seen.
Repairs to port skimmer tube 1000-1300

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Ø</u>			

Observers On Duty: Reina Latorre & Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01 / 06 / 04 Loads: #'s 35 To 40

Area(s) Worked: N 32° 02' W 80° 52'

Weather/ Sea Conditions: PARTLY CLOUDY TO OVERCAST; NNW 5 TO 20 KTS; SEAS 1-3'; 15.5°C - 10°C

Range of Water Temp., Surface: 11.5°C Below Mid-Depth: _____

Condition and Effectiveness of Screening: EXCELLENT Comments: _____

Are there incidents involving endangered or protected species? YES **NO**

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

- NO INCIDENTS INVOLVING ENDANGERED OR PROTECTED SPECIES

- MATERIAL DREDGED: SAND & SILT & CLAY

- BIOTIC BY-CATCH: ~ 100 HORSESHOE CRABS; 1-PARCHMENT WORM

- ABIOTIC DEBRIS: SOME TRASH

MISC: TURTLE OBSERVERS KIM PETERS & REISA LATORRA
LEAVE SHIP, ANDREW BROWN & EMILY MARKESTEYN ABOARD

- DISPOSED OF 1 CHARLESTON, SC TURTLE TAKE FROM 12/1/03
AT DUMP SITE AFTER LOAD 37 @ 0944 HRS. TURTLE PART WAS
BOUND IN CHICKEN WIRE & WEIGHTED PROPERLY

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>3</u>	<u>1212 WEST END OF CUT</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/07/04 Loads: #'s 41 To 44

Area(s) Worked: N32° 02.117' W80° 49.977'

Weather/ Sea Conditions: OVERCAST → SUNNY N → E WINDS 14 → 4 KTS.
SEAS 3 → 1'

Range of Water Temp., Surface: 12.5°C Below Mid-Depth: —

Condition and Effectiveness of Screening: EFFECTIVE Comments: —

Are there incidents involving endangered or protected species? YES **NO**

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

- NO INCIDENTS INVOLVING ENDANGERED OR PROTECTED SPECIES

- MATERIAL DREDGED: SAND, SILT, SOME WOOD

- BIOTIC BY-CATCH: 36 HORSESHOE CRABS, 1 BLUE CRAB

- ABIOTIC MATERIAL: SOME TRASH

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>5</u>	<u>1531 MOUTH OF BREAKWATER</u>
<u>T. truncatus</u>	<u>2</u>	<u>1716 300M SOUTH OF RED #20</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/08/04 Loads: #'s 45 To 50

Area(s) Worked: N 32° 02.083' W 80° 49.870' & N 32° 01.662' W 80° 48.951'

Weather/ Sea Conditions: MOSTLY CLEAR, WINDS NE 4-6 KTS.; SEAS 1'

Range of Water Temp., Surface: 12°C Below Mid-Depth: 11.5°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

- MATERIAL DREDGED: SAND, MUD, SILT, CLAY

- BIOTIC BYCATCH: 42 HORSESHOE CRABS, 1 UNIDENTIFIED FISH SP., 2 BLUE CRABS

- ABIOTIC MATERIAL: TRASH & DEBRIS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. TRUNCATUS</u>	<u>3</u>	<u>1442 NEAR RED #14</u>
<u>T. TRUNCATUS</u>	<u>2</u>	<u>1517 NEAR #17 BUOY</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01 / 09 / 04 Loads: #'s 51 To 55

Area(s) Worked: N32° 01.688' W80° 49.001'

Weather/ Sea Conditions: OVERCAST/FOGGY, N/NE 5-7 KTS., SEAS 1-2'

Range of Water Temp., Surface: 11°C Below Mid-Depth: 11°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

- NO INCIDENTS INVOLVING ENDANGERED OR PROTECTED SPECIES

- MATERIAL DREDGED: SAND, SILT, MUD, SOME CLAY

- BIOTIC BY-CATCH: 20 HORSESHOE CRABS

- ABIOTIC MATERIAL: ROPE, WOOD, SMALL ROCKS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>3</u>	<u>1208 DIG SITE</u>
<u>T. truncatus</u>	<u>13+</u>	<u>1222 NEAR RED #12</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
 Project: SAVANNAH, GA

DAILY REPORT

Date: 01 / 10 / 04 Loads: #'s 56 To 62

Area(s) Worked: N32° 01.318' W80° 48.603' ASSIGNMENT #3

Weather/ Sea Conditions: OVERCAST → PARTLY CLOUDY N WINDS 9-15 KTS.
SEAS 2-4'

Range of Water Temp., Surface: 10.5°C Below Mid-Depth: 11°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES **NO**

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

- NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES.

- MATERIAL DREDGED: MUD, SAND, SILT, SOME CLAY

- ABIOTIC MATERIAL: ROCKS, WOOD, DEBRIS

- BIOTIC BY-CATCH: 50 HORSESHOE CRABS, WHELKS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>31+</u>	<u>1132 DUMPSITE, VERY ACTIVE</u>
<u>T. truncatus</u>	<u>7</u>	<u>1154 BY CHANNEL - DIFF. PDD</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01 / 11 / 04 Loads: #'s 63 To 70

Area(s) Worked: N32° 01.318' W80° 48.603' ASSIGNMENT 3&4

Weather/ Sea Conditions: CLEAR SKIES, NORTH Z-11 KTS., SEAS 2-4'

Range of Water Temp., Surface: 10.5°C Below Mid-Depth: 11°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

- MATERIAL DREDGED: MUD, SAND, SILT, SOME CLAY

- BIOTIC BY-CATCH: WHELK SP., SEA PORK, 5 KEYHOLE URCHINS, 33 HORSESHOE CRABS, 1 BLUE CRAB, RAY SP., 2 STARFISH, 1 UNIDENTIFIED FISH SP.

- ABIOTIC MATERIAL: WOOD & DEBRIS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>2</u>	<u>1248 IN CUT AREA</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
 Project: Savannah, GA

WEEKLY REPORT

Dates: 01/05/04 To 01/11/04 Loads: #'s 31 To 70

Area(s) Worked: N 32° 02' W 80° 52', ASSIGNMENTS 3 & 4

Weather/ Sea Conditions: _____

Range of Water Temp., Surface: 12.5-10.5°C Below Mid-Depth: 11.5-11°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES **NO**

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

DREDGED MATERIAL: SAND, SILT, MUD, SOME CLAY
BIOTIC BY-CATCH: ~300 HORSESHOE CRABS, SHELLS,
BLUE CRABS, KEYHOLE URCHINS, PARCHMENT WORM, STARFISH,
RAY SP., SKATE, SEVERAL UNIDENTIFIED FISH SP.
ABIOTIC MATERIAL: TRASH, FISH NETS, WOOD, RAGS, ROCKS

- ENDAN. SP. OBSERVER CHANGE: KP & RL LEAVE SHIP, ANDREW BROWN AND EMILY MARKESTEYN ABOARD 01/06/04

- DISPOSED OF CHARLESTON, SC TURTLE TAKE FROM 12/1/03 AT DUMPSITE ON 1/6/04 TURTLE PART WAS BOUND & WEIGHTED PROPERLY FOR PROTOCOL DISPOSAL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>3</u>	<u>1212</u>
<u>" " "</u>	<u>5, 2</u>	<u>1531, 1716</u>
<u>" " "</u>	<u>3, 2</u>	<u>1442, 1517</u>
<u>" " "</u>	<u>3, 13+</u>	<u>1208, 1222 NEAR RED #12</u>

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
 Project: SAVANNAH, GA

DAILY REPORT

Date: 01/12/04 Loads: #'s 71 To 77

Area(s) Worked: ASSIGNMENT #4

Weather/ Sea Conditions: CLEAR SKIES, WINDS SW 6-10 KTS., SEAS 1' CHOP

Range of Water Temp., Surface: 11°C Below Mid-Depth: 11°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: ALERTED CAPTAIN THAT THE PORT AFT GRATE NOT CLOSING PROPERLY, WILL BE LOOKED AT WHILE AT DOCK DURING FUELING

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

1416 HRS. RIGHT WHALE (2) SIGHTING SOUTH OF BUOY #5, CLOSE TO, BUT OUTSIDE OF CHANNEL; 2 WHALES TOGETHER BOTH AT LEAST SUB-ADULTS; WHALES HAD CALLOSITIES, V-SHAPED BLOW & LACK OF DORSAL FIN; WHALES HAD VARIABLE HEADINGS, SHIP WAS HEADED SOUTHWARD TO DUMPSITE - COMPLETE REPORTS ATTACHED / 5 K SLOW BELL DURING NIGHT DUMP RUNS

- MATERIAL DREDGED: SAND, MUD, SILT, CLAY
- BIOTIC BY-CATCH: 44 HORSESHOE CRABS, BLUE CRAB, SAND EEL, SAND DOLLARS, 2 SKATES
- ABIOTIC MATERIAL: DEBRIS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Eubalaena glacialis</u>	<u>2</u>	<u>1416 NEAR BUOY #5 SO. OF CHANNEL</u>
<u>T. truncatus</u>	<u>3</u>	<u>1614 IN CHANNEL</u>
<u>T. truncatus</u>	<u>5</u>	<u>1718 IN CHANNEL</u>

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

WHALE SIGHTING LOG

PROJECT: SAVANNAH GA

DATE: 12 JANUARY 2004

SPECIES OF WHALE SIGHTED: Eubalaena glacialis

TIME OF SIGHTING: 1416

WEATHER/SEA STATE: Clear, Winds So. 6-8k Seas 1' chop

LOCATION OF WHALE RELATIVE TO PROJECT AND DREDGE: South of buoy #5, Close to, but outside of channel

DISTINGUISHING CHARACTERISTICS: Callosities, V-shaped blow, lack of dorsal fin

ACTIVITY OF WHALE: spending time on surface, and diving

DIRECTION AND SPEED OF WHALE MOVEMENT: VARIABLE headings

DIRECTION AND SPEED OF DREDGE DURING SIGHTING: Southward to dump site

REACTION OF WHALE TO DREDGE (IF ANY): NONE

PRESENCE OF OTHER MARINE ANIMALS: 2 whales together, both AT least sub-adults, if NOT both adults

NAME OF OBSERVER: D. Andrew Brown, Emily Markesteyn

TITLE: ENDANGERED SPECIES OBSERVER

PHONE NUMBER: 828 280-6940 (cell)

OTHER INFORMATION/OBSERVATIONS: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Large Whale Observation Data

(Append to Daily Report)

Dredge: Padre Island

Project: SAVANNAH GA

Date: 12 / JAN / 2004

Load# 75 Times: Start 1235 End 1402 Dump 1430
 Location(lat/long) N 32° 00 W 80° 47 Tide Ebbing Bear Sea State: 1
 Wind Direction: Southerly Speed: 6-8K Cloud Cover(%): 0 H₂O Surf. Temp 11°C

Sighting #1. Time: 1416 Vessel location (lat/long) N 31° 58.884 X 80° 45.795
 Magnetic bearing to sighting Easterly Estimated distance 20 Meters
 Species observed Eubalaena glacialis # of animals 2
 Vessel's heading Southerly Animal's heading VARIABLE

Comments (visual descrip. (length, color, flukes, fin) behaviors observed, surfacing intervals, duration of observation)

One whale appeared on surface 20 meters off port forward quarter, dove, lifting flukes clear of water. Within 2 minutes, whale rose to surface, then ~~rose~~ dove. Within seconds, another large whale appeared AT SAME SPOT, but headed in opposite direction. Both whales appeared on surface, both appeared to be at least sub-adults - if NOT adults. Callosities obvious. Whales observed on surface over several minutes, a few blows visible, most NOT.

Sighting #2. Time: Vessel location (lat/long) X
 Magnetic bearing to sighting Estimated distance
 Species observed # of animals
 Vessel's heading Animal's heading

Comments (visual descrip. (length, color, flukes, fin) behaviors observed, surfacing intervals, duration of observation)

Detailed observations and general comments (who was notified, was whale's behavior influenced by dredging activities, etc.)

Whales observed over several minutes, first spotted as dredge was leaving channel towards dump site. Whale encountered near buoy #5, and last observed in vicinity of buoy #3. Whales observed changing direction several times.

Observers on Duty: Andrew Brown / Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/13/04 Loads: #'s 78 To 79

Area(s) Worked: ASSIGNMENT #4

Weather/ Sea Conditions: CLEAR SKIES ; WIND VARIABLE ; SEAS < 1

Range of Water Temp., Surface: 11°C Below Mid-Depth: 11°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

MATERIAL DREDGED: MUD & SAND, SILT

BIOTIC BYCATCH: 14 HORSESHOE CRABS

ABIOTIC MATERIAL: DEBRIS - TRASH

WENT INTO PORT FOR RE-FUELING & MAINTENANCE
REPAIRS @ 0400 HRS AFTER LOAD #78; DEPARTED
DOCK AT ~~0800~~ 2000 HRS.

RE: PREVIOUS WHALE SIGHTING 1/12/04: PADRE ISLAND
RADIOED AN OUTGOING CONTAINER SHIP (& PILOT) & ALERTED
THEM TO WHALES' PRESENCE

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01 / 14 / 04 Loads: #'s 80 To 88

Area(s) Worked: ASSIGNMENT 3 & 4

Weather/ Sea Conditions: CLEAR -> OVERCAST, WINDS 5-9KTS, SEAS 1-2' CHOP

Range of Water Temp., Surface: 10°C Below Mid-Depth: 10°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):
NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

MATERIAL DREDGED: SAND, MUD, SILT

BIOTIC BY-CATCH: 118 HORSESHOE CRABS, 2 BLUE CRABS, STARFISH, SMALL SHARK SP.

ABIOTIC MATERIAL: DEBRIS - TRASH, NETTING, RAGS, SMALL ROCK PIECES, WOOD

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>30+</u>	<u>1354 Feeding - VERY ACTIVE N OF CHANNEL</u>
<u>" " "</u>	<u>23+</u>	<u>1401 ZOOM S OF CHANNEL, BLOWING LIKE A WHALE</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/15/04 Loads: #'s 89 To 95

Area(s) Worked: STA 465 ASSIGNMENT #3 CLEANUP OPERATION

Weather/ Sea Conditions: PARTLY CLOUDY → HAZY; SW^{NORTH} WINDS 7-9; SEAS 1'

Range of Water Temp., Surface: 10°C Below Mid-Depth: 10°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: PORT AFT GATE STILL OPENING SEVERAL INCHES, CAPTAIN SAID AS SOON AS WE GET A DRY LOAD, OR TOMORROW, THEY WILL REPAIR IT.

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):
NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

MATERIAL DREDGED: MUD, SAND, SILT, CLAY

BIOLOGIC BY-CATCH: 50 HORSESHOE CRABS, 1 SMALL FISH SP., 1 SHARKFISH.

ABIOTIC MATERIAL: RAGS, CRAB POT, DEBRIS/TRASH

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>2</u>	<u>1036 AT DUMPSITE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: Savannah, GA

DAILY REPORT

Date: 01 / 16 / 04 Loads: #'s 96 To 102

Area(s) Worked: ASSIGNMENT #4

Weather/ Sea Conditions: CLEAR SKIES, N-NE WIND 8-12 KTS; SEAS 2-5'

Range of Water Temp., Surface: 10°C Below Mid-Depth: 10°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: *SEE ATTACHED SHEET FOR COMMENTS ABOUT PORT AFT BOX*

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):
NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

MATERIAL DREDGED: MUD, SAND, CLAY & SILT

BIOTIC BY-CATCH: 79 HORSESHOE CRABS, 2 BLUE CRABS, 4 STARFISH

ABIOTIC MATERIAL: DEBRIS- CLOTH, NETTING

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>5</u>	<u>1217 IN CUT AREA</u>
<u>T. truncatus</u>	<u>4</u>	<u>1403 EAST OF GREEN # 11</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markestejn

16 JAN. 04. Port Aft gate had not been staying closed, so today, a pin receptacle was ~~set~~ welded on, and a T-pin inserted to keep the door (gate) closed. At dusk, when I went to attend to checking & cleaning out the boxes, I was able to remove the T-pin, but could not see where to replace it. After trying, I left it un-pinned. Later, I was given instructions by JACK on where the pin receptacle was, & how to access it. I returned at the Captain's request and was able to replace pin.

The starboard Aft box also was pinned beginning with load #99. At the dump, I climbed down and removed the pin. The climb down was precarious, and potentially dangerous, due to having to climb over the hand rail and step down onto a slick pipe, with only the catwalk hand rail to hold onto. (This is the potentially dangerous place.) After 2 steps, is the box, and that has some handrails, joined by loose chain. I ~~stayed~~ relayed to Captain Bob that it felt potentially dangerous, especially in the night. He replied that they would make it less so...

Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/17/04 Loads: #'s 103 To 108

Area(s) Worked: ASSIGNMENT 3 & 4

Weather/ Sea Conditions: OVERCAST, WINDS N 6-8 KTS, SEAS 2' SWELL

Range of Water Temp., Surface: 10°C Below Mid-Depth: 10°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):
NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

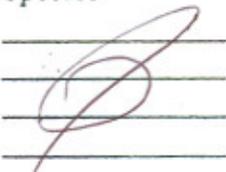
MATERIAL DREDGED: MUD, SAND, CLAY

BIOTIC BY-CATCH: 77 HORSESHOE CRABS, SEA PORK, TUNICATE SP, WAEK SP.

ABIOTIC MATERIAL: DEBRIS/TRASH

MISC: PARTIAL LOAD FOR #107; BTWN. LOADS 107 & 108, AT ANCHOR (1618 HRS) FOR REPAIRS ON STEERING

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/18/04 Loads: #'s 109 To 115

Area(s) Worked: ASSIGNMENT 3 & 4

Weather/ Sea Conditions: ^{FOGGY} OVERCAST → ^{SEAS 2-5'} CLEAR, WINDS VARIABLE 4-12 KTS.

Range of Water Temp., Surface: 10°C Below Mid-Depth: 10°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES **NO**

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

MATERIAL DREDGED: SAND, MUD, SOME CLAY

BIOLOGIC BY-CATCH: 58 HORSESHOE CRABS, 1 STARFISH, SHARK SP., SEVERAL SANDEELS, WHELKS

ABIOTIC MATERIAL: PIECE OF PIPE, WOOD, DEBRIS/TRASH

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>5</u>	<u>1202 IN CUT</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge PADRE ISLAND

Project SAVANNAH, GEORGIA

WEEKLY SUMMARY

Date: 01, 12, 04 - 01, 18, 04 Load Numbers 71-115

Range of Water Temp., Surface 11-10°C Below Mid-Depth 11-10°C

Areas Worked (lat/longs, stations) N32° 02' W80° 52'; ASSIGNMENTS 3&4

Are there incidents involving endangered or protected species?

Yes

No

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

01/12/04 - 1416 HRS. 2 RIGHT WHALES SIGHTED SOUTH OF BUOY #5, CLOSE TO BUT OUTSIDE CHANNEL, AT LEAST SUB-ADULTS, WHALES HAD VARIABLE HEADINGS, WHILE SHIP WAS HEADED TO DUMPSITE, 5 K SLOW BELL FOR 24 HRS. AFTER SIGHTING, RADIOED ALL SHIPS IN VICINITY, COMPLETE REPORTS ATTACHED TO DAILY REPORT FOR 01/12/04.

MISC - 01/13/04 - WENT INTO PORT FOR RE-FUELING & MAINTENANCE REPAIRS 0400 HRS. TO 2000 HRS.

DREDGED MATERIAL: SAND, MUD, SILT, CLAY

BIOTIC BY-CATCH: 440 HORSESHOE CRABS, BLUE CRABS, SAND EELS, SAND DOLLARS, SKATES, STARFISH, SHARK SPP., SEA PORK, TUNICATES, WHELKS

ABIOTIC MATERIAL: WOOD, RAGS, PIPING, CRABPOT

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
<u>01/12</u>	<u>Eubaleana glacialis 2</u>	<u>1416 HRS. NEAR BUOY #5 SOUTH OF CHANNEL</u>
<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>T. truncatus 30+ Daily</u>	<u>IN CHANNEL & DUMPSITE</u>
<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>

Observer(s) on Duty: ANDREW BROWN & EMILY MARKESTEYN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island
Project: SAVANNAH, GA

DAILY REPORT

Date: 01/19/04 Loads: #'s 116 To 122

Area(s) Worked: ASSIGNMENTS 3 & 4

Weather/ Sea Conditions: OVERCAST, W → NW WINDS 5-7 KTS, SEAS < 1'

Range of Water Temp., Surface: 10.5°C Below Mid-Depth: 10.5°C

Condition and Effectiveness of Screening: EFFECTIVE Comments: _____

Are there incidents involving endangered or protected species? YES NO

Comments (Details of turtle takes/ whale sightings, dredged material, screening, biological by-catch, etc.):

NO INCIDENTS W/ ENDANGERED OR PROTECTED SPECIES

MATERIAL DREDGED: SAND, MUD, CLAY

BIOTIC BY-CATCH: 48 HORSESHOE CRABS, WHELKS, BLUE CRAB, STARFISH, SAND EELS

ABIOTIC MATERIAL: ROPE, TIRE, WOOD

MISC: AT 1036 HRS. IN BOUND SHIP SPOTTED RIGHT WHALE OUT PAST SEA BUOY AT DUMP SITE, THEY RADIOED US TO NOTIFY PRESENCE

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. truncatus</u>	<u>3</u>	<u>1215 SOUTH OF GREEN #11</u>
<u>" "</u>	<u>13</u>	<u>1255 IN CUT, FOLLOWING SHRIMP BOAT</u>
_____	_____	_____
_____	_____	_____

Observer(s) on Duty: Andrew Brown & Emily Markesteyn

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah, GA.

DAILY REPORT

Date: 01 120 104 Loads: 123-130

Area(s) Worked Assignments 3+4

Weather Conditions (incl. sea conditions) clear, wind 4-20KTS, sea 2-5'

Range of Water Temp., Surface 10.5°C Below Mid-Depth _____

Condition and Effectiveness of Screening good

Are there incidents involving endangered or protected species? Yes No

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Material: silt, sand + mud

Samples: skates, dog fish, spider crab + 75 Horseshoe crabs.

No incidents involving endangered or protected species.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>3</u>	<u>1138 By Green #9</u>
<u>T.t.</u>	<u>2</u>	<u>1352 by buoy #8A</u>

Observer(s) on Duty: Andrew Brown, Emily Markestejn, Andrew Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah, GA.

DAILY REPORT

Date: 01 / 21 / 04 Loads: 131-139

Area(s) Worked Assignments 3+4 31° 59.6' N 80° 46.7' W

Weather Conditions (incl. sea conditions) CL. 0-7590, wind 5-10KT, sea 1-3'

Range of Water Temp., Surface 10.5°C Below Mid-Depth _____

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species? Yes No

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Material: Sand, mud + silt.

Samples: skate, spider crab, horse conch, whelk, 127 Horseshoe crab.

No incidents involving endangered or protected species.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>2</u>	<u>1352 by buoy #84.</u>

Observer(s) on Duty: Andrew Jackson + Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah, GA.

DAILY REPORT

Date: 01/23/04 Loads: 146-151

Area(s) Worked 31°59.6'N 80°46.88'W + 32°00'N 80°47'W

Weather Conditions (incl. sea conditions) Clear, winds 5-20kts, sea 1-3'

Range of Water Temp., Surface 500C Below Mid-Depth _____

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species? Yes No

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Material: silt, sand + mud

Samples: whale, dog fish, 94 Horseshoe crabs

No incidents involving endangered or protected species

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: Andrew Jackson / Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Padre Island

Project: Savannah, GA.

DAILY REPORT

Date: 01 125 104 Loads: 158-164
 Area(s) Worked 31° 59.6'n 80° 46.8'w
 Weather Conditions (incl. sea conditions) wind 5-20KTS, sea 3'-8', cloudy, Rain
 Range of Water Temp., Surface 49° Below Mid-Depth _____
 Condition and Effectiveness of Screening good

Are there incidents involving endangered or protected species? Yes No

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Material: silt, mud & sand

Samples: 76 Horseshoe crabs

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty Andrew Jackson / Kim Peters

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: _____

Project: _____

WEEKLY SUMMARY

Date: 01 / 14 / 04 - 01 / 25 / 04

Load Numbers 116-164

Range of Water Temp., Surface 10.5°C

Below Mid-Depth

Areas Worked (lat/longs, stations)

Are there incidents involving endangered or protected species?

Yes

No

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Material: Sand, silt & mud

Samples: 598 horseshoe crabs, whelk, blue crab, sea star, sand cel, skate, spider crab, dog fish

No incidents involving endangered or protected species

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
/		
/		
/		
/		
/		
/		
/		

Observer(s) on Duty: Andrew Jackson / Kim Peters