

SEQUENCE OF EVENTS

DAUPHIN ISLAND SAND COLOR PILOT

- 18 May, 2011 - Sampling Event #1 (baseline)
- 1 June, 2011 - Placement Begins
- 6 June, 2011 - Placement Complete
- 13 June, 2011 - Sampling Event #2
- 16 June, 2011 - Sampling Event #3
- 27 June, 2011 - Sampling Event #4
- 6 July, 2011 - Sampling Event #5
- 19 July, 2011 - Sampling Event #6
- 3 August, 2011 - Sampling Event #7
- 4-5 September, 2011 - Tropical Storm Lee
- 8 September - Sampling Event #8
- 12 October – Sampling Event #9
- 30 November- Sampling Event #10 (land survey and sampling only; hydro delayed due to inclement weather (12-16-2011))

Pre-placement photo taken of area just west of the larger fill (~2,500 cy). Note the lack of beach and the location of the three stumps and orange construction fence.



Stumps,
Little beach

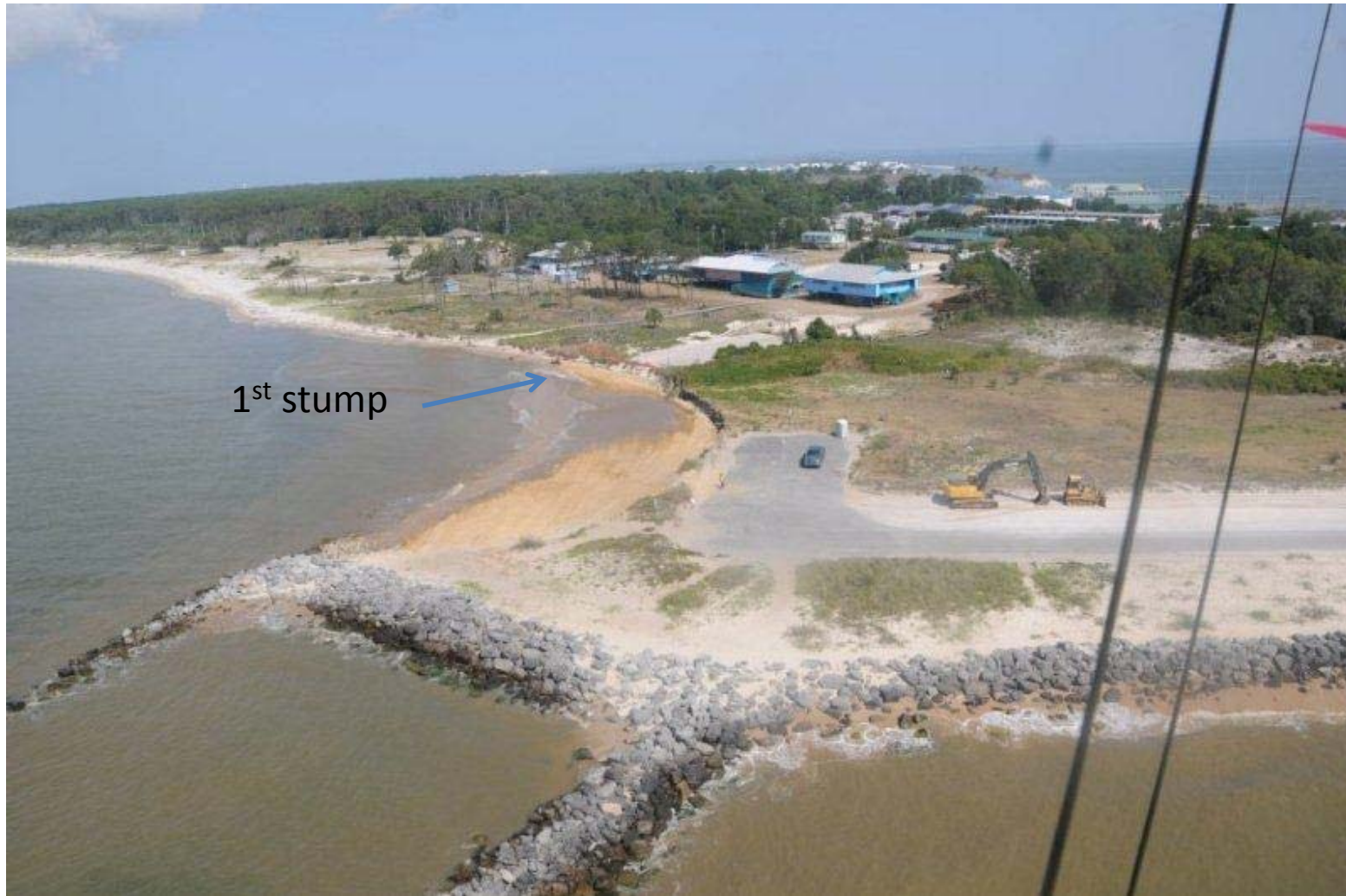
Pre-placement photo taken of area adjacent to parking area where fill will be placed looking south.



Pre-placement photo taken of area adjacent to parking area where fill will be placed looking NW.



Aerial photo taken during placement of the fill.
Note the location of the 1st stump.



6 June 2001 – Fill placement complete.
Note the location of the 1st stump



24 June, 2011 - 3 ½ weeks after placement. Note some westward beach migration and sand color.



22 July, 2011 - 6 ½ weeks after placement. Note additional westward beach migration and sand color difference with sand in scarp at edge of vegetation.



13 September, 2011 – Post TS Lee. All fill placed adjacent to parking area is gone. Compare to slide 3



13 September, 2011 – Post TS Lee. All fill placed adjacent to parking area is gone. Compare to slide 4



13 September, 2011 – Post TC Lee. Note the lighter sand color and further westward migration



13 September, 2011 – Aerial view, Post TC Lee. Note the lack of beach where the original fill was placed and the migration of the sand westward.



28 October, 2011 – 2 weeks after sampling event #9

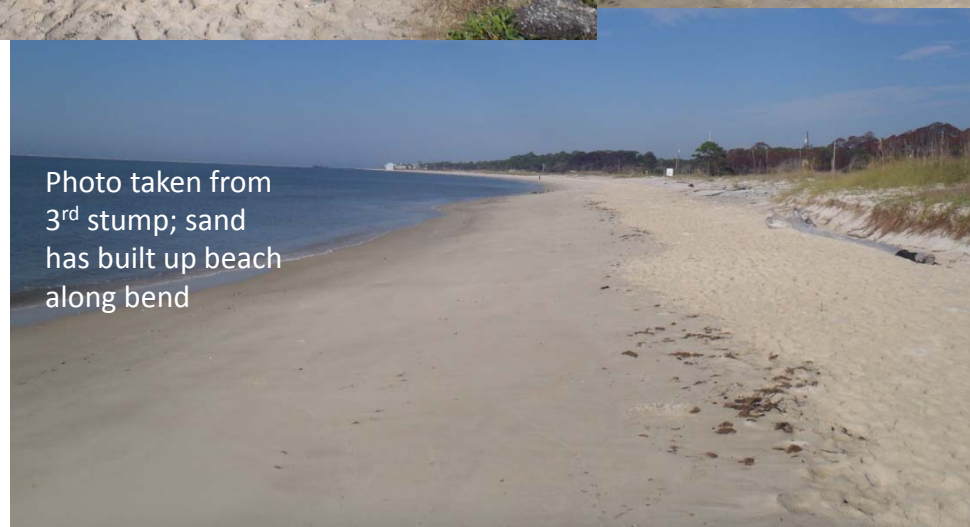
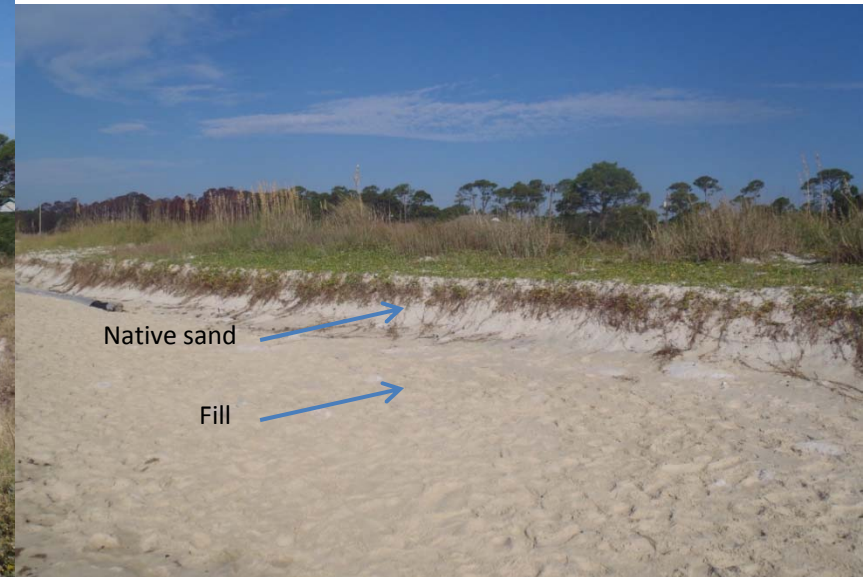


28 October, 2011 – more rock and
stone tablets are fully exposed



Pre-placement photo. (note the stone
tablets at the center of photo as reference point)

28 October, 2011 – sand migration westward, color blend, and remaining beach



Post TS Lee Changes to Sampling Program

- Three new profiles were added to the 21 existing profiles
 - Profile 20A half way between Profile 20 and 21
 - Profile 22 added 100-feet west of Profile 21
 - Profile 23 added 200-feet west of Profile 21
- Sampling at the new Profiles to start on Sampling Event #9, same basic locations (A, B, and C)
- Ranges 9, 10, and 11 to be dropped from any further sampling (all placed sand has migrated)

16 December, 2011

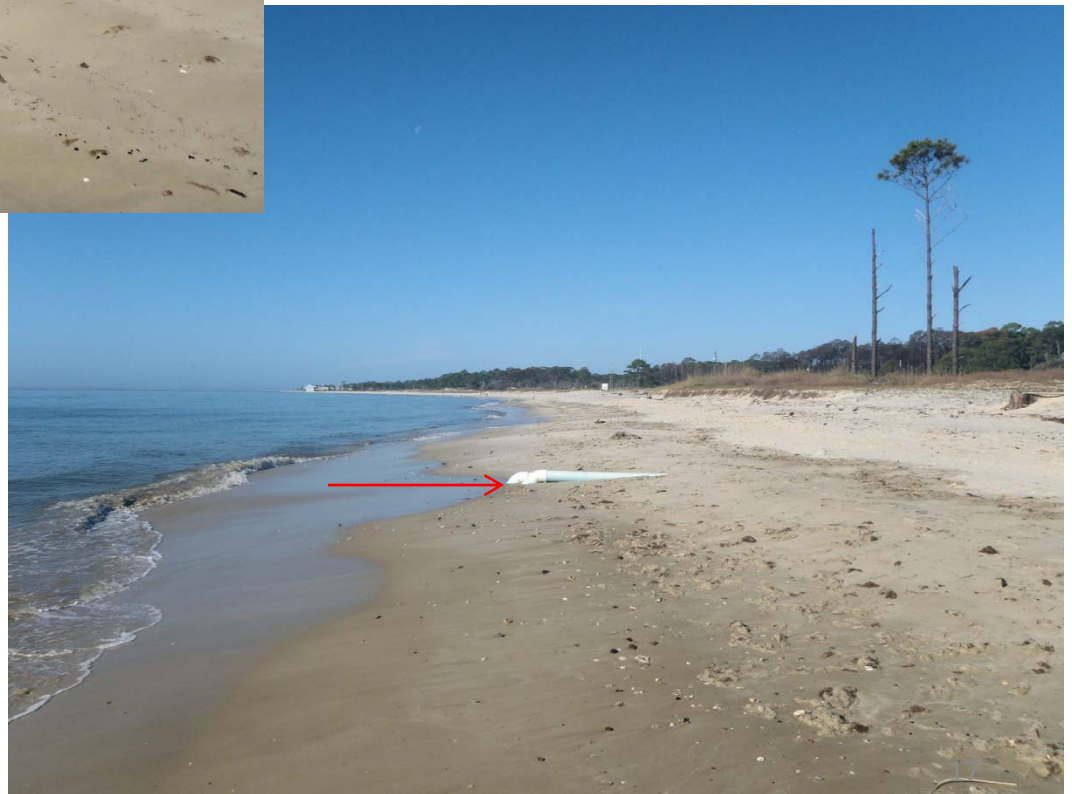
- Sampling and surveying delayed to end of Nov. and beginning Dec. due to inclement weather



There is a visible difference in erosion from October to December in the shoreline and as well as in the roots of the stumps are apparent now.

10/28/2011

***West of the 3 stumps**



12/16/2011

10/28/2011



***West of the pipe on
previous slide; showing
migration of sand
westward**

12/16/2011



Colors!!!



Zoomed in on river sand; a pale orangish color, overlaid by native white sand located at dune.

Area showing sugar white sand at same level of river sand at dune location.



General location of above photos

****Dune located at the western edge of the "nook" at the eastern portion of survey; pictures were taken with a digital camera and a smart phone(due to battery dying in the field), pictures were also enhanced to show better contrast in color**

Sample 1 location (western portion of survey)



Munsell Colors: Dry 2.5Y 8/2

Wet 2.5Y 6.5/3

Sample 2 location (midway of survey)



Munsell Colors: Dry 2.5Y 7.5/2

Wet 2.5Y 6/3

**pictures were enhanced to show better contrast in color