# Shoreline Status

Fripp Island - Shoreline Committee January 24, 2022





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A visual look at both sides of the Fripp Island bridge abutment and the salt marsh.

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## THE BRIDGE AREA

## The shoreline on *right* side of the Fripp bridge. (Springtide side for purposes of clarification)

















This photo, taken at low tide taken on **January 20, 2022**, shows the breached area has joined the existing eroded area next to it, creating a larger sand-only footprint that continues to expand along the bridge approach and throughout the whole area.







The same photo shows wrack is being pushed further and further towards Tarpon Boulevard indicating there is less vegetation available to slow the waves and halt the floating debris.



## THE BRIDGE AREA

## The shoreline on left side of the Fripp bridge. (River Club neighborhood side for purposes of clarification)





























## THE SALT MARSH

Aerial photographs of the changes occurring to the salt marsh located between River Club and Porpoise Drive.

















area. The sea wall in this corner is all that stops the sea from reaching the homes and streets during storm events.

![](_page_21_Picture_0.jpeg)

## Fripp Inlet Shoreline Erosion Study

![](_page_21_Picture_2.jpeg)

## Figure 8. Shoreline Change Note: Red line indicates projected shoreline in 2030

As shown on the information provided in Figure 8, between 2021 and 2030 the shoreline adjacent to the bridge and nook area is expected to change relatively little and significant shoreline erosion is expected between River Club and the PSD Revetment (Marsh Area). Correlating the information presented above with measurements obtained from satellite imagery, it appears that between 2021 and 2030 the shoreline has the potential to retreat between 100 and 200 ft adjacent to River Club and greater than 300 ft within the Marsh Area.

![](_page_21_Picture_5.jpeg)

A page (8) from the McSweeney Inlet Shoreline Erosion Study shows the projected retreat of shoreline between 2021 and 2030 can be 300 feet or more in the marsh area (red line) and between 100-200 feet around the River Club area.

![](_page_21_Picture_7.jpeg)

![](_page_22_Picture_0.jpeg)

## **Fripp Inlet Shoreline Erosion Study**

![](_page_22_Picture_2.jpeg)

## Figure 7. Volumetric Change

Figure 7 provides a relief map showing volume changes along the shoreline within the three study areas. Note the information shown does not depict elevations, rather changes in elevation. The data highlight that between 2010 and 2018 there has been a loss of 1 to 1.5 meters of elevation (erosion) in much of the area. In the marsh areas shoreward of the present shoreline there has been a gain in elevation (accretion) from washover (transport) of sediment from the previously existing beach ridge. This study further validates the change in shoreline and sand accretion of the marsh area as previously presented in Figure 5.

![](_page_22_Picture_5.jpeg)

Another page (7) from the McSweeney Inlet Shoreline Erosion Study shows the loss of elevation (erosion) to the area between 2010 and 2018, as indicated by blue.

Also a temporary gain of elevation (yellow) from sediment being pushed further into the marsh area.

![](_page_22_Picture_8.jpeg)

![](_page_23_Picture_0.jpeg)

![](_page_23_Picture_1.jpeg)

![](_page_24_Picture_0.jpeg)

![](_page_24_Picture_1.jpeg)

![](_page_25_Picture_0.jpeg)

![](_page_25_Picture_1.jpeg)

![](_page_26_Picture_0.jpeg)

![](_page_26_Picture_1.jpeg)

![](_page_27_Picture_0.jpeg)

![](_page_27_Picture_1.jpeg)

![](_page_28_Picture_0.jpeg)

![](_page_28_Picture_1.jpeg)

![](_page_29_Picture_0.jpeg)

![](_page_29_Picture_1.jpeg)

![](_page_30_Picture_0.jpeg)

![](_page_30_Picture_1.jpeg)

![](_page_31_Picture_0.jpeg)

![](_page_31_Picture_1.jpeg)

![](_page_32_Picture_0.jpeg)

![](_page_32_Picture_1.jpeg)

# Shoreline Status

Fripp Island - Shoreline Committee Darryl Zoeckler - January 24, 2022

![](_page_33_Picture_4.jpeg)