

## Memorandum for CRS Activity 322.e – MI6

Prepared: 12/7/2023

Prepared for: City of Gretna

This memorandum provides map information on projected subsidence rates in the City of Gretna. The Coastal Protection and Restoration Authority of Louisiana (CPRA) studied subsidence rates for the southern portion of Louisiana in the Coastal Master Plan (CMP). The study area included the City of Gretna. Figure 1 and Figure 2 below are taken from the report “Determining Subsidence Rates for Use in Predictive Modeling<sup>1</sup>”, published in March 2021, and show projected total subsidence (TS) rates across the Louisiana coast. The location of the City of Gretna is labeled in both figures.

The area Gretna lies in is projected to experience 4.1 to 6 millimeters per year or 0.16 to 0.24 inches per year of subsidence for at least the next 50 years in both the lower and higher scenarios. This amounts to approximately 8 to 12 inches cumulatively over the next 50-year period. Subsidence rates may not be the same in all areas of the City of Gretna.

This memorandum should be updated or superseded by new documents as new information becomes available.

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<sup>1</sup> Fitzpatrick, C., Jankowski, K.L., & Reed, D. (2020). 2023 Coastal Master Plan: Determining Subsidence Rates for Use in Predictive Modeling. Version I. (p. 70). Baton Rouge, Louisiana: Coastal Protection and Restoration Authority.

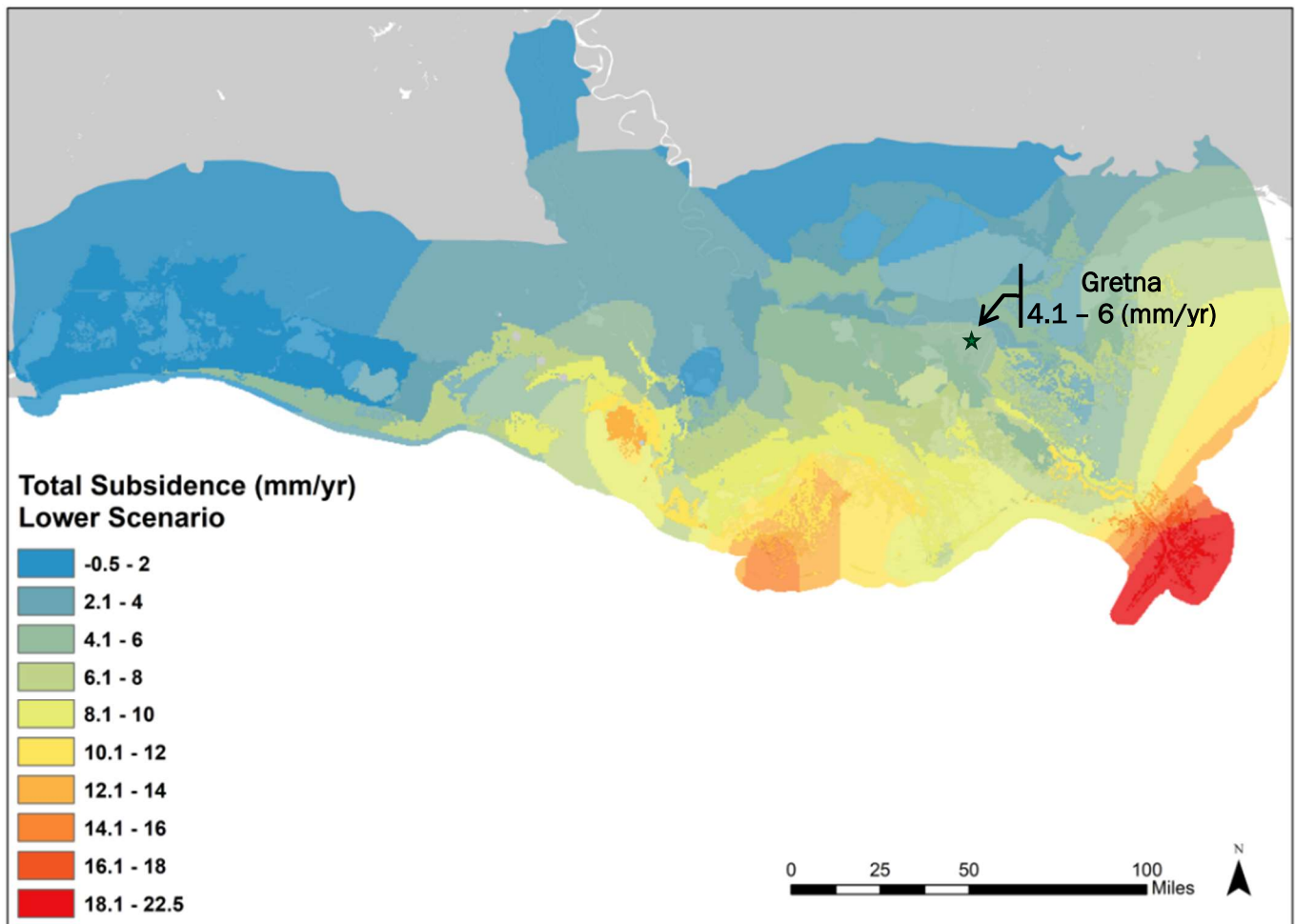


Figure 1: Coastwide Map of Total Subsidence Rates for the Lower Scenario, CPRA

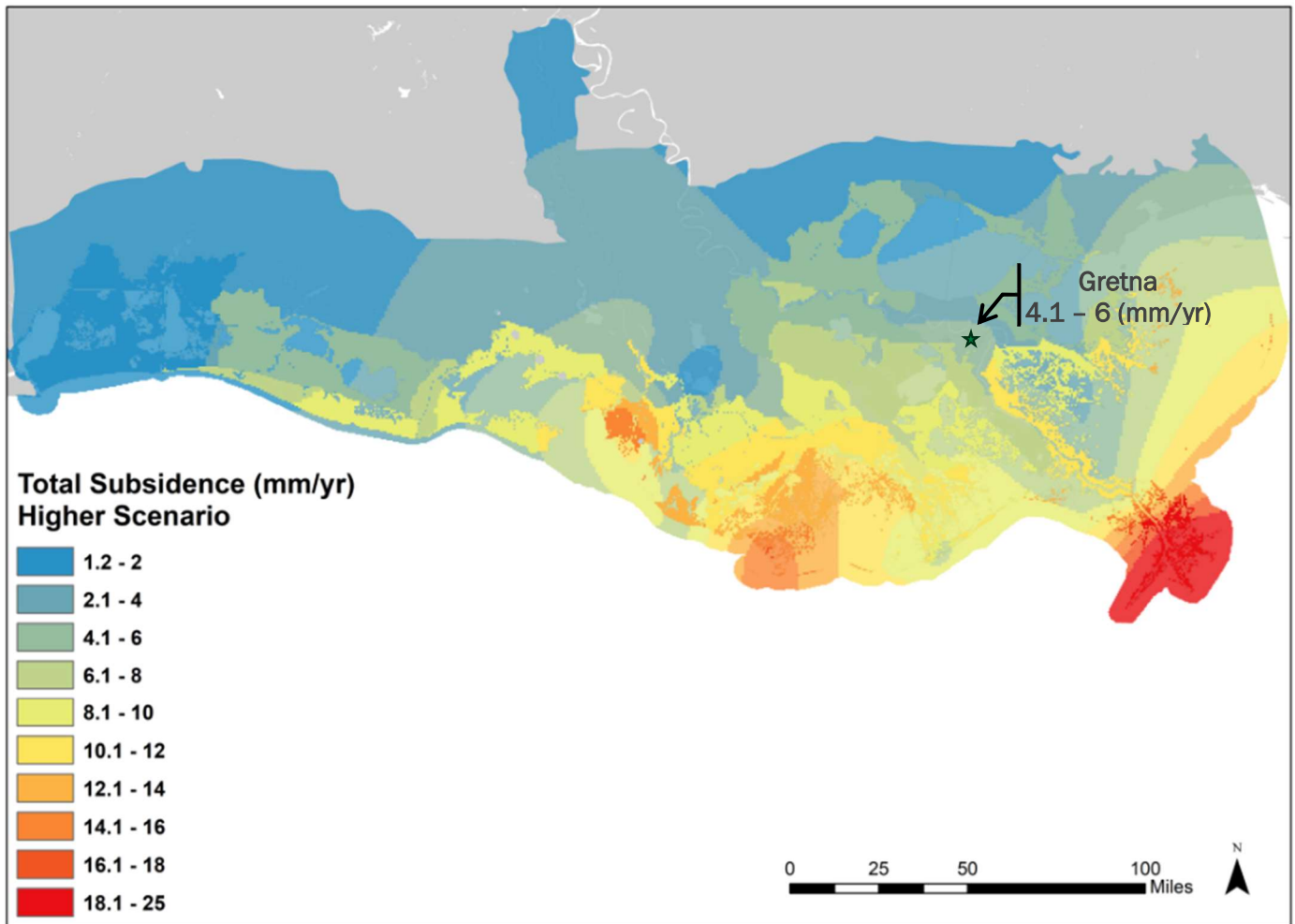


Figure 2: Coastwide Map of Total Subsidence Rates for the Higher Scenario, CPRA