



## Southern Gulf of Carpentaria QLD01.01.01

### Regional Setting

The dominant regional processes influencing coastal geomorphology in this region are the wet-dry tropical climate, trade winds, monsoons, irregular meso-tides, large seasonal mean sea-level range, low to moderate seas, seasonally high river sediment discharges, terrigenous sediments, the El Nino Southern Oscillation (driving sea-level variability & tropical cyclone frequency), and the Madden-Julian Oscillation (driving weather patterns including monsoons and tropical cyclones).

Regional hazards or processes driving large scale rapid coastal changes include: tropical cyclones, storm surges and river flooding.

This compartment extends from Calvert River to Bayley Point.

### Justification of Sensitivity

Sensitivity rating is a 3, as the shoreline is stable and likely to remain stable

### Other comments

This compartment extends from Calvert River to Bayley Point.

It appears that creeks along this coastal progradational plain are delivering sediment to the coast; there are spits and sand shoals at the mouth of several creeks, and the sequence of ridges is often widest adjacent to creeks. A modern sequence of ridges is generally backed by supratidal mudflats.

Geomorphological features present in this compartment include supratidal flats, mangroves, tidal creek and estuarine plains, and chenier or beach-ridge plains.



### **Confidence in sources**

Low confidence: There is little evidence or study of this compartment on which to base the assessment.

### **Additional information (links and references)**

N/A