



## Bundaberg Coast QLD04.04.02

### Regional setting

The regional processes dominating this region include the wet tropics to humid sub-tropical climate, south-east trade winds, meso tides (2.44m), strong tidal currents, low to moderate south-east seas (south-east wind-waves), dominantly terrigenous sediments with interrupted northerly longshore sediment transport (low-moderate), the El Nino Southern Oscillation (driving sea-level variability, tropical cyclone frequency, beach erosion/accretion cycles); 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, river flooding, and variable longshore sand transport.

This compartment extends from Burnett River to Elliott River.

### Justification of sensitivity

Overall sensitivity rating of 3.5. The predominance of low basalt shores provides a rating of 3, with the smaller sandy beaches having a higher rating of 4.

### Other comments

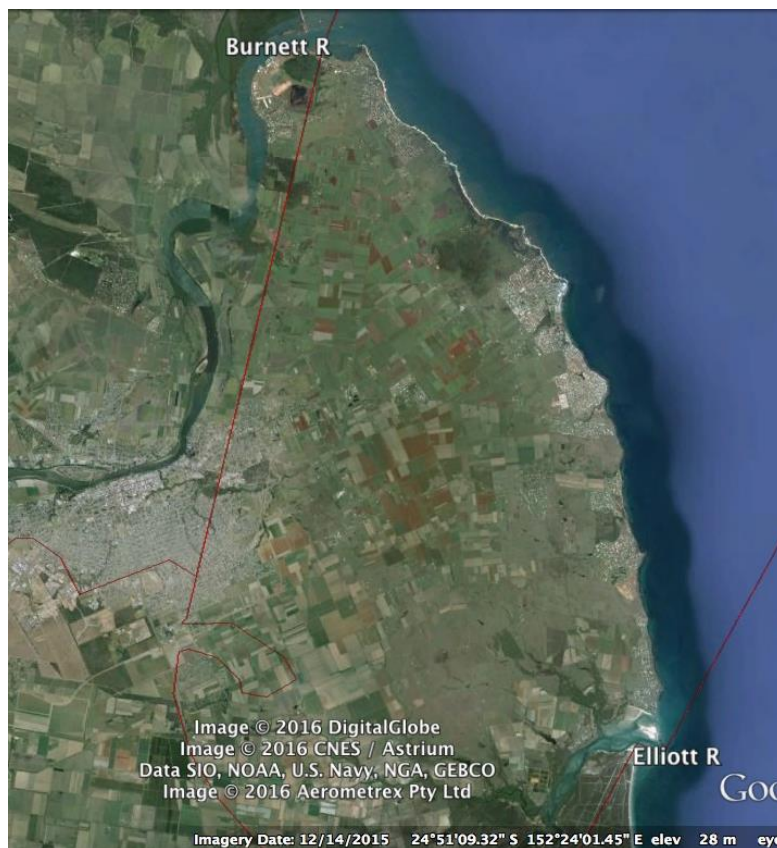
This is a relatively short, 24 km long, predominately low rocky (basalt) section with a few small sandy beaches. While little sand has accumulated on the beaches, the compartment is part of a northerly longshore sand transport system, perhaps with input from the Elliot River, with sediment passing though the compartment and to the north. The 15 generally small beaches occupy just 23% of the coast; the remainder is low basalt rocky shore. The beaches are predicted to erode by less than 100 m by 2100.



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

Short, A D, 2000, *Beaches of the Queensland Coast: Cooktown to Coolangatta*. Sydney University Press, Sydney, 360 pp.

<https://www.ehp.qld.gov.au/coastalplan/coastal hazards.html>



*Bundaberg Coast – Burnett River to Elliott River.*