

## CHANGING MORPHOLOGICAL VIEW OF NAYACHARA TAIL USING GEOINFORMATICS

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### ABSTRACT

Nayachara, a small island of unconsolidated alluvium, located at the confluence of the Hooghly River and the Haldi River at the northern extent of the Bay of Bengal. The island is prone to tidal effects and cyclonic activities. The complex geomorphological and hydrological study along with remote sensing techniques are applied for understanding the recent morphological changes arising out of rapid growth of small islands just downstream of southern tip of Nayachara Island generally known as Nayachara tail. The present study has analyzed the change in area in and around the Nayachara tail through erosional, depositional and tidal activities during the last four decades using multi-temporal satellite images.

**KEYWORDS:** Alluvium, Multi-Temporal, Remote Sensing, Tidal