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Shoreline dynamics of the active Yellow River delta since the implementation of Water-Sediment Regulation Scheme: A remote-sensing and statistics-based approach

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1 **Shoreline dynamics of the active Yellow River delta since the**
2 **implementation of Water-Sediment Regulation Scheme: A**
3 **remote-sensing and statistics-based approach**

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14 **Abstract:** The Active Yellow River (Huanghe) Delta (AYRD) is a complex landform
15 in which rapid deposition takes place due to its geologic formation and evolution.
16 Continuous monitoring of shoreline dynamics at high-temporal frequency is crucial
17 for understanding the processes and the driving factors behind this rapidly changing
18 coast. Great efforts have been devoted to map the changing shoreline of the Yellow
19 River delta and explain such changes through remote sensing data. However, the
20 temporal frequency of shoreline in the obtained datasets are generally not fine enough
21 to reflect the detailed or subtly variable processes of shoreline retreat and advance. To
22 overcome these limitations, we continuously monitored the dynamics of this shoreline

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