

Shenzou Peninsula Resort Coastal Processes Study & Entrance Design

BMT WBM was commissioned by VDM Consulting to undertake a coastal process assessment and prepare the design of the marina entrance for a resort development on Hainan Island in China.

This involved undertaking modelling of waves and sediment transport processes and design of the breakwater arrangement. Spectral wave modelling using SWAN and detailed wave penetration modelling using BOUSS-2D was undertaken.

Key assessments undertaken included:

- Wind and wave climate;
- Water levels including extreme storm tides;
- Wave penetration investigation;
- Breakwater design;
- Littoral sand transport;
- Shoreline change; and
- Channel siltation and dredging maintenance assessments.

Client

VDM Consulting - Burchill

Date

2006 – 2008

Services & Expertise Provided

Detailed coastal process assessments;

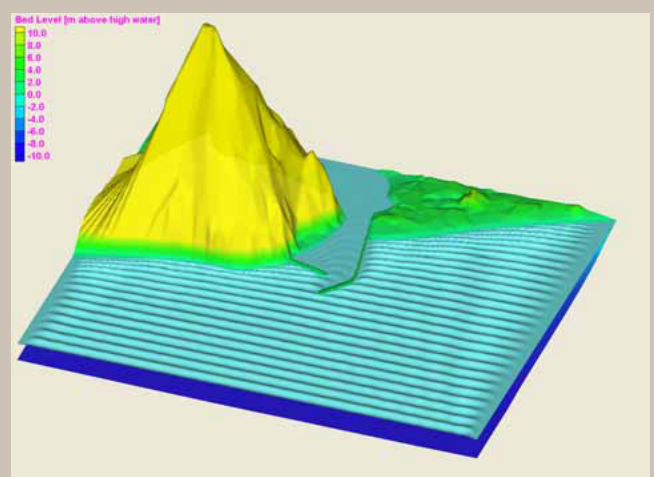
Wave Penetration Modelling;

Siltation Assessments; and

Breakwater design.



*Artist Impression of Shenzou Peninsula Resort
Development*



*Wave penetration modelling of the marina entrance using
BOUSS-2D*