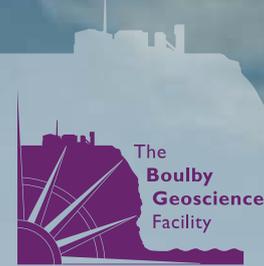


# The Boulby Geoscience Facility

[www.boulbygeoscience.org](http://www.boulbygeoscience.org)



## Monitoring, Modelling and Managing Coastal Rock Cliff Erosion

*A One-Day Workshop* Friday 19th March 2010,

Hunley Hall Hotel and Golf Club, Brotton, Saltburn-by-the-Sea, North Yorkshire, UK

### THE BOULBY GEOSCIENCE RESEARCH GROUP

Erosion of coastal rock cliffs poses significant challenges to shoreline management and hazard mitigation plans, requiring significant public financial expenditure. It is widely anticipated that the predicted increases in the rate of sea level rise over the next century will have profound implications for coastal recession and landform change. It is important that we understand how, and how quickly, coastal landforms are likely to change in the future. The Boulby Geoscience Group has been monitoring and modelling the processes and mechanisms of hard rock sea cliff evolution along the North Yorkshire coastline since 2002. The Group has developed innovative, high resolution methods to monitor rockfall volume, notably through use of Terrestrial Laser Scanning techniques. The installation of a novel cliff-face monitoring system and an array of cliff-top microseismic sensors has provided further insights into the effects of microclimate and wave energy delivery on rockfall behaviour. The research findings have allowed the development of new models of coastal rock cliff change and provide a framework within which the effects of future climatic and sea-level changes on rocky coastlines can be assessed. The Boulby Geoscience Group will be holding a one-day workshop to demonstrate the key findings of ongoing research into coastal rock cliff erosion.

### WORKSHOP TIMETABLE:

09:30 – 10:00 - Reception and welcome. Light refreshments provided.

10:00 – 11:00 - Seminar 1: Background and research rationale.

11:00 – 13:00 - Field excursion to Cowbar Nab, Staithes. Transport provided.

13:00 – 14:00 - Return to Hunley Hall. Transport and luncheon provided.

14:00 – 15:30 - Seminar 2: Presentation of key research findings.

15:30 – 15:40 - Light refreshments provided.

15:40 – 16:30 - Seminar 3: Discussion and workshop wrap-up.

### *To request a place at the workshop, contact:*

Mrs Alison Gannon,  
Secretary - Boulby Geoscience Project  
Telephone: +44 (0)191 33 41858,  
Fax: +44 (0)191 33 41801  
e-mail: [alison.gannon@durham.ac.uk](mailto:alison.gannon@durham.ac.uk)



*This project received funding  
from One Northeast*

