

Contents

Introduction.....	1
Cliff Behaviour	4
The Recession Process.....	4
The Cliff Behaviour Unit.....	9
Cliff Behaviour over Time.....	18
Long-term Behaviour.....	18
Initiation.....	18
Consolidation.....	20
Re-adjustment	23
Abandonment.....	24
Medium-term Behaviour.....	31
Pre-failure Movements.....	34
Failure	34
Post-failure Activity	40
Reactivation	40
Short-term Behaviour	43
Preparatory Factors	44
Triggering Factors.....	44
Spatial Aspects of Cliff Behaviour.....	46
Displacement Patterns.....	46
Geological Structures	51
Scale Changes.....	52
Cliffline Orientation	52
Shoreline Process Aspects of Cliff Behaviour.....	59
Short-term: Wave Attack and Coastal Erosion Processes.....	59
Medium-term: Foreshore Changes.....	62
Long-term: Sea-level Changes	67
The Implications of Sea-level Rise and Climate Change	68
Rainfall, Groundwater and Cliff Behaviour	73
Probabilistic Rainfall: Landslide Activity Models	80
Protected Cliffs: Vulnerability to Internal Slope Processes and Seawall Failure.....	85
Cliff Recession and Sediment Supply.....	91
Cliffs and Habitats.....	95
Hazard Models and Cliff Behaviour Mapping.....	100
Acknowledgements.....	104
References.....	104