

Map 30: MEIKLE TARREL TO EASTER BINDEL

Hinterland Geology and Coastal Geomorphology: Old Red Sandstone extends northwards towards Tarbat Ness. The overlying drift is boulder clay with a thin strip of marine sands and gravel forming a discontinuous platform along the cliff edge. The cliff is very indented, with a section of terraces formed at Beacon Hill (NH 972 837). The cliff overlooks extensive abrasion platform.

Erosion class: This section is eroding at a slow rate due to its exposed position to gales from the NE quadrant. The configuration of the cliff edge is also being sculpted, but slow rate, therefore conditions along this unit are stable.

Built Heritage and Archaeology: The hinterland archaeology includes the village of Rockfield that comprises 18th, 19th and 20th century residential housing. Ballone castle, the scheduled and listed 16th century tower house, has recently been restored and has been protected from foreshore coastal erosion.

Map 30: Hinterland Geology and Coastal Geomorphology

1. CREAG MHOAL to HORSESHOE CRAIG

NH 912 830

1.4km

Rock platform/boulders

High cliff (25m)

Raised beach deposits/boulder clay

Exposed coastal edge consisting of high cliff with raised beach platform. The foreshore is rock platform with boulders. Boulder clay mantles the cliff edge.

2. HORSESHOE CRAIG to WHITE HILLOCK

NH 924 830

2.6

Rock platform/boulders

High cliff (20m)

Raised beach deposits

Post Glacial raised shoreline mantled by boulder clay. The shoreline consists of rock platform and boulders.

3. WHITE HILLOCK to EASTER BINDELL

NH 935 835

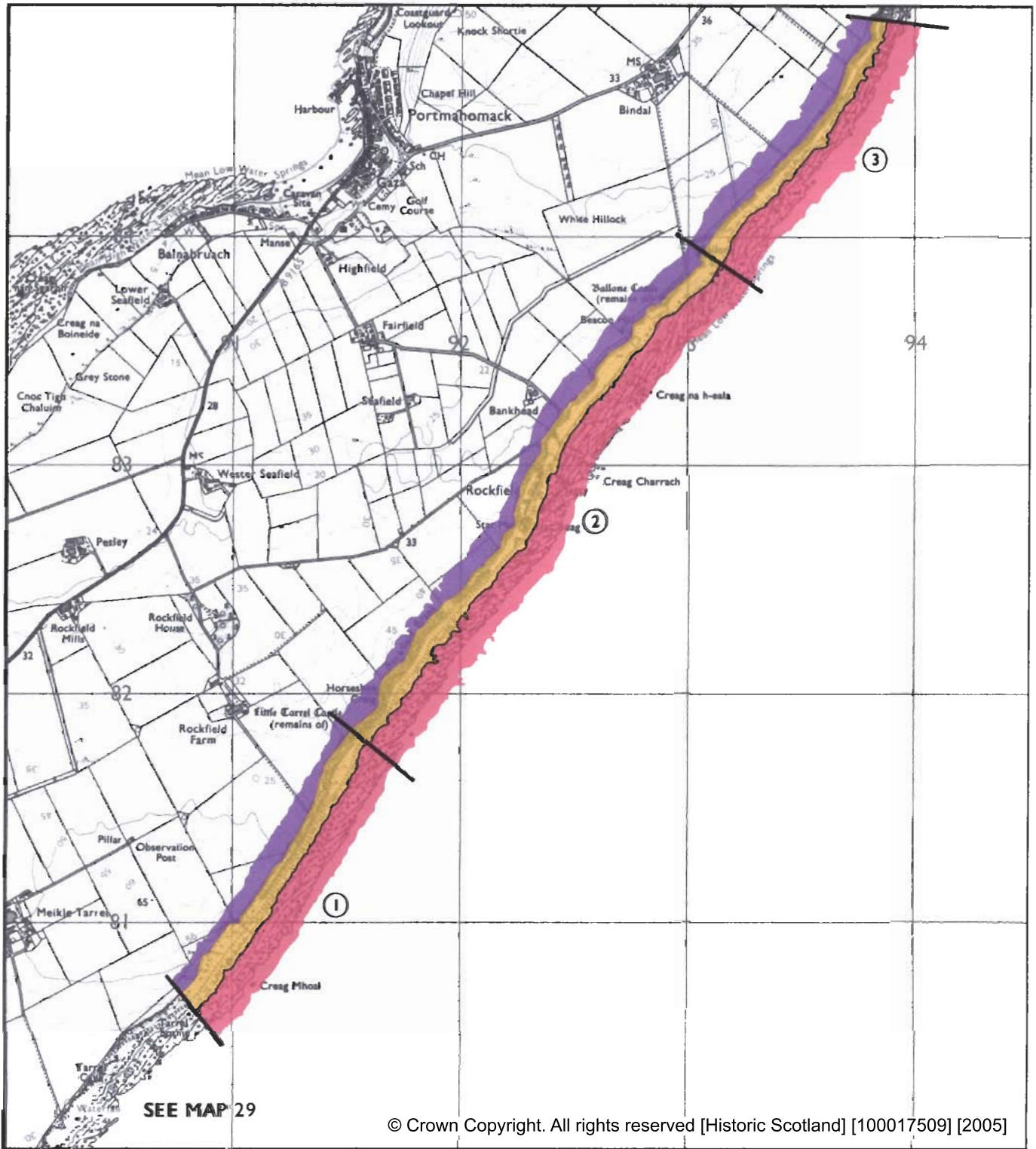
1.3 km

Rock platform/boulders

High cliff (c.20m)

Raised beach deposits

Wide Post Glacial raised platform mantled by boulder clay. The shoreline consists of rock platform and boulders.



MAP 30: MEIKLE TARREL TO EASTER BINDAL 1:25 000
 MORAY FIRTH SURVEY Grid ref: NH 90-94/80-85

Basemap: O.S. Pathfinder Series
 Sheet 124
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**HINTERLAND GEOLOGY
 AND FORESHORE
 GEOMORPHOLOGY**

Assessment date: 24 September 1998

Hinterland:

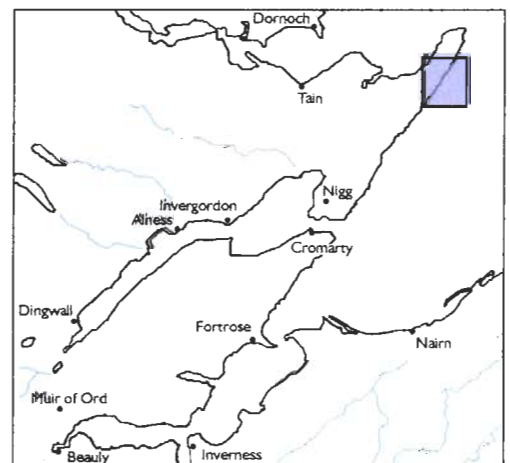
- Drift, boulder clay
- Drift, boulder clay over visible rock
- Raised beach and marine deposits
- Blown sand
- Glacial sand and gravel
- Alluvium

Coast edge:

- Low edge (< 5m tall)
- Cliff over 5m tall
- Man made barrier
- Shingle/storm bank
- Human disturbance

Foreshore:

- Mainly rock platform
- Mainly sand
- Mainly alluvial/marine mud
- Marsh



MAP 30: EROSION

1. CREAG MHOAL to ROCKFIELD

NH 917820

2.5km

Eroding or stable

Exposed shoreline of Old Red Sandstone cut into gullies and abrasion platforms. Erosion is occurring albeit at a slow rate.

2. ROCKFIELD

NH 924 829

0.3km

Accreting or stable

Sheltered behind the cliff and built on a relict sea cut platform Rockfield is protected by sea defences. The cobble beach is stable.

3. BEACON HILL

NH 927 835

1.2km

Stable or eroding

A series of wave cut terraces overlook a rocky shore with exposed rock platforms and gullies. Rubble sea defences have been placed at Ballone.

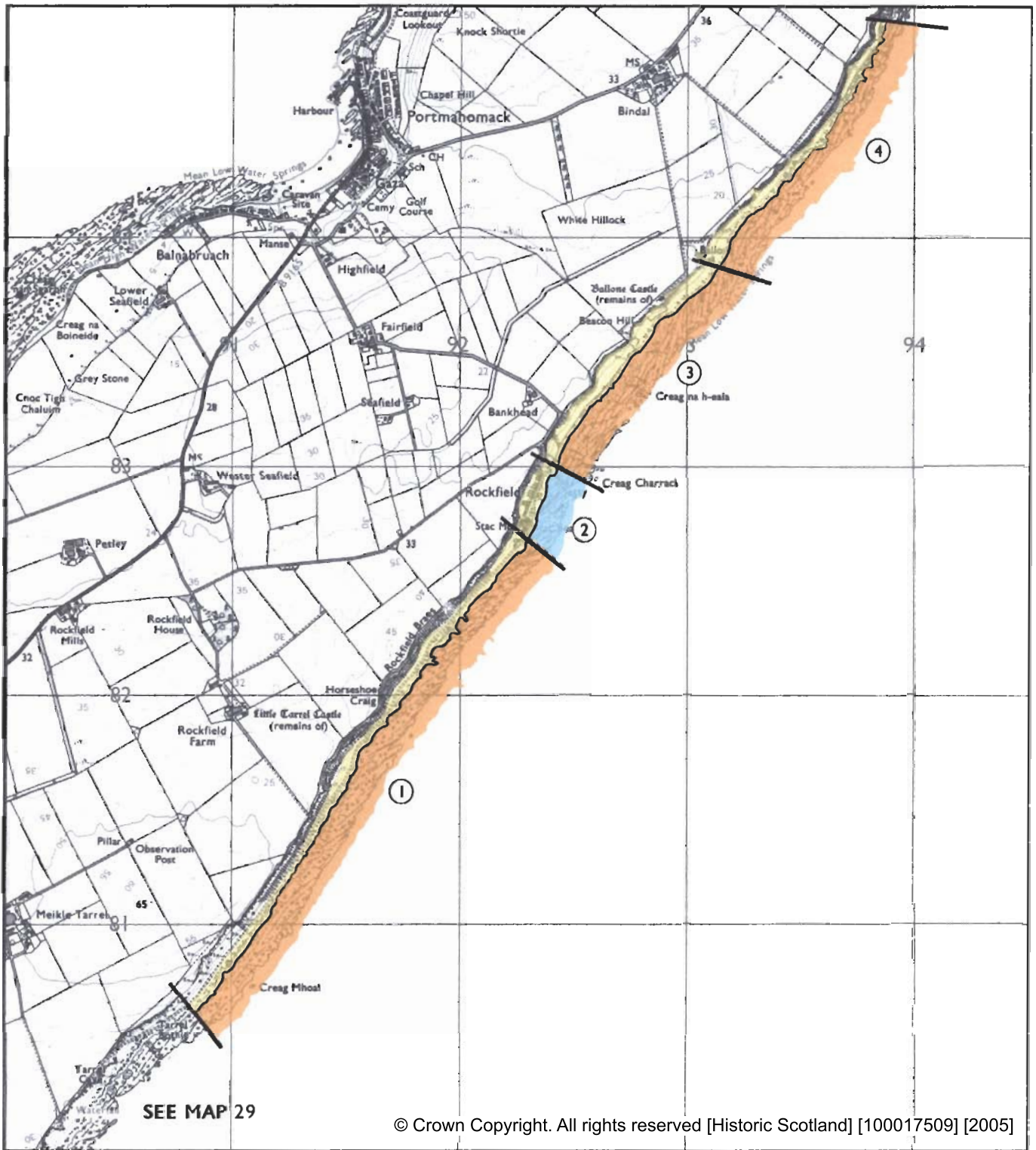
4. East of EASTER BINDAL

NH 936 856

1.3km

Stable or eroding

Incised shoreline of exposed rock platform scoured into a series of discontinuous platforms. Scour and cliff fall is ongoing but at a slow rate.



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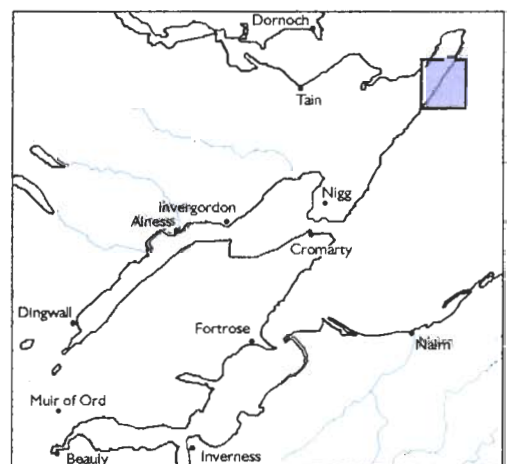
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EROSION CLASS

Assessment date: 24 September 1998

Key:

- Definitely accreting
- Accreting or stable
- Stable
- Eroding or stable
- Definitely eroding
- Both accreting and eroding
- No access
- Land below 10m



MAP 30: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coastal Edge & Foreshore

NH98SW 51
 NH 9082 8065
 MEIKLE TARREL
 Enclosure
 Uncertain
 Poor
 Monitor

NH98SW 29
 NH 9245 8293
 ROCKFIELD
 Pier
 19th century AD
 Good
 Nil

NH98SW 30
 NH 9240 8298
 ROCKFIELD
 Fishing station
 18th/19th century AD
 Good
 Nil

NH98SW 7
 NH 9265 8343
 BALLONE CASTLE
 Chapel; graveyard
 18th/19th century AD
 Poor
 Monitor

NH98SW 39
 NH 9288 8365
 BALLONE CASTLE
 Enclosures
 Uncertain
 Poor
 Monitor

NH 9375 8480
 EASTER BINDAL
 Ruined building
 Uncertain
 Poor
 Nil

Sites in the Hinterland

NH98SW 22
NH 9235 8285
 ROCKFIELD
 Village; houses
 18th/19th century AD
 Good
 Nil

NH 9238 8302
 ROCKFIELD
 Building
 20th century AD
 Fair
 Nil

NH 9242 8310
 ROCKFIELD
 Ruined building
 Uncertain
 Poor
 Monitor

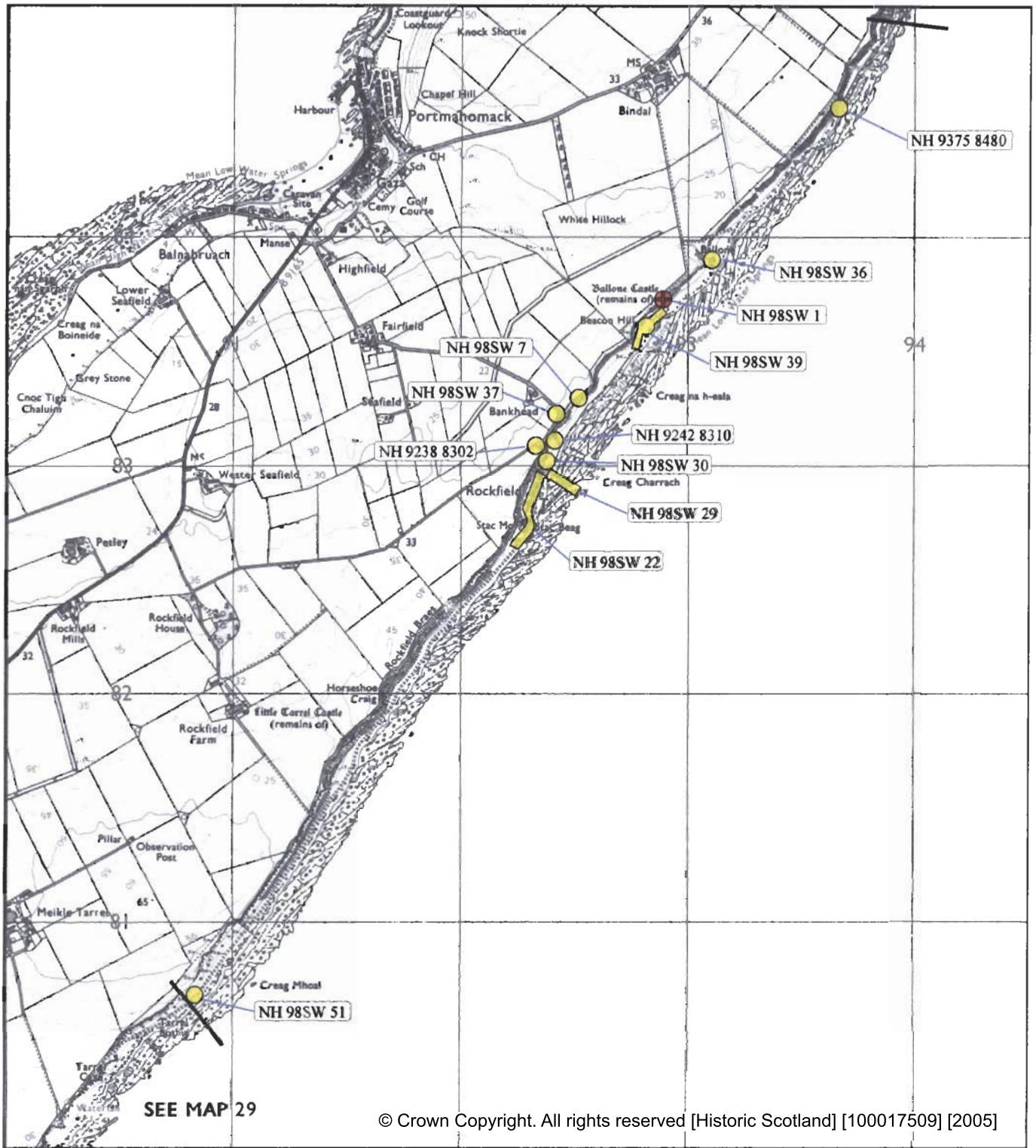
NH 9238 8302
 ROCKFIELD
 Roofed building
 18th/19th century AD
 Fair
 Nil

NH98SW 37
 NH 9242 8310
 BANKHEAD
 Two deserted cottages
 18th/19th century AD
 Fair
 Nil

NH98SW 1 - Scheduled & Listed A
 NH 9288 8373
 BALLONE CASTLE
 Residential castle
 16th/17th/18th centuries AD
 Good
 Nil

Sites in the Hinterland

NH98SW 36
 NH 9309 8390
 BALLONE MILL
 Water mill; pond
 18th/19th century AD
 Poor
 Monitor



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BUILT HERITAGE AND ARCHAEOLOGY

Assessment period: September 1998

Key:

Protected Ancient Monument, or area of designated wreck

Listed Historic Building

Monument formally proposed by Historic Scotland for scheduling, or wreck for designation

Other known Ancient Monuments, or Undesignated wreck

Designated Landscape

Insufficient information; more work needed

Probably archaeologically sterile

