

MAP 3: DUNGAMEN BAY TO LONGRIGG PLANTATION

Hinterland Geology and Coastal Geomorphology: The hinterland geomorphology consists mainly of well formed raised shorelines which are sub-parallel to the shore. Typically these deposits contain layers of sand, gravel and boulders that exhibit a moderate degree of stratification. Fluvioglacial sands and gravel occur at Terally Bay. The shoreline geomorphology consists of a fairly irregular shoreline forming bays at the aforementioned Terally Bay and New England Bay. The beach is mostly sand with shingle banked at the HWM. Greywackee rock assigned to the Wenlock Series outcrops along the shore at Terally point and between Logan Mills and Longrigg Plantation (Unit 3).

Erosion Class: The foreshore is classified as accreting or stable from Grennan Point to Myrock Point (Unit 1) as shingle and sand form a noticeable berm at the HWM. New England Bay has a concrete sea wall and is protecting the sandy foreshore that is stable. The wide foreshore up to Logan Mills is stable and consists of shingle, boulders and sandy spits. From Logan Mills to Longrigg Plantation (Unit 3) the foreshore is dominated by outcropping greywackee rock platform which has been scoured into a series of shallow gullies. However due to the resilience of this material erosion is considered to be very slow.

Built Heritage & Archaeology: The archaeology of this section is concentrated in two clusters; one consisting of a standing stone, a long cist cemetery, a possible motte and a disused coal store at Terally Bay, and another group of sites at Logan Mills consisting of a sawmill, a windmill, a boat shed and a boat noost. The first group includes sites ranging in date from prehistory to the nineteenth century, while the second group has a much tighter range of dates from the seventeenth to the twentieth centuries. The coastal sites are generally slowly abrading, whether through natural deterioration or coastal erosion. The sites in the hinterland, which include several disused buildings, are suffering from natural deterioration.

Map 3: Hinterland Geology and Coastal Geomorphology

1. KILSTAY BAY to TERALLY POINT

NX 128 394

2.7km

Cliff (< 10)

Till, raised beach

Steep raised beach deposits and till form the major deposit over the hinterland of this unit. Concrete sea walls have been built to protect the coastal road running alongside Kilstay Bay, Grennan Point and Terally. The foreshore consists of sand and shingle. Rocky outcrops occur at Terally Point.

2. TERALLY BAY to LOGAN MILLS

NX 121 420

3.4km

Cliff (< 5m)

Raised beach and till

The hinterland of this unit consists of raised beach and till deposits with a low cliff edge. The foreshore has been protected at Terally Bay by a sea wall. The intertidal area is wide in parts with cleaved greywacke exposed at Terally Point. Terally Bay and New England Bay beaches are strewn with poorly sorted boulders. Other areas within the bays are covered with sand. Boulders and sand continue to Portacree.

3. LOGAN MILLS to LONGRIGG

PLANTATION

NX117 440

1.3km

Low edge (< 5m)

Raised beach & mainly rock platform

Raised beach deposits dominate the hinterland of this unit. The foreshore consists of cleaved steeply dipping greywacke platforms. These shelves are vertical in places.

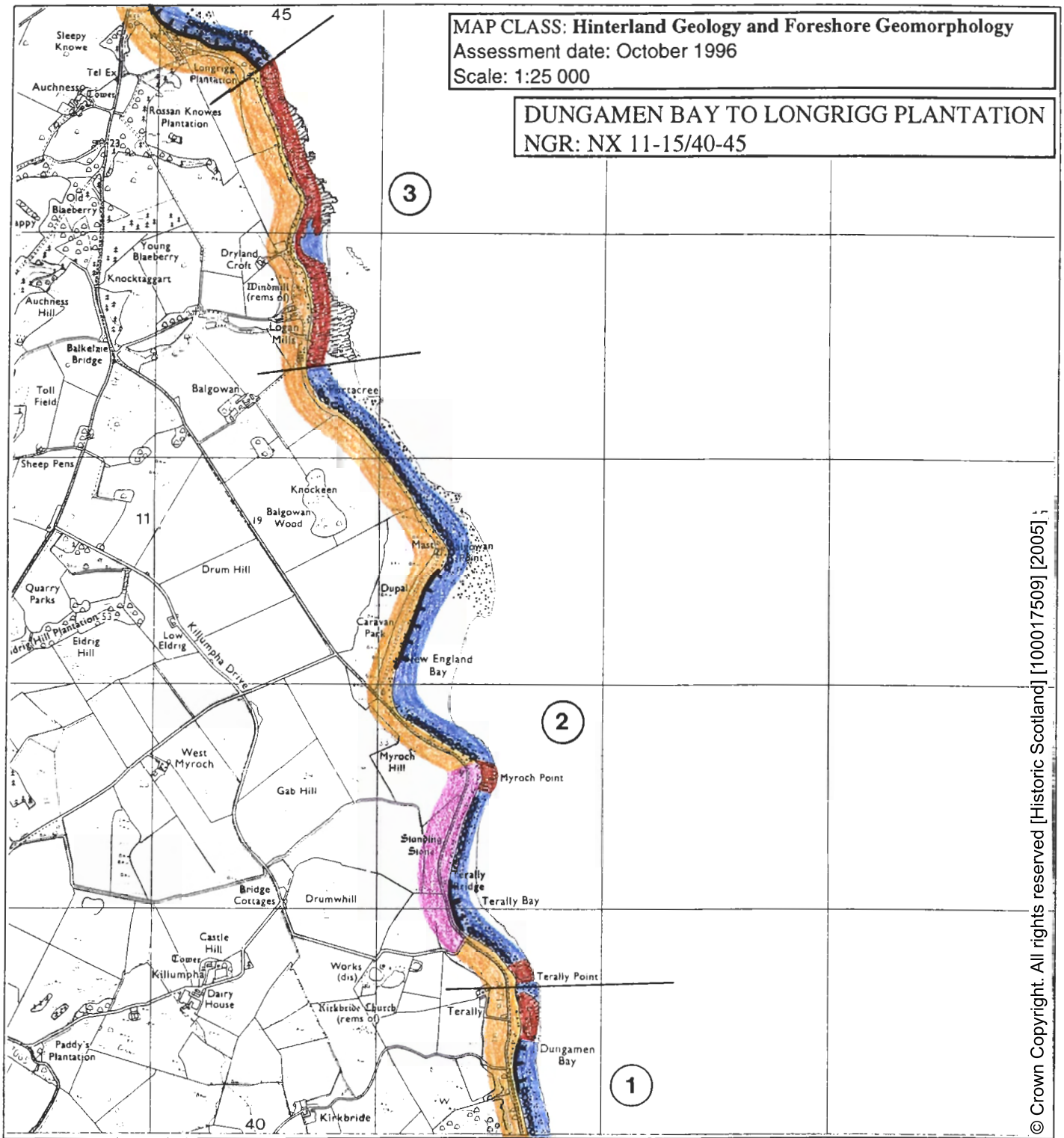
MAP CLASS: Hinterland Geology and Foreshore Geomorphology

Assessment date: October 1996

Scale: 1:25 000

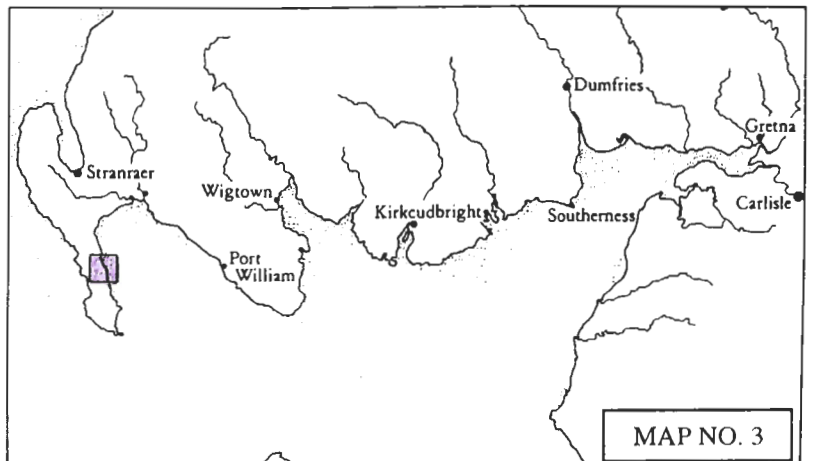
DUNGAMEN BAY TO LONGRIGG PLANTATION

NGR: NX 11-15/40-45



KEY

Hinterland Geology	Derwent Code	Colour
Drift, boulder clay	French Grey	
Drift, boulder clay over visible rock	Dark Violet	
Raised beach and marine deposits	Golden Brown	
Blown sand	Pink Madder Lake	
Glacial sand and gravel	Magenta	
Alluvium	Emerald Green	
Coastal Geomorphology		
Mainly rock platform	Deep vermilion	
Mainly sand	Ultramarine	
Mainly alluvial/marine mud	Venetian Red	
Marsh	May Green	
Coast Edge		
Low edge (<5m)	Thin black line	
Cliff (>5m)	Solid black line	
Man made barrier	Black line with spines	
Shingle beach	Small circles	
Human disturbance	Black carats	



MAP 3: EROSION

1. GRENNAN POINT to MYROCH POINT

NX 127 400

2.8km

Accreting or stable

This unit has a wide intertidal zone that consists of boulders, cobbles and sand. There is evidence of accretion as shingle is banking up at the HWM.

This is noticeable at Path Sands (NX 128396) and at Terally Bay (NX 124410) A concrete sea wall protects the coast road skirting Terally Bay.

Shingle is now banking in front of it.

2. NEW ENGLAND BAY to PORTACREE

NX123 426

2km

Stable

A concrete sea wall protects New England Bay which is predominately sandy and strewn with boulders. The stretch of coast beyond Balgowan Point is a wide intertidal area with a mixture of boulders and sandy spits. In general terms the coastline appears to be stable and accreting in other parts.

3. LOGAN MILLS to LONGRIGG

PLANTATION

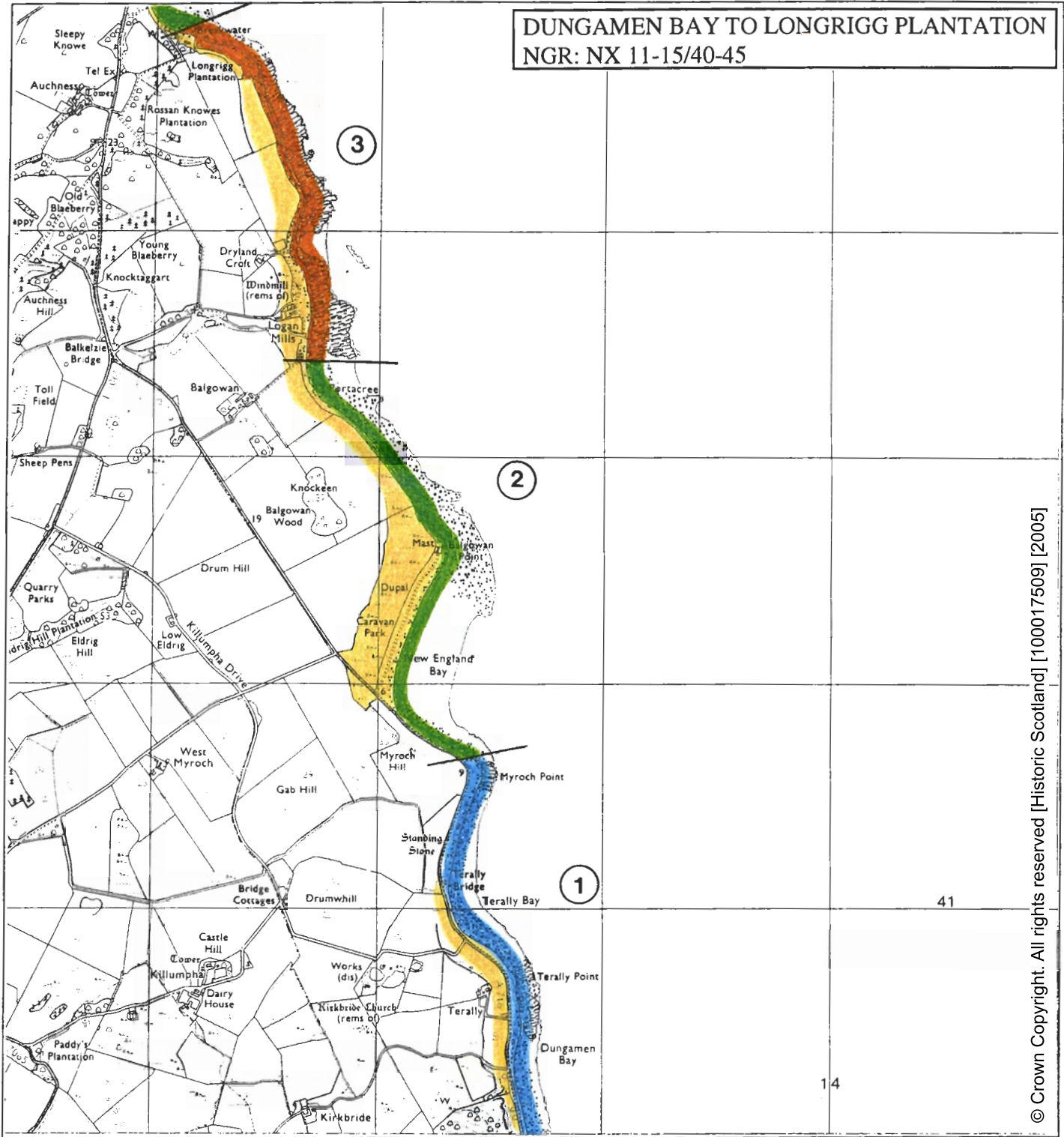
NX116 440

1.5km

Eroding or stable

This unit has an exposed easterly aspect and consists of outcropping cleaved and dipping greywackees. Erosion is occurring albeit very slowly as the base of the rock is abraded.

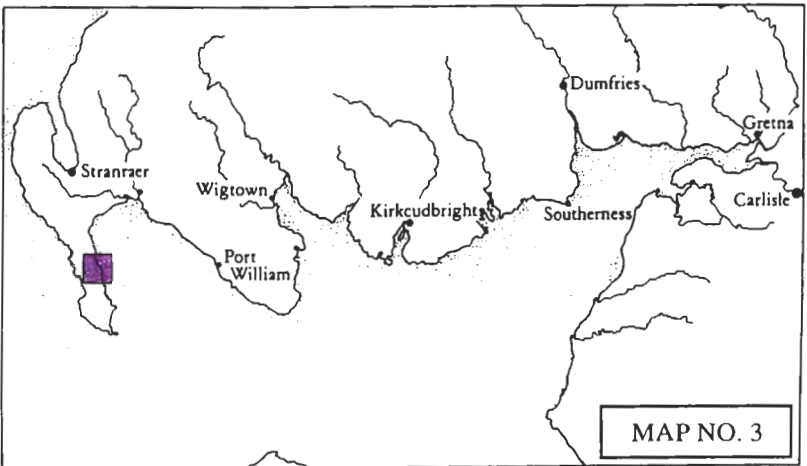
DUNGAMEN BAY TO LONGRIGG PLANTATION
 NGR: NX 11-15/40-45



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Erosion class	Derwent Code	Colour
Definitely accreting	Prussian Blue	
Accreting/stable	Light Blue	
Stable	Grass Green	
Stable/eroding	Deep Chrome	
Definitely eroding	Deep Vermilion	
Both accreting and eroding	Imperial Purple	
No access	Blank	
Land below 10m	Straw Yellow	

MAP CLASS: EROSION
 Assessment date: 20.9.96
 Scale 1:25 000



MAP NO. 3

MAP 3: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coast & Foreshore

NX 1230 4111
TERALLY BAY
Coal Store
Statutory Listed Building
19th century
Fair
Nil

NX14SW 22
NX 1232 4182
NEW ENGLAND BAY
Fish-trap
Uncertain
Poor
Monitor

NX 1167 4392
LOGAN MILLS
Boat Noost
Uncertain
Poor
Monitor

NX 1122 4492
CHAPEL ROSSAN BAY
Breakwater
Uncertain
Fair
Monitor

Sites in the Hinterland

NX 1225 4110
TERALLY
Possible Motte
12 & 13th century
Fair
Nil

NX14SW 8
NX 1227 4123
TERALLY
Long Cist Cemetery; Flints
1st/2nd Mill. AD
Good
Nil

NX14SW 1
NX 1228 4127
TERALLY
Standing Stone
Scheduled Ancient Monument
3rd & 2nd Mill. BC
Good
Nil

NX 1155 4361
LOGAN MILL
Sawmill
Statutory Listed Building
Early 19th century
Good
Nil

NX 1163 4376
LOGAN MILL
Fishing Store & Boat Shed
Statutory Listed Building
Late 19th century
Good
Nil

NX 1152 4379
LOGAN MILL
Windmill
Statutory Listed Building
17th century
Good
Nil

