

MAP 20: CROOK OF BALDOON TO EAST OF WIGTOWN

Hinterland Geology and Coastal Geomorphology: This region contains land below 10m, part of the tidal reach of the River Bladnoch and the coast north towards Wigtown. The River Bladnoch meanders in a series of loops as far as Craig Hill. Salt-marsh protected by flood banks is a common feature along the river edge. The coastline north of Wigtown Castle is incised by drainage channels.

Erosion Class: Estuarine fine grained silts form banks at the side of the high tidal flats. These deposits are accreting at a steady rate. The disused harbour at Wigtown is partially in-filled with alluvial silt. The pattern of water movement, and the interaction of tidal currents and wave action, has important consequences for the transport on the tidal flats.

Built Heritage & Archaeology: This section includes a cluster of sites around the river Bladnoch, comprising a group of pillboxes and bunkers around the disused WW2 airfield at Baldoon; all surviving in good condition; a small cluster of various monuments at Bladnoch, including disused railway bridge stands, a flood bank system and a standing stone; and another small group of sites around the periphery of Wigtown. The Wigtown sites comprise the remains of the Castle, the recently renovated harbour and the Martyrs Stake. All three sites in this group survive in good condition. No sites in this section are threatened by coastal erosion. Local tradition maintains that the early medieval town occupied a site more than a mile eastward, on what is now the Wigtown Sands (Graham, 1979, 66). The shifting course of the river Bladnoch, has historically (Graham, 1979, 66), had a detrimental effect on passage to the later harbours. In regard to this dynamic aspect of this part of the coastline, a long term monitoring programme should possibly be recommended.

Map 20: Hinterland Geology and Coastal Geomorphology

1. INERWELL PLANTATION to CROOCK OF BALDOON

NX 447 540

4.5km

Low edge (< 5m)

Saltmarsh and sand and mud flats

Marine or lower estuary of Wigtown Bay. dominated by salt-marsh on the hinterland. The foreshore is sandy intermixed with mud in parts.

2. CROOK OF BALDOON to CRAIGHILL

NX 447 540

4km

Low edge (<5m)

Salt marsh and estuarine mud

Saltmarsh incised with drainage channels protected by breakwaters towards the south. The meandering River Bladnoch is incised with small creeks with well developed saltmarsh.

3. CRAIGHILL to east of WIGTOWN

CASTLE

NX 435 542

2.5km

Low edge (< 5m)

Saltmarsh on meandering low river edge

The hinterland north of the River Bladnoch is protected by flood banks. The shoreline is alluvial silt mainly brought down as suspended sediment down the River Bladnoch.

4. East of WIGTOWN CASTLE to east of

BARSALOCH FARM

NX 464 560

5km

Low edge (< 5m)

Estuarine saltmarsh and tidal mudflats

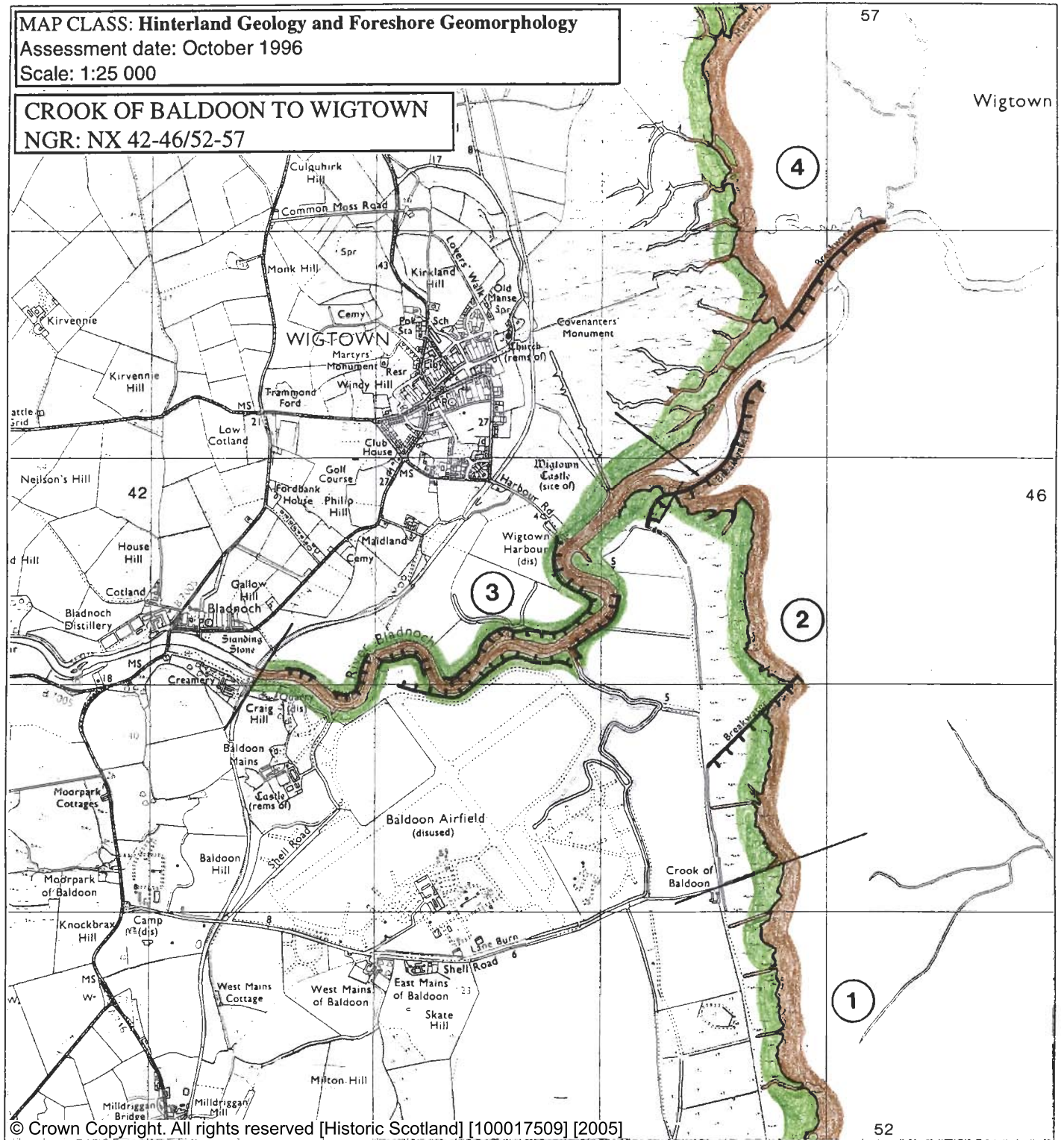
dissected by a network of drainage channels. The foreshore is exclusively estuarine mud.

MAP CLASS: Hinterland Geology and Foreshore Geomorphology

Assessment date: October 1996

Scale: 1:25 000

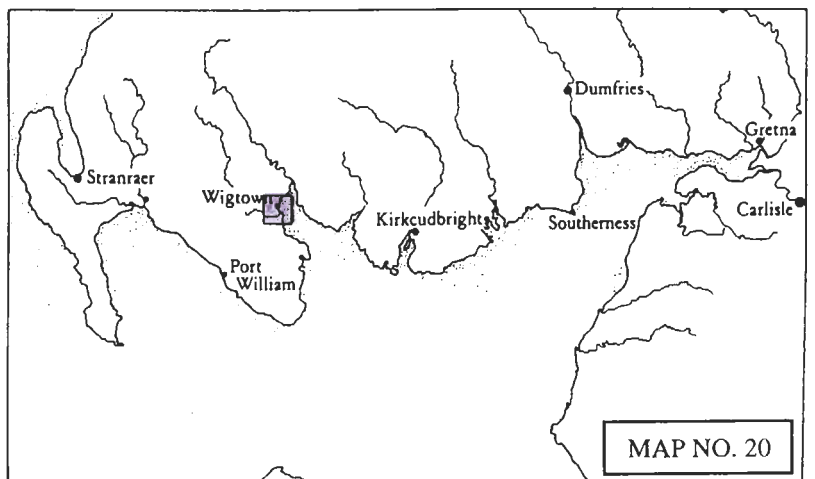
CROOK OF BALDOON TO WIGTOWN
NGR: NX 42-46/52-57



© Crown Copyright. All rights reserved [Historic Scotland] [100017509] [2005]

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 NO. 20

MAP 20: EROSION

1. North of CHAPEL HILL

NX 450 520

5km

Both accreting and stable

This region forms the lower estuary of Wigtown Bay and is a salt marsh (Merse) formed from the reclamation of alluvium development.

Breakwaters have been employed to reduce sediment drift along the coastal edge. Drains intersect the marsh at regular intervals. Mud is accreting forming steep banks. Arcuate slope failure on the inner channel edges near the HWM shows that this region is dynamic and prone to occasional erosion.

2. East of WIGTOWN HARBOUR to the north of WIGTOWN HARBOUR via BLADNOCH BRIDGE

NX 435 540

4.8km

Accreting or stable

This unit takes in Wigtown harbour that is silting up due to none use. The banks of this tidal section is defended by earthwork floodbanks. The river channel meanders and estuarine mud is accreting on its banks. This is presumably derived from high sediment loads brought down and back up from outside the River Bladnoch. Channel abrasion appears to be minimal at the moment.

3. North of WIGTOWN HARBOUR to north-west of BARSALLOCH FARM

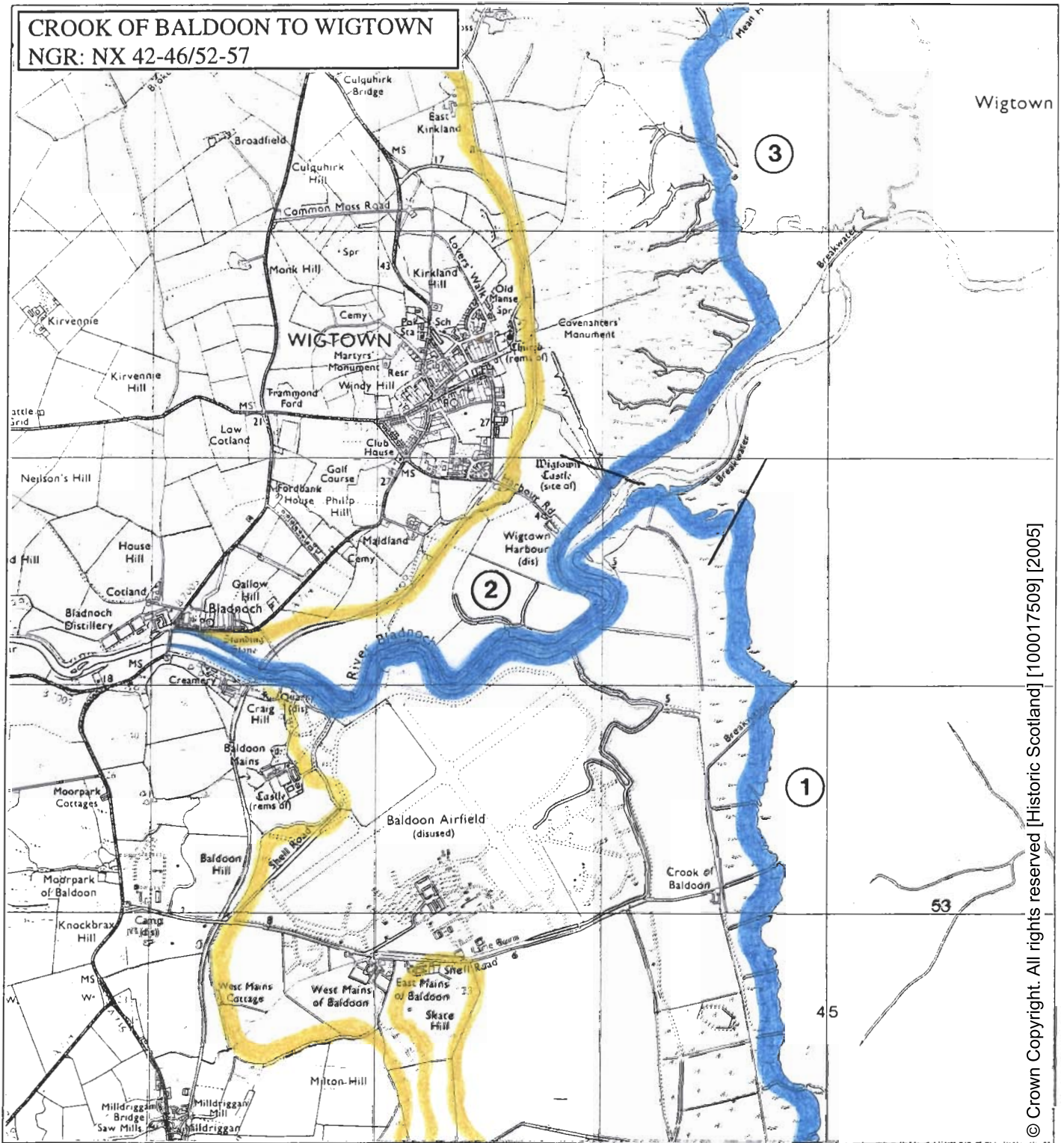
NX 453 575

6.6km

Accreting or stable

This unit is a saltmarsh formed by the formation of alluvium on the east side of the River Cree estuary. This wide stretch of marsh is deeply incised by drainage channels. In places arcuate slope failure is occurring on the edge of some of the channels. Due to the high sediment loading the general trend for this region is accretion.

CROOK OF BALDOON TO WIGTOWN
NGR: NX 42-46/52-57



© Crown Copyright. All rights reserved [Historic Scotland] [100017509] [2005]

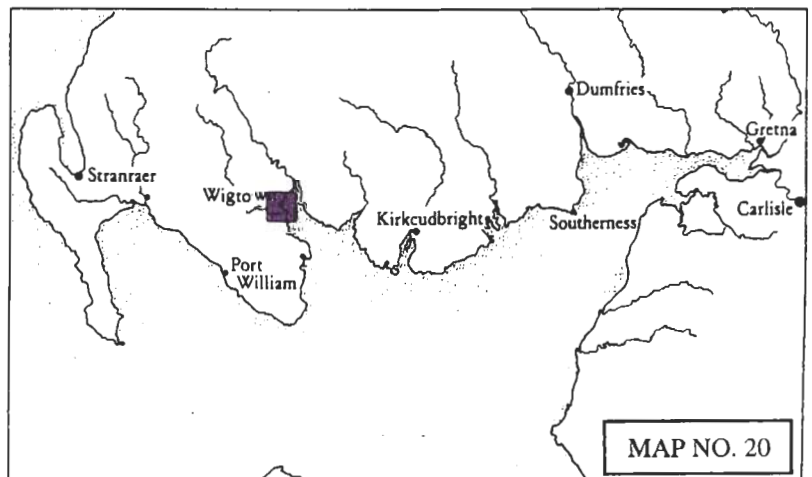
KEY

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: 01.10.96

Scale 1:25 000



MAP NO. 20

MAP 20: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coast Edge & Foreshore

NX 4244 5400
BLADNOCH
Disused Railway Bridge Stands
19/20th century
Fair
Nil

NX 4246 5408
BLADNOCH
Disused Railway Bridge Stands
19/20th century
Fair
Nil

NX 4270 5404
BLADNOCH
Flood Bank System
20th century
Good
Nil

NX 4380 5462
WIGTOWN
Harbour
19/20th century
Good
Nil

Sites in the Hinterland

NX 4331 5396
BALDOON AIRFIELD
WW2 Building
Mid 20th century
Good
Nil

NX 4344 5406
BALDOON AIRFIELD
WW2 Pillbox
Mid 20th century
Good
Nil

NX 4364 5411
BALDOON AIRFIELD
WW2 Pillbox
Mid 20th century
Good
Nil

NX 4275 5385
BALDOON AIRFIELD
WW2 Bunker
Mid 20th century
Good
Nil

NX 4235 5423
BLADNOCH
Standing Stone
3rd/2nd Mill BC
Good
Nil

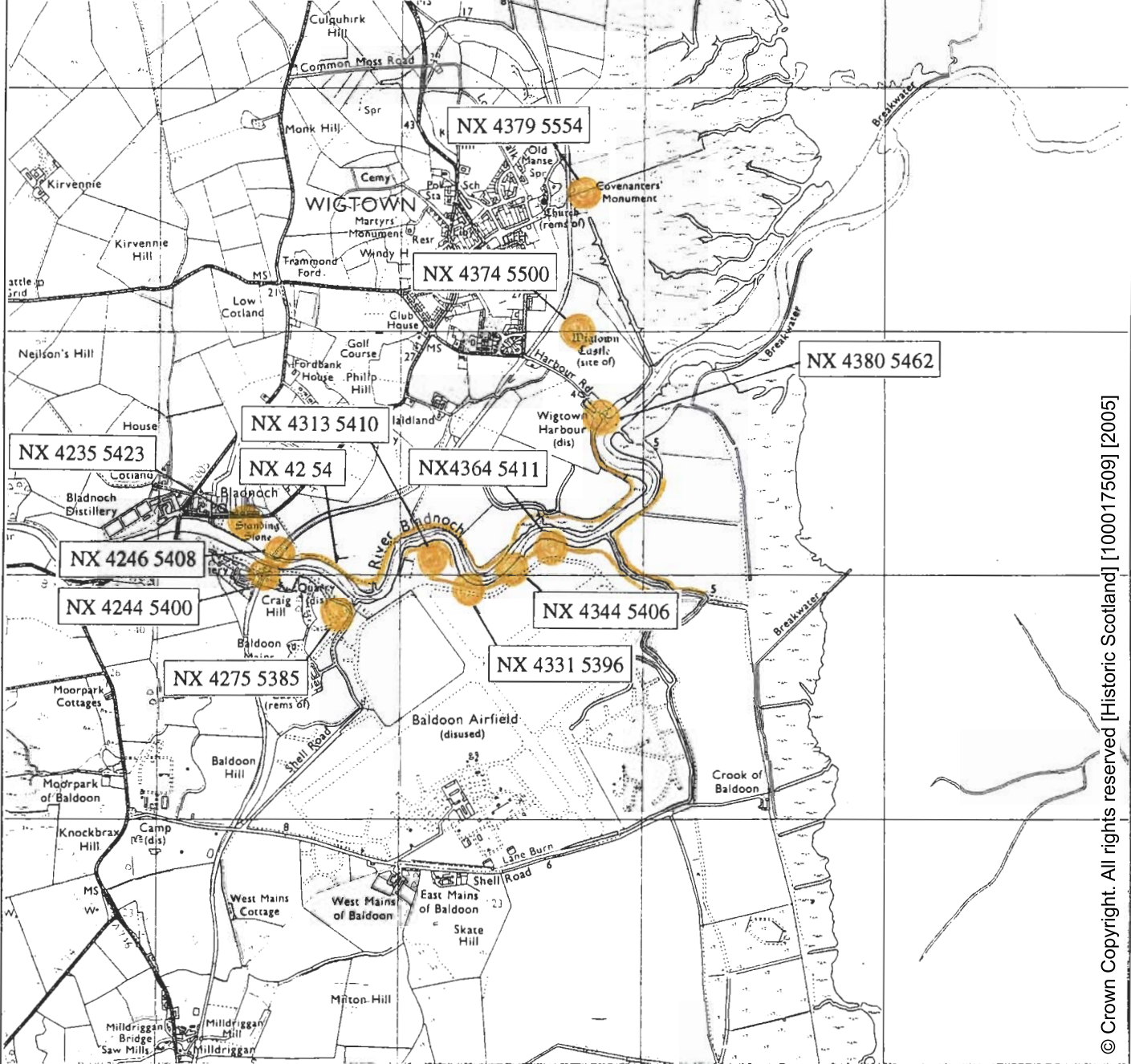
NX 4374 5500
WIGTOWN
Site of Castle
Uncertain
Good
Nil

NX 4379 5554
MARTYRS STAKE,
WIGTOWN
Covenanters Monument
Uncertain
Good
Nil

NX 4313 5410
BALDOON AIRFIELD
WW2 Pillbox
Mid 20th century
Good
Nil

MAP CLASS: Built Heritage and Archaeology
 Assessment date: September 1996
 Scale: 1:25 000

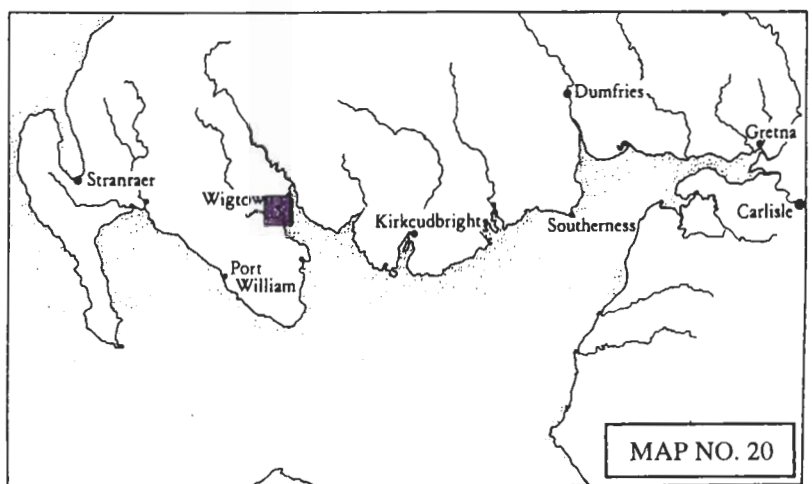
CROOK OF BALDOON TO WIGTOWN
 NGR: NX 42-46/52-57



© Crown Copyright. All rights reserved [Historic Scotland] [100017509] [2005]

KEY

Site location	Symbol	Colour	Significance
NGR ref. - eg.	Roundel - Solid, (or area)	Red	Protected Ancient Monument
	Cross	Red	Listed Historic Building
NX 143 368	Roundel - Open, (or area)	Red	Monument formally proposed by Historic Scotland for designation
NMRS ref. - eg.	Roundel - Solid, (or area)	Yellow	Other known Ancient Monument
	Dashed outline	Yellow	Gardens/Designed landscape
	Roundel - Solid, (or area)	Yellow	Undesignated wreck
	Area	Green	Insufficient information; more work needed
NX13 SW17	Area	Blue	Probably archaeologically sterile



MAP NO. 20

