

MAP 44: GILLFOOT TO CARSETHORN

Hinterland Geology and Coastal Geomorphology: This region of the coast forms the outer estuary of the Solway Firth and is very exposed. Tills and glacial deposits overlie an exposed rocky headland at Borron Point. Here cliff recession has exposed wide rock platforms. Northwards the undulating landscape gives way to low lying carse land that lies below 5m O.D..

Erosion Class: Erosion is occurring along this stretch of coast albeit at a slow rate. Gillfoot Bay is exposed and subjected to easterly gales. Offshore stacks and arching at Thirl Stone attests to continued coastal erosion.

Built Heritage & Archaeology: A relatively dense concentration of sites are located along this stretch of the coast. The sites can be divided roughly into two chronological groups; one belonging to the Mesolithic period and the other belonging to the nineteenth and twentieth centuries. The first group includes four flint scatters clustered around Hogus Point and Carsethorn. Located on raised beaches, and therefore *possibly* indicating a *pre* - main glacial marine transgression date, some may include artefacts of the early Mesolithic period (Cormack, 1965; Jardine, 1980). Due to the inherent nature of the rapid field survey, however, it was not possible to closely investigate or locate the flint scatters. The other group consists of sea defences and gardens. The sea defences are suffering from wave action. It is therefore particularly important, in regard to the other archaeological sites on the coastal edge, that monitoring is undertaken in the future. A further site, McCulloch's Castle, belonging possibly to the later prehistoric and medieval periods (Scott-Elliot, 1964), is situated at the edge of the raised beach, and may be suffering from intermittent land slippage (Truckell, pers comm), although the heavily wooded slope of the coast at that point may have a stabilising effect.

Map 44: Hinterland Geology and Coastal Geomorphology

1. SOUTERNESS POINT

NX 975 545

2km

Low edge (< 5m)

Marine deposits over visible rock

Southernness Point is a promontory headland with outcropping folded limestone platforms. The hinterland consists of marine sands and gravels.

2. GILLFOOT BAY to HOGUS POINT

NX 998 580

3.8km

Low edge (< 5m)

Glacial sands and gravel/till over visible rock

This unit contains a fairly regular coastal edge with a headland formed at Boron Point. Here till overlies outcropping argillaceous and sandy limestones. Glacial sands and gravels occur at Powillimount. The intertidal zone is wide consisting of sand and boulders.

3. HOGUS POINT to BURNFOOT

NX 991 599

6.2km

Low edge (< 5m)

Marine sands and gravels

This unit is part of the lower region of the Solway Firth. The coastal edge is uniform with a hinterland of low lying marine sands and gravels overlying Carse clays. The foreshore consists of low lying tidal flats of sand and gravel.

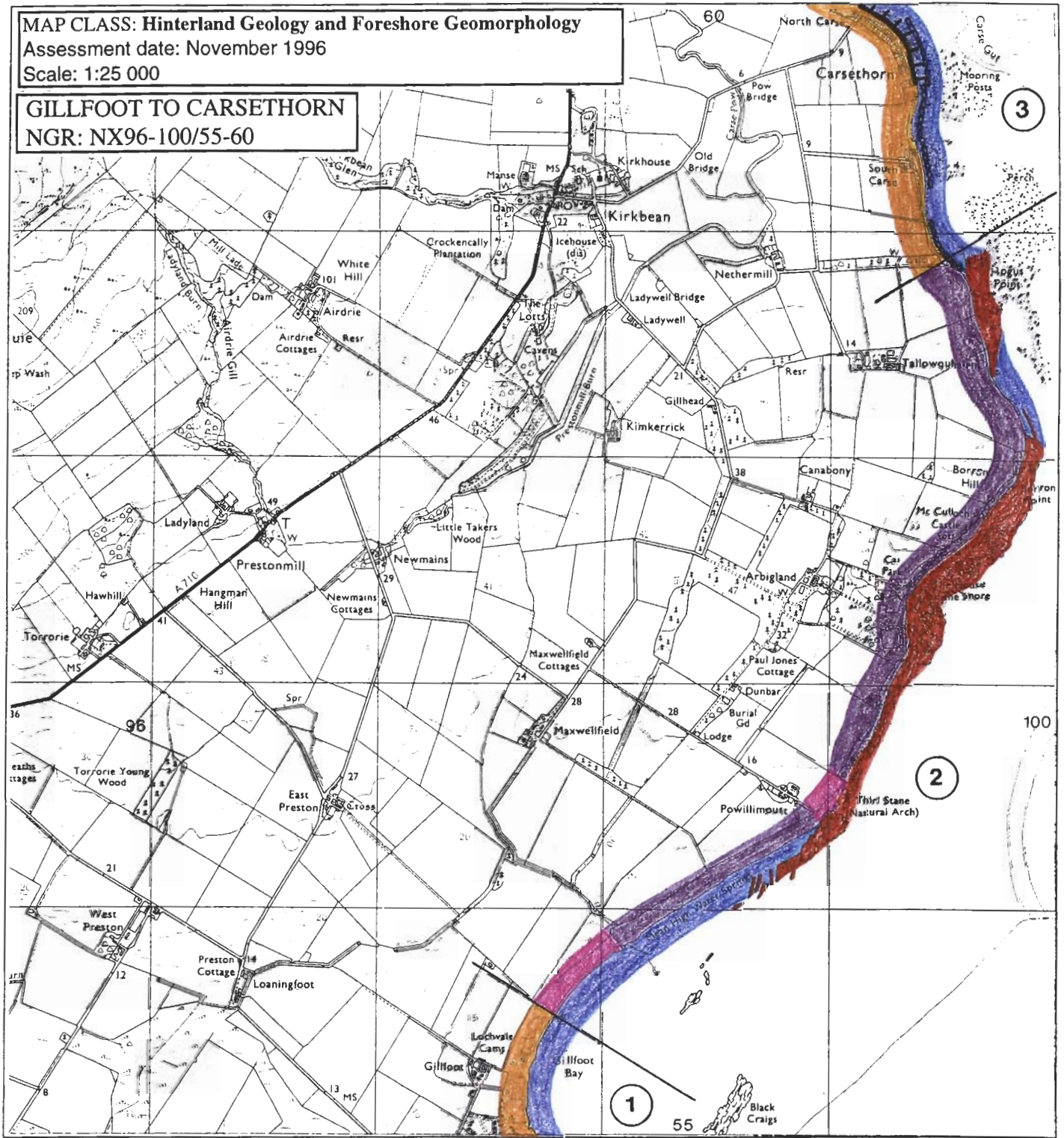
MAP CLASS: Hinterland Geology and Foreshore Geomorphology

Assessment date: November 1996

Scale: 1:25 000

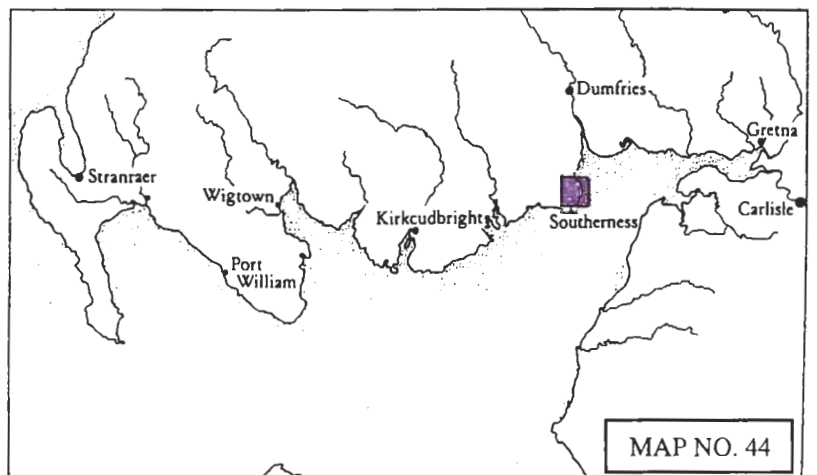
GILLFOOT TO CARSETHORN

NGR: NX96-100/55-60



KEY

| Hinterland Geology | Derwent Code | Colour |
|---------------------------------------|------------------------|--------|
| Drift, boulder clay | French Grey | |
| Drift, boulder clay over visible rock | Dark Violet | |
| Ruised heath 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. 44

MAP 44: EROSION

**1. South of POWILLIMOUNT FARM to
BORRON POINT**

NX 993 570

2km

Definitely eroding

Deeply incised rock platforms with basal erosion due to boulder and shingle abrasion. Gullies have been scoured along fault lines within the Carboniferous Limestone. The rate of erosion is estimated to be slow.

2. BORRON POINT to NORTH CARSE

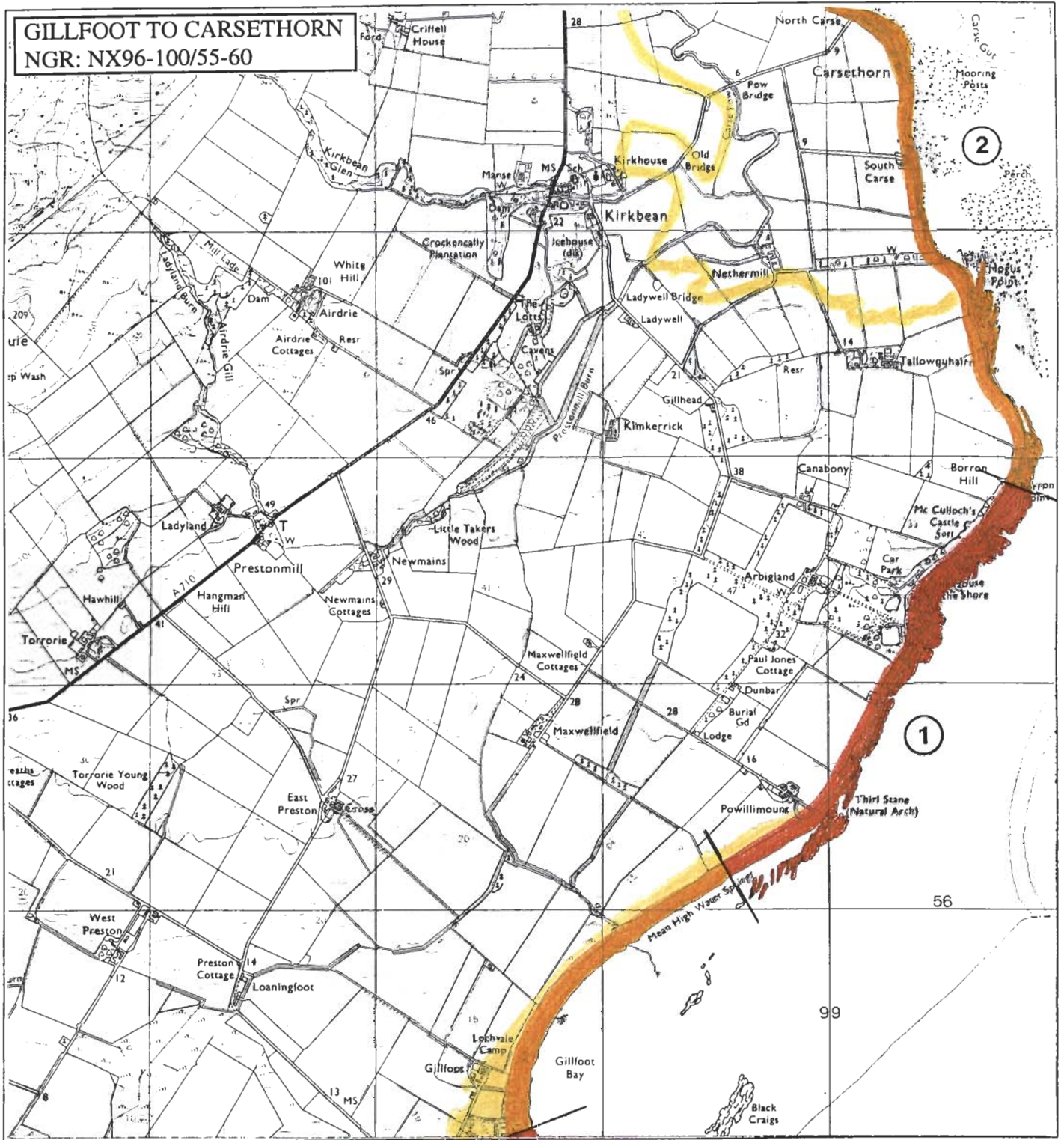
NY 995 590

2.4km

Eroding or stable

Regular coastal edge broken in parts by outcropping rock platforms. Erosion has been reduced at Carsethorn by concrete sea walls and wooden groins. The greatest impact on this section of the coast occurs in stormy conditions when the sea defences are inundated.

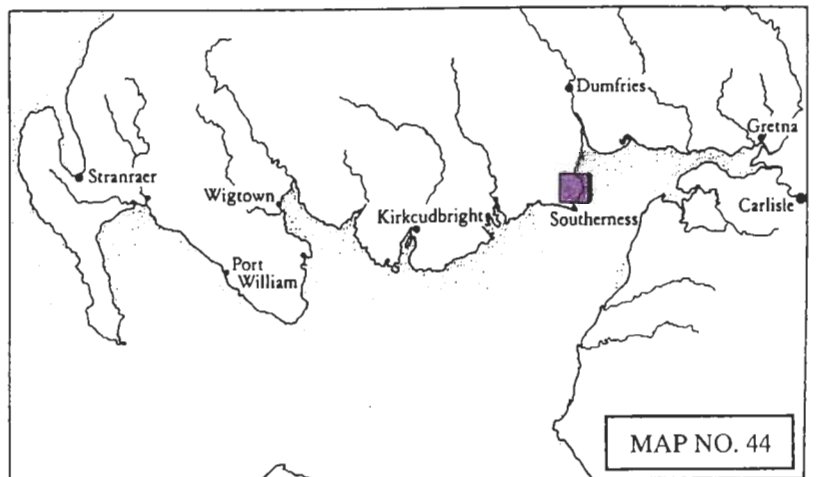
GILLFOOT TO CARSETHORN
NGR: NX96-100/55-60



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: 09.10.96
Scale 1:25 000



MAP NO. 44

MAP 44: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coast Edge & Foreshore

NX 99 56

ARBIGLAND HOUSE

Gardens

19/20th century

Good

Nil

NX 9940 5725

ARBIGLAND

Sea Defences & Fishtraps

20th century

Poor

Monitor

NX95NE 4

NX 9962 5769

MCCULLOCH'S CASTLE

Promontory Fort

Scheduled Ancient Monument

1st Mill BC/AD

Fair

Monitor

NX95NE 14

NX 996 587

HOGUS POINT

Flints findspot

6th to 2nd Mill. BC

Uncertain; not visited

Nil

NX 9942 5948

SOUTH CARSE

Former Sea Defence

Uncertain

Poor

Monitor

NX95NE 12

NX 992 599

CARSETHORNE

Flints findspot

6th to 2nd mill BC

Uncertain

Nil

Sites in the Hinterland

NX95NE 13

NX 998 581

BORRON POINT

Flints Findspot

6th to 2nd Mill. BC

Uncertain; not visited

Nil

NX95NE 40

NX 997 583

TALLOWQUHAIRN

Flints findspot

6th to 2nd Mill. BC

Uncertain; not visited

Nil

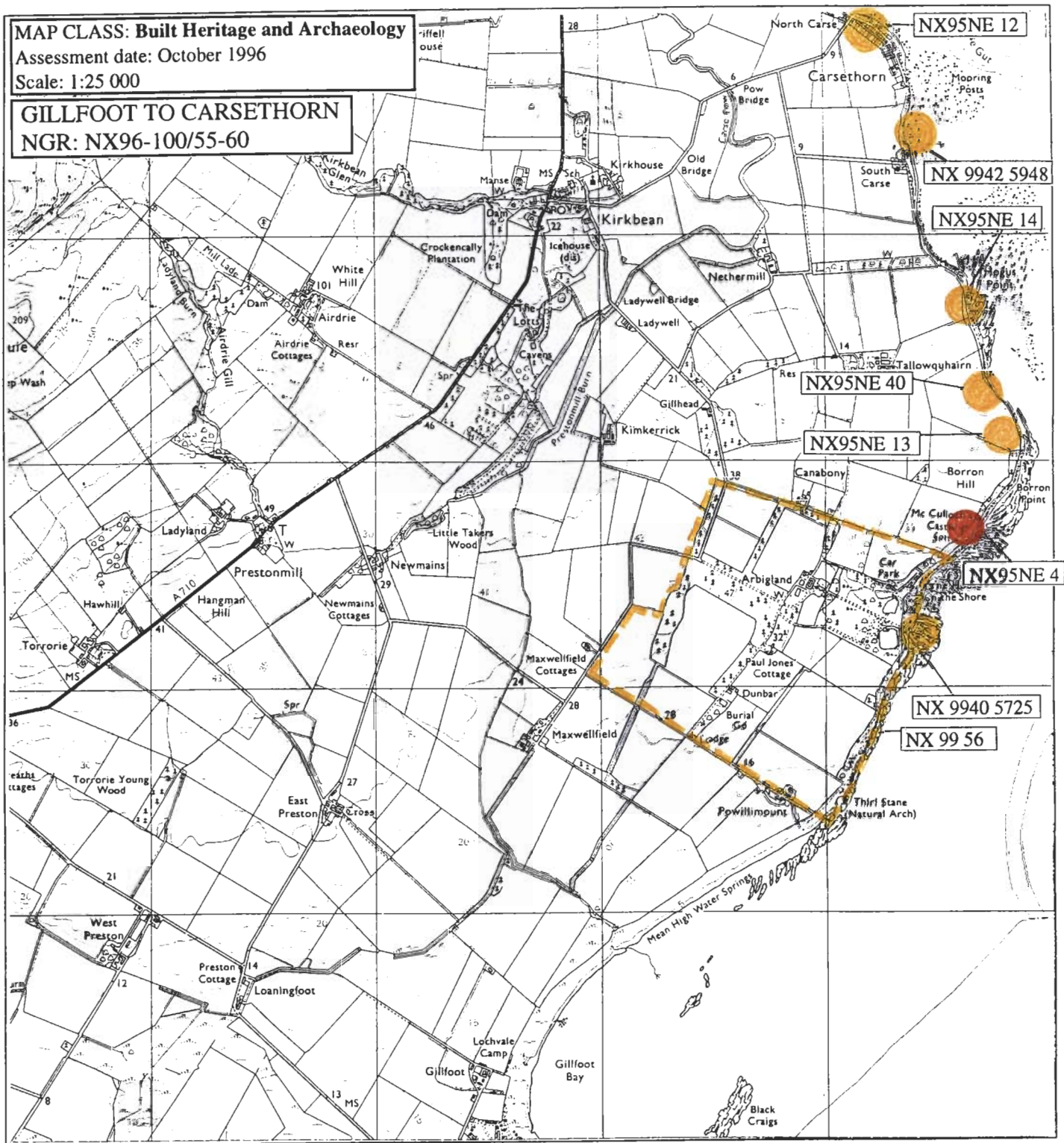
MAP CLASS: Built Heritage and Archaeology

Assessment date: October 1996

Scale: 1:25 000

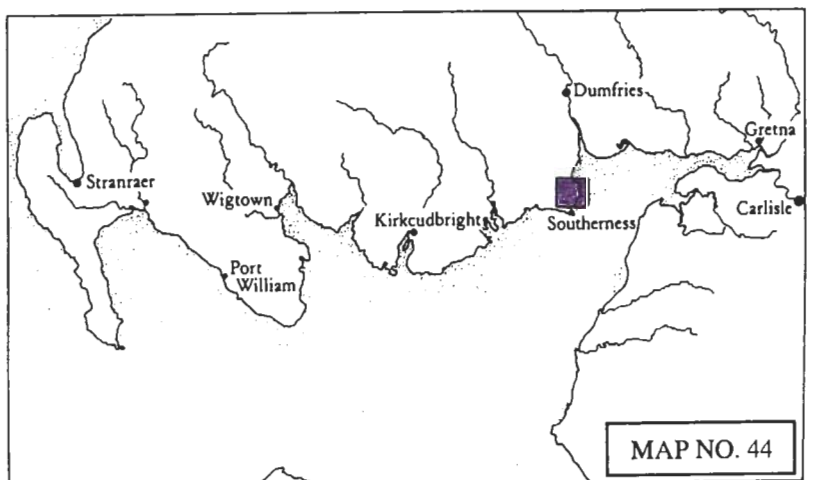
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KEY

| 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 |
| | Roundel - Solid, (or area) | Yellow | Other known Ancient Monument |
| NMRS ref. - eg. | Dashed outline | Yellow | Gardens/Designed landscape |
| | Roundel - Solid, (or area) | Yellow | Undesignated wreck |
| NX13 SW17 | Area | Green | Insufficient information; more work needed |
| | Area | Blue | Probably archaeologically sterile |
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