

IIS International Summer School

Wednesday June 26 2019 10.15 – 11.30

Discover Nature Classroom, Ulster Museum

Exploring the histories of mapping Ireland

By Professor Keith Lilley (k.lilley@qub.ac.uk @profkdlilley)

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The mapping of Ireland's landscapes is as much a part of the island's cultural heritage as the landscapes of Ireland they represent. Indeed, the history of mapping Ireland's landscapes is a long and complex one, closely entwined with the history and geography of Ireland itself. This session looks at examples of historic maps of Ireland, from the Middle Ages through to modern times, to explore this rich heritage and particularly its (post-)colonial contexts.

### The session comprises:

- 1. A study of mapping Ireland's landscapes through the ages, with particular reference to:
  - a. Maps and surveys of the Plantation of Ulster of the early-seventeenth century;
  - b. Ordnance Survey (OS) mapping and survey of Ireland in the nineteenth century.
- 2. A visit to the current Ulster Museum exhibition "Purpose and Portrayal--Early Irish Maps and Mapping" to explore how maps tell us about Ireland's changing landscapes as well as revealing histories of the mapping of Ireland.

#### To find out more read:

Andrews J H, Shapes of Ireland: maps and their makers 1564-1839 (Dublin, 1997).

Andrews J H, A Paper Landscape: the Ordnance Survey in nineteenth-century Ireland (Dublin, 2002).

Andrews J H, The Queen's Last Map-maker: Richard Bartlett in Ireland, 1600-3 (Dublin, 2008).

Doherty G M, The Irish Ordnance Survey. History, culture and memory (Dublin, 2004).

Lilley K D and Porter C, 'Mapping worlds? Excavating cartographic encounters in Plantation Ireland through GIS', *Historical Geography*, 41 (2013), pp.35-58.

Margey A, 'Visualising the Plantation: mapping the changing face of Ulster', *History Ireland* 17.6 (2009), pp.42-45, free to view at <a href="http://www.historyireland.com/early-modern-history-1500-1700/visualising-the-plantationmapping-the-changing-face-of-ulster/">http://www.historyireland.com/early-modern-history-1500-1700/visualising-the-plantationmapping-the-changing-face-of-ulster/</a>

ÓCadhla S, Civilizing Ireland. Ordnance Survey 1824-1842, Ethnography, Cartography (Dublin, 2007).

Owen T and Pilbeam E, *Ordnance Survey. Map makers to Britain since 1791* (London, 1992), free to download at: http://www.ordnancesurvey.co.uk/docs/ebooks/map-makers-to-britain-since-1791.pdf

OSI/OSNI, *An Illustrated record of Ordnance Survey in Ireland* (Ordnance Survey of Ireland, Dublin and Ordnance Survey of Northern Ireland, Belfast, 1991).

Swift M, Historical Maps of Ireland (London, 1999).

### For free online resources with interactive map content:

Irish Historic Towns Atlas (IHTA) of Derry/Londonderry:

https://www.ria.ie/digital-prototypes

'Down Survey' of Ireland (1656-1658):

http://downsurvey.tcd.ie/

'Griffith Valuation of Ireland' (1847-1864) and historic Ordnance Survey maps:

http://www.askaboutireland.ie/griffith-valuation/index.xml

Historic six-inch to one mile (6") OS maps of Northern Ireland (1830s-1950s):

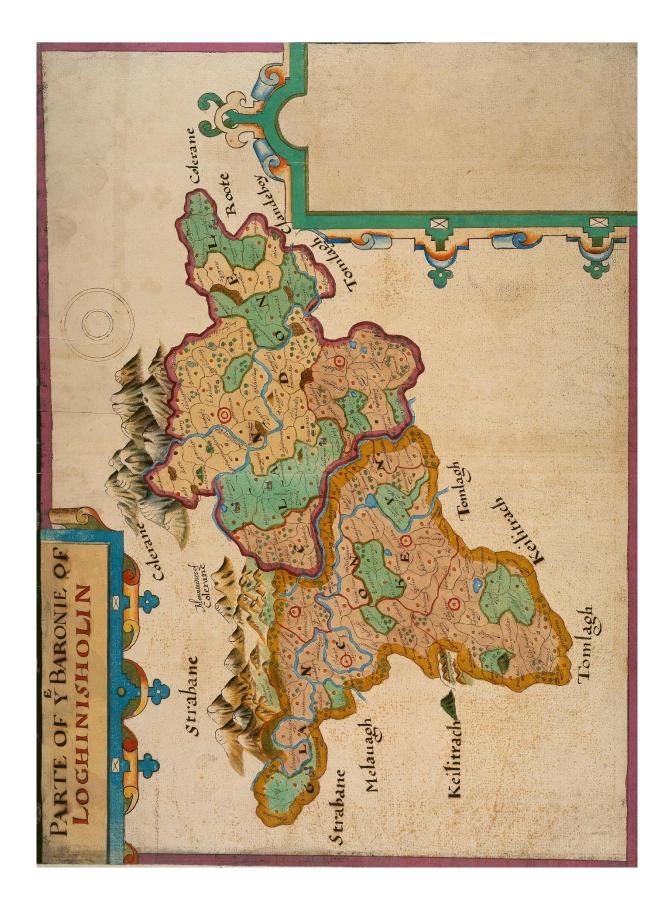
https://apps.spatialni.gov.uk/EduSocial/PRONIApplication/index.html

Historic six-inch (6") and twenty-five (25") inch to one mile OS maps of Ireland:

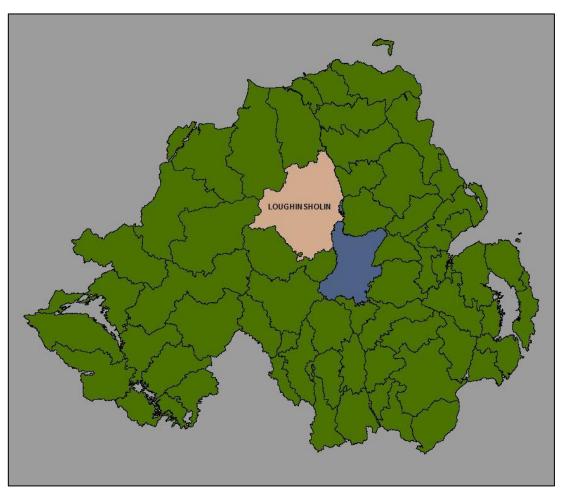
http://www.heritagecouncil.ie/projects/heritage-maps/?p=maps/ http://maps.osi.ie/publicviewer



Richard Bartlett's map of Ulster (1603), TNA MPF1-35(1)



Josias Bodley, Map of 'parte of ye Baronie of Loghinisholin', No. 620, TNA MPF/47. (1609-10)

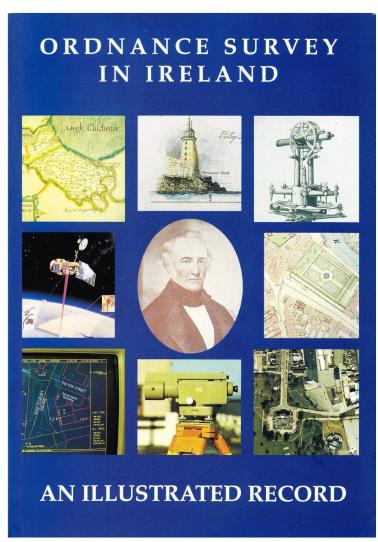




From Lilley K D and Porter C, 'Mapping worlds? Excavating cartographic encounters in Plantation Ireland through GIS', *Historical Geography*, 41 (2013), pp.35-58.



Royal sappers and miners surveying in 1837



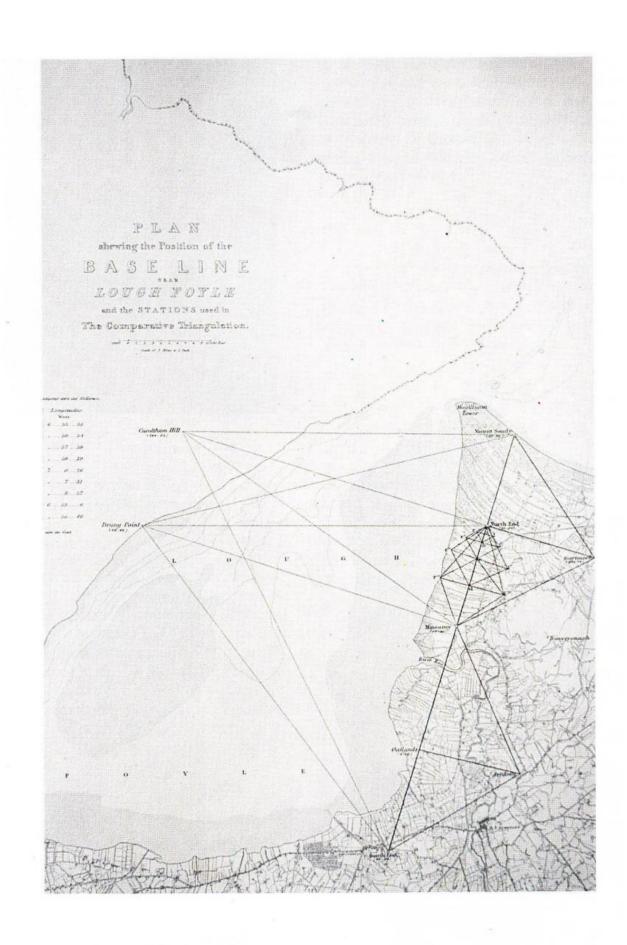
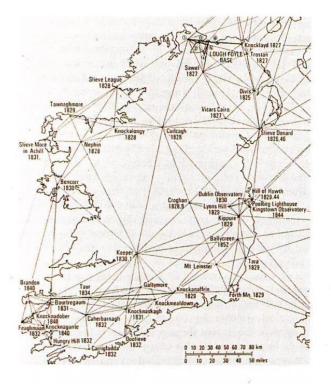


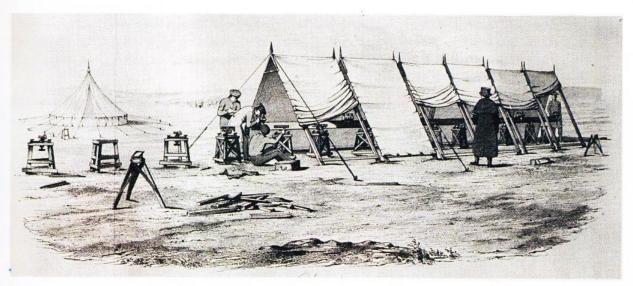
Diagram of the Lough Foyle Baseline



The first task to be completed was to precisely calculate the positions of a framework of points upon which the mapping could be based. This was done by a process of triangulation whereby sightings were taken to distant mountain tops using theodolites.

Some of the primary triangles in Ireland have sides greater than 150 kilometres in length and the argand lamps previously used by the survey were found to be not bright enough over these distances.

The Principal Triangulation of Ireland



Observing the baseline under tenting

The measurement of the baseline began in 1827 and was observed under tenting to minimise fluctuations in temperature. The bars were mounted on tripods and the total distance of 7.89 miles which included the crossing of the River Roe was completed in November 1828 after 60 days of measurement by 70 men. The accuracy achieved is still marvelled at today.

Poolbeg lighthouse in Dublin was Malin Head, Co Donegal in 1958. completed in 1843 and was used levelling related to the datum at extensively until the datum was changed to mean sea level at The primary network of spirit

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SHEWING THE PRINCIPAL LINES SPIRIT LEVELLING IRELAND

MAP

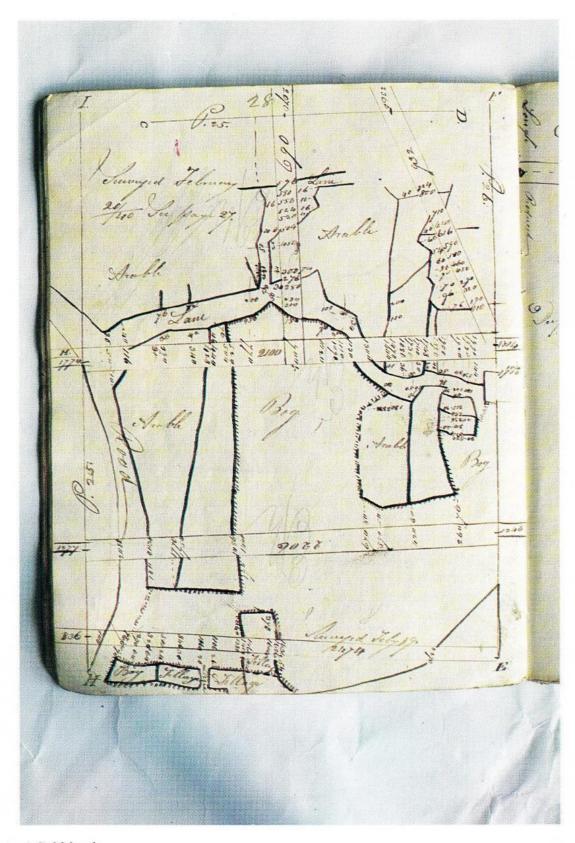
The principal lines of spirit levelling completed in 1843



Types of bench marks used by the Ordnance Survey in Ireland

Bench marks (widely known as "crows feet") related to the datum are sited on of metal bolts in the Republic of Ireland along the road network. Stone masons being cut in Northern Ireland and have only recently been replaced by a range carved "crows feet" and these marks Ireland. These "crows feet" are still Many of these old marks are still in walls, public buildings, bridges, etc. became part of folklore throughout existence and where found by the modern day levelling parties are included in the new network.





Content field book

The theodolite triangles were then further subdivided into chain triangles which were laid out to fit as snugly as possible into each townland. The books used by the field survey parties to note their observations were called content field books which contained two main elements. Firstly, the content register listed the areas of the triangles used to calculate the areas of the townland.





See <a href="http://blogs.qub.ac.uk/gis/2015/11/06/irelands-surveying-heritage-past-present-and-future/">http://blogs.qub.ac.uk/gis/2015/11/06/irelands-surveying-heritage-past-present-and-future/</a>