

A study on preservation and utilization of canal networks as a modernization heritage in England

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Schedules of the ITP Program

- **Period**:20th January 2012 28th March 2012
- Institution Partner: SOAS, University of London, UK
- Collecting Data (Books, Photos, Papers, Statistics, etc.):
 - -SOAS Library, British Library, London Canal Museum, National Waterways Museum
- Survey Schedules (Study Areas):
 - -Regent's Canal, London(21/01/2012 25/03/2012)
 - --Birmingham, Liverpool(22/02/2012 24/02/2012)
 - --Cambridge, Oxford(03/03/2012, 07/03/2012)
 - --North Wales, Chester, Manchester (12/03/2012 15/03/2012)

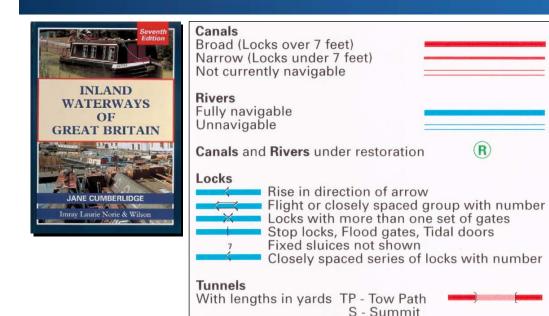


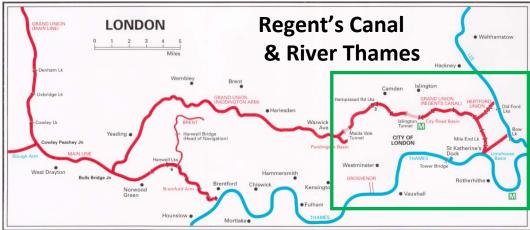
Purpose

- To examine preservation and utilization of major canal networks in England
 - -London, Birmingham, Liverpool, Cambridge, Oxford, North Wales, Chester, Manchester
- To clarify the transition of canal use in England
- To investigate utilization, locks and mooring boats of Regent 's Canal, London
- To collect data (books, photos and statistics) of canal

Create the GIS database of Canal networks in England

The Inland Waterways of Great Britain

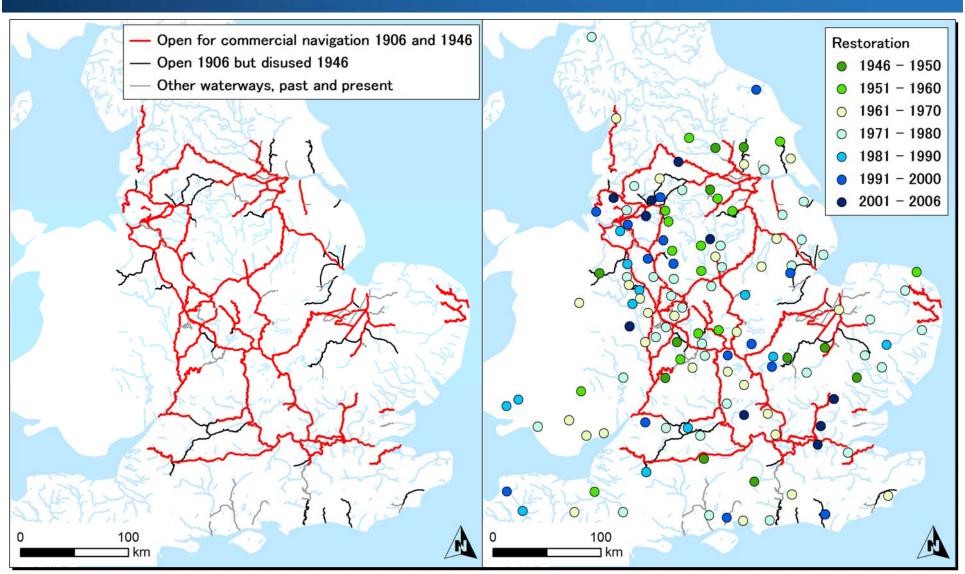






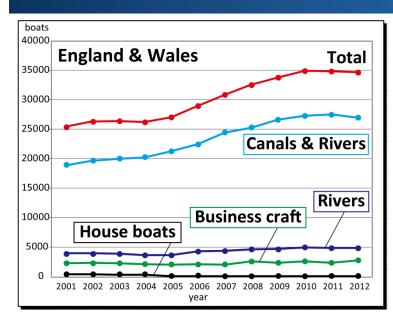
Source: INLAND WATERWAYS OF GREAT BRITAIN 7th

Canals of England: 1906-2006



Source data: Roger Squires "BRITAIN'S RESTORED CANALS",2007

Transition of the number of boats: 2001-2012



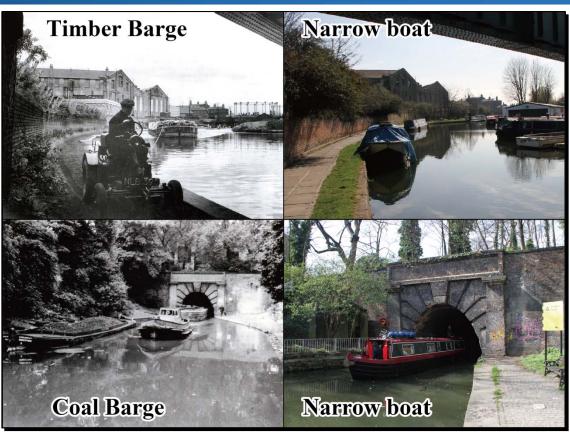
& Wales by British Waterways

Source: British Waterways
"Annual Report and Accounts"

British Waterways:

cared for the 3,540 km network of canals and rivers in England, Scotland and Wales until 2nd July 2012.

→ Canal & River Trust, Scottish Canals



Boat and Barge in Regent's Canal (Left:1950s Right:2012)

Source: Aran Faulkner "The Regent's Canal"

Barge Boat → **Leisure Boat**

Pontcysyllte Aqueduct and Canal





Pontcysyllte Aqueduct and Canal:
World Heritage Site on 27th June,2009.
The Aqueduct, 307m long and 38m above the Dee Valley, was opened in 1805. In this site, Anglo Welsh (Narrow boat Holiday Company) is lending boats.



Major Canals (include Rivers)



Liverpool: River Mersey (to Manchester) Manchester: Rochdale Canal







Ellesmere Port: Manchester Ship Canal



Manchester: Bridge Water Canal



Oxford: Oxford Canal



Ellesmere Port: Shropshire Union Canal Chester: Shropshire Union Canal

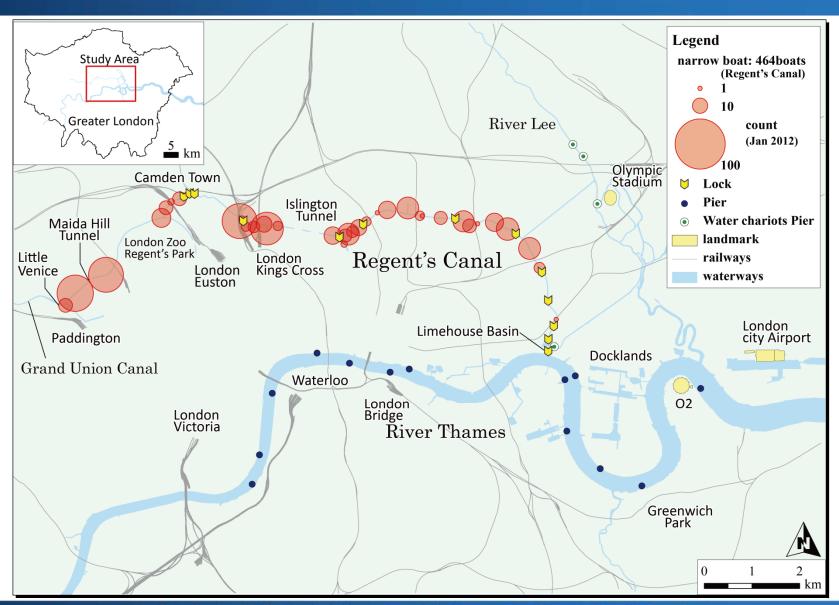




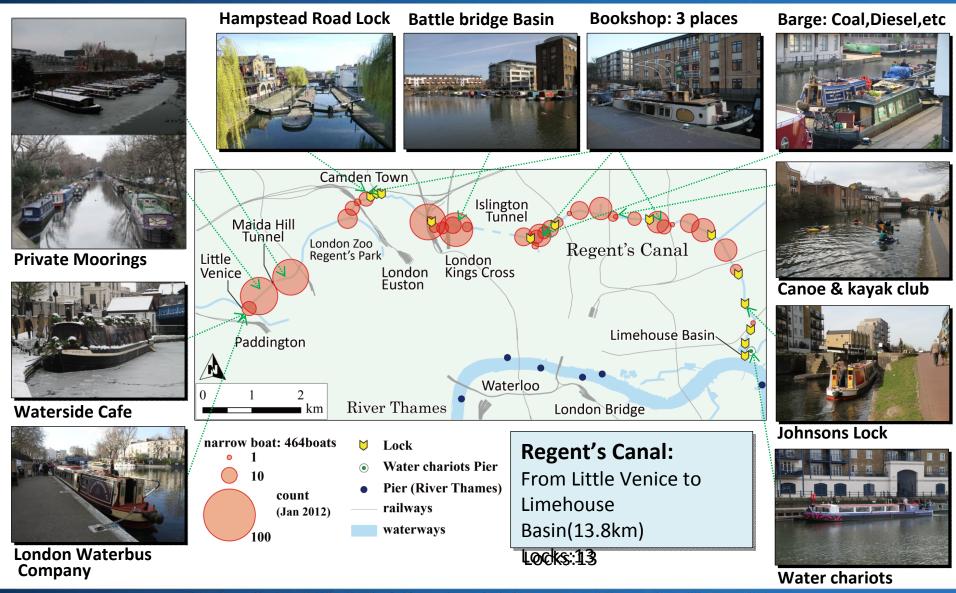
Cambridge: River Cam

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Distribution of narrow boats: Regent's Canal



Utilization of Regent's Canal





Conclusion

- Created a map of the transition of the canals in England from 1906 to 2006. Restoration Projects: 132 sites
- Clarified regional differences of utilization in canals.
 - -number of narrow boat, barge and lock
- Constructed the GIS database of the mooring boats, locks in Regent's Canal. (other canal's data is forthcoming)
- Distribution of narrow boats (464 boats) in Regent's Canal.
- Utilization of Regent's Canal is mainly leisure.
 - -Commercial Barge, Cargo and Tanker in River Mersey, River Thames and Manchester Ship Canal.



Future Works

- Investigate a historical transition and seasonal changes of transportation (coal shipping, etc. before 1950).
- Collect new materials (statistics, photos, papers, etc.)
 from Waterways Archive, Records office in England and add data to the GIS database.
- In the future, wants to share the GIS database with researchers of the project of the Historical GIS Research Network in UK.