“STRATA”

SMITH:

THE SURVEYOR WHOSE MAP CHANGED THE WORLD!
WILLIAM "STRATA" SMITH
BORN AT CHURCHILL
MARCH 23, 1769
The Map That Changed the World

William Smith and the Birth of Modern Geology

Simon Winchester

NEW YORK TIMES BESTSELLER

Author of the International Bestseller
THE PROFESSOR AND THE MADMAN
Figure 1. Reference map of the area around Sutton Court, Stowey, Farrington Gurney, and High Littleton, Somerset.
LOCALITY PLAN

CHURCHILL, OXFORDSHIRE
AND THE COTSWOLDS
WILLIAM SMITH (1769-1839) STAYED WITH
EDWARD WEBB (SURVEYOR) IN THIS HOUSE
FROM 1787 TO 1791. SMITH'S PIONEERING
GEOLOGICAL MAP OF BRITAIN IN 1815
EARNED HIM THE TITLE
"FATHER OF ENGLISH GEOLOGY"

STOW AND DISTRICT CIVIC SOCIETY
RUGBOURNE FARM WHERE SMITH LIVED FROM 1791-95
SMITH’S DIARY WITH EXAMPLES OF THE SURVEYING EQUIPMENT HE USED – CIRCUMFERENTOR, GUNTER’S CHAIN & PANTOGRAPH.
PENTLOW HALL ESTATE
the Property of the
REV. E.W. MATHEW,

Containing

In Paddock       355.3.3
In Grazingland   36.3.3
Total            391.6.6

REFERENCE.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of Fields</th>
<th>Acres, Perches, Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Garden, Holt, Stable Grounds</td>
<td>4.4.10</td>
</tr>
<tr>
<td>2</td>
<td>Garden</td>
<td>3.3.0</td>
</tr>
<tr>
<td>3</td>
<td>Outbuildings</td>
<td>2.2.2</td>
</tr>
<tr>
<td>4</td>
<td>Hedgerows</td>
<td>5.5.10</td>
</tr>
<tr>
<td>5</td>
<td>Middle Channels</td>
<td>4.4.30</td>
</tr>
<tr>
<td>6</td>
<td>Outer Boundaries</td>
<td>6.6.3</td>
</tr>
<tr>
<td>7</td>
<td>Middle Fences</td>
<td>5.4.2</td>
</tr>
<tr>
<td>8</td>
<td>Middle Fences</td>
<td>6.2.0</td>
</tr>
</tbody>
</table>

Note: The map contains detailed land divisions and references to various fields and areas, including gardens, hedges, and buildings. The reference table lists specific areas with their exact measurements in acres, perches, and feet.
CHELMSFORD ESTATE PLAN (1591)
LADY ELIZABETH JONES, ONE OF WEBB’S GLAMOROUS CLIENTELE FOR WHOM SMITH SURVEYED HER VAST ESTATE
STOWEY HOUSE OWNED BY LADY ELIZABETH JONES
MARKET SQUARE AT STOW ON THE WOLD
WARREN HASTINGS, OWNER OF DAYLESFORD HOUSE. HASTINGS WAS GOVERNOR-GENERAL OF INDIA
DAYLESFORD HOUSE
In the prosecution of the General Survey, frequent opportunities have manifested themselves of enabling us to discover the very erroneous state of our maps. The work itself, will enable any one to draw the same conclusion; for, by laying down on the maps of counties, particularly on Taylor's Map of Dorsetshire, the distances of the intersected objects, as Dorchester Church from Ninebarrow Down, (p. 325,) where an error of nearly three miles is detected in a distance of eighteen, an immediate proof is obtained of their great inaccuracy. Taylor's Map of Dorchester is here specified, because we think it is the most erroneous of any we have examined; yet those of Devonshire and Kent, may be considered as similar specimens of imperfect topography. The only maps which have passed under our notice, worthy commendation, are those of Surrey and Sussex; the former by Mr. Linley and Mr. Crossley, the latter by Mr. Gardner. These maps are indebted to the recent trigonometrical operations for their accuracy. General Roy's afforded data for the Survey of Surrey, and our own copious materials for that of Sussex;
JOHN RENNIE, NOTABLE CANAL ENGINEER WHO ENGAGED SMITH IN 1793 TO MAKE SURVEYS FOR THE SOMERSET COAL CANAL TO JOIN UP WITH THE KENNET & AVON CANAL.
SURVEY PLAN OF SOMERSET COAL CANAL

Dunkerton

Bath in Time
William 'Strata' Smith

The Map That Changed The World
SIR JOSEPH BANKS, PRESIDENT OF THE ROYAL SOCIETY & BENEFACTOR OF AUSTRALIAN DISCOVERY ALSO FIRMLY BACKED "STRATA" SMITH AND HIS FOSSIL ID REVOLUTION!
A Delineation of the Strata of England and Wales, with Part of Scotland; Exhibiting the Collieries and Mines. The Marshes and Fen Lands Originally Overflowed by the Sea, and the Varieties of Soil According to the Variations in the Substrata. Illustrated by the Most Descriptive Names by W. Smith.

To the Right Hon. Sir Joseph Banks Bar. P.R.S. This Map is by Permission, most respectfully dedicated by his much obliged Servant, W. Smith.

Aug. 1, 1815.
A MEMOIR
TO THE
MAP AND DELINEATION
OF THE
STRATA
OF
ENGLAND AND WALES,
WITH PART OF
SCOTLAND.

BY
WILLIAM SMITH,
ENGINEER AND MINERAL SURVEYOR.

LONDON:
PRINTED FOR JOHN CARY, NO. 181, STRAND.
1815.
A DELINEATION OF THE STRATA OF ENGLAND AND WALES WITH PART OF SCOTLAND

"THE MAP THAT MIGHT HAVE BEEN"

WILLIAM SMITH

A COMPILATION OF WILLIAM SMITH’S GEOLOGICAL ATLASES OF ENGLISH COUNTIES [INCLUDING THE UNFINISHED COUNTIES OF CAMBRIDGESHIRE, CHESHIRE, DERBYSHIRE, HAMPSHIRE, HEREFORDSHIRE, LINCOLNSHIRE, MONMOUTHSHIRE, NORTHAMPTONSHIRE, SOMERSETSHIRE AND STAFFORDSHIRE] THE GEOLOGY OF WALES & PARTS OF SCOTLAND AND OTHER UNFINISHED ENGLISH COUNTIES DERIVED FROM SMITH’S 1815 MAP

WILLIAM SMITH MAPS COURTESY OF THE GEOLOGICAL SOCIETY, THE OXFORD UNIVERSITY MUSEUM OF NATURAL HISTORY AND THE UNIVERSITY OF NOTTINGHAM

Peter Wigley (Compiler)

Peter Dolan, John Henry, Tom Sharpe, Hugh Torrens, Dave Williams
William Smith 1769-1839

- Age of canal building - Smith was a canal engineer.
- Smith discovered that different rock formations contain distinct fossil assemblages and that even isolated areas of rocks could be identified in their sequence by the fossils they contained.
- Made a map of England published in 1814-1815
- Strata identified by organized fossils 1816-1819
GEOLOGICAL MAP OF RUTLANDSHIRE, by W. SMITH, Mineral Surveyor.
SCARBOROUGH CITY MUSEUM IN WHICH SMITH EXHIBITED FOSSILS FROM THE YOUNGEST AT THE TOP TO THE OLDEST ON THE LOWEST FLOOR
WILLIAM SMITH DIED AT NORTHAMPTON ON AUGUST 28, 1839 & HIS GRAVE IS AT ST. PETERS CHURCHYARD, MARE FAIR
Simon Winchester next to the rare print of Smith’s 1815 map at ANU, Canberra
JAMES HUTTON AND WILLIAM SMITH
THANK YOU "STRATA" SMITH FOR CHANGING OUR WORLD!