

SUNDIALS IN MUSEUMS OF THE BRITISH ISLES

Ian Butson, Jill Wilson & Tony Wood



The British Sundial Society

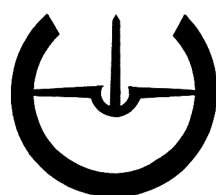
BSS Monograph No. 7

THE BRITISH SUNDIAL SOCIETY

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OF THE
BRITISH ISLES**

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The British Sundial Society

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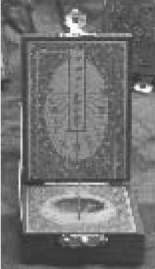
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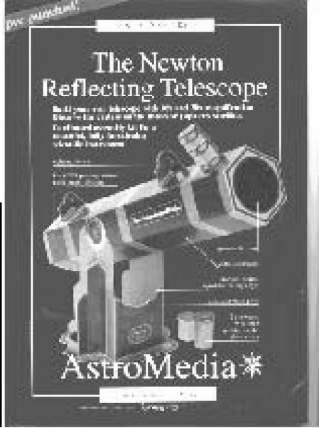
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On the covers

Two dials from the John Gershom Parkinson Collection at the Moyses Hall Museum, Bury St Edmunds, Suffolk. Photos: Mike Cowham.

Front: A finger-ring dial.

Back: An ivory diptych dial from Nuremberg.

FOREWORD

A large number of museums in this country (and others around the world) have at least one sundial in their collections. This particular survey covers the British Isles and lists all of the museums traced by its authors with details, where known, of dials in their collections. The survey is basically laid out alphabetically in county order, followed by the towns, and their museums, where these dials may be found.

Many of us will already know of the large collections held by the major national, horological or scientific museums. Naturally, these are listed in this survey too, but generally, for precise details of their often extensive dial holdings, we should refer to their own catalogues or web pages. The real value of this survey is to inform us of the many lesser-known dial collections that may be tucked away in some of our provincial, and often small, museums. The majority of these will perhaps only have one or two dials, but these dials may be of special interest to a particular line of research.

When visiting different parts of the UK, the information contained in this survey should be of major value to all those who are interested in sundials and many of us will make a point of visiting the museums listed here to see and study their collections. Where dials are in storage, and not on general public display, we should be able to make arrangements with the museum, in advance, to study these seldom-seen dials. As many of the details supplied directly by the museums are often incomplete, even sometimes in error, I hope that visitors using this survey, will be able to correct and add to the given descriptions for a future edition of this work.

The survey also includes useful cross-references of Dial Types and of Sundial Makers, so that anyone doing research into these specific fields will be well served. I certainly look forward to using it myself and seeing some of these dials, in particular Portable Dials, some of which the museums themselves probably have little knowledge about.

As a result of this survey, I am sure that we will see some interesting ‘finds’ to add to our knowledge of all types of sundial.

I sincerely hope that other sundial societies around the world will see our survey and be persuaded to produce similar listings for their own countries.

*Mike Cowham
Cambridge*



The original horizontal dial from the Liverpool Road Railway Station, Manchester, seen here hanging vertically. Courtesy Manchester Library.

British Sundial Society Monographs in this Series

1. C. Daniel: *The Equation of Time: The Invention of the Analemma. A brief history of the subject*, (2006).
2. J. Wilson: *Biographical Index of British Sundial Makers from the seventh century to 1920*, (2007).
3. A. Cook: *Mass Dials on Yorkshire Churches*, (2008).
4. M. Cowham: *A Study of Altitude Dials*, (2008).
5. J. Davis and C.M. Lowne: *The Double Horizontal Dial*, (2009).
6. To be decided.
7. I. Butson, J. Wilson & T. Wood: *Sundials in Museums of the British Isles*, (2010).
8. D. Scott & M. Cowham: *Time Keeping in the Medieval World – A study of Anglo-Saxon and early-Norman sundials*, (2010).

Museums Survey - Introduction

The *Register of Fixed Dials* produced by the Society does not, in general, include dials held in museums. It is supposed that such dials are adequately catalogued and described. However, for research purposes it is necessary at least to know that these dials exist. This publication provides a listing of museums with sundials, together with a brief description of their principal holdings.

‘Stately homes’, in addition to museums, were also contacted as many are members of the Museums Association. The major national collections are noted but no listings are given as information about them is readily available. The replies contained a wealth of information and follow-up visits were made to study some of the dials described. Makers’ names have been passed on to Jill Wilson, author of the Society’s *Biographical Index* (monograph no. 2) and other dials have been notified to members carrying out research.

Particular acknowledgement must be made to Simon Trapnell, Manager of the ‘Nature in Art’ Museum in Gloucester, for his help and loan of Museums Association Year-books. We also gratefully acknowledge Leonard Honey for financial assistance towards the cost of mailing the survey forms and Mike Cowham for providing photographs.

We record our thanks to those Curators who replied to the Survey and trust the contents here will provide a quick reference to the sundials held for us as part of our heritage.

Since it was not possible to contact every existing museum for this survey the authors would be pleased to hear from readers about any other sundials in museums which are not recorded here. The information may then be used for any subsequent updates to this record.

Tony Wood
October 2010

Using the Survey

The listings may be consulted in several ways. The main part of this work provides the information gathered from a survey of museums arranged under individual areas of the British Isles in the same order as in the British Sundial Society's *Register of Fixed Dial Locations* (2005).

As the inclusion of the complete holdings of the collections in certain large national museums would prove unwieldy, these have been omitted; full details may be found in the catalogues of these museums. The location of each of these large collections is noted in the body of the work and a complete list of the museums may be found at the front of this book.

Certain counties or districts appear to be without any dials held in museums. These are included in the main survey with the comment where appropriate that it has been assumed that no response from a museum indicates that it has no sundials in its collection.

No single index is provided. Instead three alphabetical listings show the included museums, named makers and certain specific types of dials, indicating where these may be found in the main survey.

Mindful of the possibility of changes to telephone numbers and e-mail addresses over time, no attempt has been made to provide this information for the listed museums. However, up-to-date details may be obtained by visiting the address of the particular museum via the Internet. Here location details, maps and opening times are also generally displayed. A brief description of the museum and its collections is also usually given.

A select bibliography includes relevant general works.

Major National Collections of Sundials

The Sundials within these collections have not been included within this survey as the numbers involved would be overwhelmingly large. They will also have been accurately recorded within the catalogue of each museum.

BRITISH MUSEUM	Great Russell Street, London, WC1B 3DG
MOYSE'S HALL	Cornhill, Bury St Edmunds, Suffolk, IP33 1DX (Incorporates the collection previously held at the Manor House Museum which is now closed.)
MUSEUM OF THE HISTORY OF SCIENCE	Old Ashmolean Building, Broad Street, Oxford, Oxfordshire, OX1 3A.
NATIONAL MARITIME MUSEUM (NMM)	Romney Road, Greenwich, London, SE10 9NF
NATIONAL MUSEUM OF IRELAND	Collins Barracks, Benburb Street, Dublin 7, Co. Dublin, Ireland
NATIONAL MUSEUM OF IRELAND (Irish Folklife Division)	Turlough Park House, Castlebar, Co. Mayo, Ireland
NATIONAL MUSEUMS OF SCOTLAND (NMS) (ROYAL MUSEUM OF SCOTLAND)	Chambers Street, Edinburgh, Scotland, EH1 1JF. Also, Queen Street, Edinburgh, EH2 1JD
SCIENCE MUSEUM	Exhibition Road, South Kensington, London, SW7 2DD
VICTORIA AND ALBERT MUSEUM	Cromwell Road, London, SW7 2RL
WHIPPLE MUSEUM OF THE HISTORY OF SCIENCE	Free School Lane, Cambridge, CB2 3RH

See also page 58 for details of these museums' catalogues

ABBREVIATIONS

for frequently used references.

Acc. No.	Accession Number.
BSS	British Sundial Society.
Cat. No.	Catalogue Number.
EH	English Heritage.
EoT	Equation of Time.
GMT	Greenwich Mean Time (= Universal Time)
ID No.	Identity Number.
Inv. No.	Inventory Number.
Mus. No.	Museum Number.
NMM	National Maritime Museum.
NMS	National Museums of Scotland.
NT	National Trust.
NTS	National Trust for Scotland.
Register	Powers, Patrick, <i>British Sundial Society Register of Fixed Dial Locations</i> , (2005); see also SRN.
SRN	BSS Sundial Register Serial Number; see also Register.

NOTE. The units used in this document are those that have been indicated in the particular reports received. Dimensions may thus be quoted in Inches (in), Millimetres (mm) or Centimetres (cm).

BEDFORDSHIRE

BEDFORD MUSEUM

Castle Lane, Bedford, Beds., MK40 3XD

Four sundials; (casts of scratch dials), in storage. The casts from local churches, were probably made during the mid-twentieth century.

LUTON MUSEUM SERVICE

Wardown Park Museum, Old Bedford Road, Luton, Beds., LU2 7HA

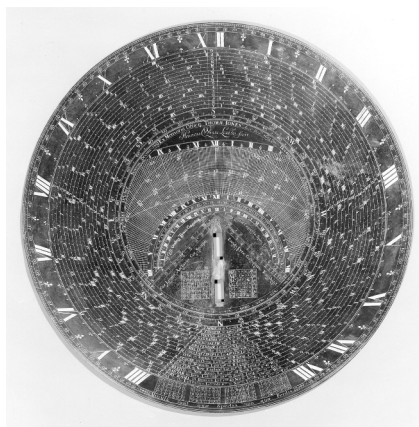
One sundial; in storage; catalogued with other artefacts. This eighteenth century bronze sundial is engraved: "E. Nairne London"; and is 17.3 cm × 17.3 cm. The dial is held in storage with other artefacts. (BL/102/37)

WREST PARK (EH)

Silsoe, Luton, Beds., MK45 4HS

One sundial; on display; catalogued separately; this electrotype replica of the seventeenth century brass horizontal dial by Henry Wynne was made by Colin Slack. It is installed on the original seventeenth century pedestal. SRN 5169

(EH ID No. 88094585)



Courtesy English Heritage

The original sundial by Henry Wynne upon which this replica was moulded is held in the English Heritage (East of England Region), Atcham Store. (EH ID No. 794486)

(There is another unnumbered replica, with mould, on display in the reception area at Fort Cumberland, Portsmouth, Hants.)

The original dial has been inspected in detail by members of the BSS and also referred to in an article on Wynne's double horizontal dial at Staunton Harold, Leicestershire by John Davis and Michael Lowne; *BSS Bulletin* 15(ii), p. 47 (2003).

See also BSS Monograph No. 5 (dial M-6).

BERKSHIRE

READING MUSEUM SERVICE

Town Hall, Blagrove Street, Reading, Berks., RG1 1QH

Five sundials; some on display and some in storage, but items not specified; catalogued separately.

- i Brass sundial with setting ring and loop. Inscribed: "Hang (or Hold) me right and set me well, and I to you ye time shall tell" and "Lowsley". Possibly sixteenth century. (REDMG: 1947.439.1)
- ii Brass sundial with sliding setting ring and loop. Inscribed: "Protor". Possibly sixteenth century. (REDMG: 1947.440.1)
- iii Brass sundial with folding rings in right angle planes and rotating and sliding sight-scale. Inscribed: "Walter Hayes in Moorefields, Londini, fecit"; seventeenth century. (REDMG: 1947.441.1)

iv Brass sundial face: no other details given.

(REDMG: 1972.239.1)

- v Biscuit tin, in the shape of a sundial. Made for Huntley & Palmer as a container to send biscuits to the troops fighting in the Boer War at Christmas 1899. On one side are swallows flying into the early morning sun, on another bats representing night, and on the remaining two, are cupids cavorting in the midday sun. On the lid around the numerals of the sundial are the words "Time Flieth". The gnomon is capable of being folded down for packing purposes.

BRISTOL

BRITISH EMPIRE & COMMONWEALTH MUSEUM

Clock Tower Yard, Temple Meads, Bristol, BS1 6QH

One sundial; in storage; catalogued with other artefacts. A shepherd's dial.

BRISTOL INDUSTRIAL MUSEUM

Princes Wharf, City Docks, Bristol, BS1 4RN

Some sundials in the collection; some on display and others in storage; catalogued with other artefacts. No details were given.

KINGSWOOD HERITAGE MUSEUM

Tower Lane, Warmley, Bristol, BS30 8XT

No sundials are in the collection. The survey reply form notes a sundial on Siston church and a possible dial at Siston Court, South Gloucestershire. Neither appears in the BSS 2005 Register.

BUCKINGHAMSHIRE

BUCKINGHAMSHIRE COUNTY MUSEUM

Church Street, Aylesbury, Bucks., HP20 2QP

(Correspondence address: Museum Resource Centre, Tring Road, Halton, Aylesbury, HP22 5PJ)

Three sundials; in storage; catalogued separately.

- i Pocket magnetic sundial; in turned, circular, lignum vitae box with screw-lid. Floating compass card. The printed label inside lid reads: "Porter's Magnetic Sundial. Patronised by the King. Floating on an Agate Cap". The dimensions (approx.) of the box: diameter 55 mm, height 30 mm. (AYBCM : 1976.31.1)
- ii Brass sundial, with four (nail or screw?) holes in corners. Dimensions: 75 mm square base and 38 mm high labelled: "SUN DIAL From Cuddington, Bucks". (AYBCM : 1981.40.1)
- iii No information was supplied about this sundial.

CLIVEDEN (NT)

Taplow, Maidenhead, Bucks., SL6 0JA

One sundial; currently in storage; catalogued with other artefacts. It is a horizontal sundial, normally set onto a baluster pier of steps to the south front of Cliveden House. The BSS Conference visit to Cliveden House in April 2008 established that this dial was made by the important eighteenth century dial-maker Benjamin Scott.

HUGHENDEN MANOR (NT)

High Wycombe, Bucks., HP14 4LA

One sundial; on display; catalogued with other artefacts. The brass dial is screwed onto a circular ebony base encircled by a silver band, inscribed in Latin. The dial plate is inscribed: "P.M. 1st August 1862" and "To the Rt. Hon. B. Disraeli M.P. from Philip Lybbe Powys M.P.".

The BSS Register also lists a vertical dial at Hughenden Manor: SRN 3373.

MILTON'S COTTAGE

Deanway, Chalfont St Giles, Bucks., HP8 4JH

One sundial; on display in the garden; not catalogued. It is a modern horizontal sundial on a pedestal.

This sundial is recorded in the BSS Register: SRN 5028.

WADDESDON MANOR (NT)

Waddesdon, Bucks., HP18 0JH

One sundial; on display; catalogued with other artefacts. No details given. (Acc. No. 5296)

CAMBRIDGESHIRE

PETERBOROUGH MUSEUM & ART GALLERY

Priestgate, Peterborough, Cambs., PE1 1LF

Two sundials; in storage; catalogued separately.

- i Portable wooden and brass sundial, with a sub-rectangular (sic) face showing the hours of the clock. It is waisted into an additional face stamped with the names of different countries. It is dated 1703 but believed to be a fake. The wooden base with naïve carving, with a square dial, waisted into an oval gnomon, has the hours marked in Roman numerals, and the second tear-drop shaped face is stamped with the names of some countries of the world. The two brass sundial faces, stamped, complete with a hinged pointer on the vertical axis; inscribed: "TEMPUS FUGIT" and stamped G1937 across the top of the main face of the dial. It was presented by Lord Bolton on 31st Dec. 1923. (PETMG : G1937)
- ii Sundial: rectangular, made from flat carved bone, decorated with Roman numerals and a carved Sun in one quadrant, with lettering: "Tempori Pare" underneath. It is believed to have been made by a French prisoner of war being held at Norman Cross, during the Napoleonic Wars, 1797-1814. (PETMG : 248/1987)

WHIPPLE MUSEUM OF THE HISTORY OF SCIENCE

University of Cambridge, Free School Lane, Cambridge, Cambs., CB2 3RH

MAJOR NATIONAL COLLECTION OF SUNDIALS AND OTHER SCIENTIFIC INSTRUMENTS.

See pages ix and 58. Total of 414 sundials in the collection, 187 on display and 227 in storage; catalogued separately. These include one Sunshine Recorder and one Sun Compass.

CHESHIRE

DUNHAM MASSEY HALL (NT)

Altrincham, Cheshire, WA14 4SJ

One sundial; on display. A horizontal dial supported by a Negroid statue, ('Young Blackamoor'). The dial plate is corroded, but in original location. The figure has been possibly attributed to Andries Carpentière / Andrew Carpenter. This sundial is recorded in the BSS Register: SRN 1720.

GROSVENOR MUSEUM

27 Grosvenor Street, Chester, Cheshire, CH1 2DD

One sundial; in storage; catalogued separately. It is a square brass sundial, with holes at each corner for mounting. It has Roman numerals and it is engraved: "Robt. Cawley, Chester, 1738".

NORTON PRIORY MUSEUM

Tudor Road, Manor Park, Runcorn, Cheshire, WA7 1SX

No sundials are in the museum collection. However, the survey reply form notes a sundial forming part of the museum Sculpture Trail. This may be one of the dials noted below. The BSS Register records three sundials here: SRN 2355, SRN 2356, SRN 2571.

PORT SUNLIGHT VILLAGE TRUST

Sunlight Vision, 23 King George's Drive, Port Sunlight, Wirral, Cheshire, CH62 5DX

No sundials are now in existence in the village, where once there were six. However, documentation and photographic records are held by the Village Trust.

WARRINGTON MUSEUM & ART GALLERY

Bold Street, Warrington, Cheshire, WA1 1JG

Eight sundials; some on display and some in storage; catalogued with other artefacts.

- i Brass horizontal sundial, with no inscription. (WAGMG : 1906.120)
- ii Lead sundial with copper gnomon. Inscribed: "A.V.C. 1765" in Roman capitals surrounded by interlaced pattern in relief. (WAGMG : 1906.691)
- iii Brass sundial, inscribed: "Arnold Royle / Thomas Weston / Church Wardens / 1731" in script. "John Sothern" and other names are scratched in the margin. (WAGMG: 1908.166)
- iv Brass ring-dial. The attached label states: "Belonged to one of the shepherds of Salisbury Plain.": (WAGMG : 1920.24)
- v Stained-glass sundial. (WAGMG : 1929.132)
- vi Sundial. Moved from the pavement on the south side of Stanley Street by permission of the Nunnery Trustees, August 1932. (WAGMG : 1932.125)
- vii Sundial type compass, with brass case. 18th century. (WAGMG : 1944.13)
- viii Sundial, inscribed: "The gift of Peter Winstanley To the Publick in Stanley Street, Warrington 1755." and "Virtue of precious time". Made by Jos. Finney. (WAGMG : TS.833)

CORNWALL

HELSTON FOLK MUSEUM

Church Street, Helston, Cornwall, TR13 8TH

Two sundials; on display.

- i Brass horizontal dial. From the photograph supplied, the label indicates that dial is inscribed "John Rowe Esq., Mayor 1792". It was formerly in the grounds of Helston Parish Church.
- ii Compass dial in a box. No other details were given.

PENLEE HOUSE GALLERY & MUSEUM

Morrab Road, Penzance, Cornwall, TR18 4HE

No sundials are in the museum collection. However, the survey reply form notes a recently made (2002) slate sundial in the park surrounding Penlee House. The dial was made by Jack Trowbridge in memory of Gladys Tranter. Sundial Register SRN 5721.

ST IVES MUSEUM

Wheal Dream, St. Ives, Cornwall, TR26 1PR

One sundial; on display. No details were given.

Two books are also held with sundial references.

- i *A Celebration of Cornish Sundials* by Carolyn Martin (1994).
- ii *History of St. Ives, Towednack, Lelant and Zennor* by J. H. Matthews, (1892). This history notes a James Wallis as a maker of sundials in St Ives in the 1750s.

CUMBRIA

HILL TOP (NT)

Near Sawrey, Hawkshead, Ambleside, Cumbria, LA22 0LF

The home of Beatrix Potter. One sundial, on display; an unusual adjustable dial mounted on a pedestal. This dial is

recorded in the BSS Register: SRN 3996.

DERBYSHIRE

BUXTON MUSEUM & ART GALLERY

Terrace Road, Buxton, Derbyshire, SK17 6DA

One sundial; on display, catalogued with other artefacts. No details were given. (At the time of the survey the sundial was on loan to Poole's Cavern, Buxton.)

CHESTERFIELD MUSEUM SERVICE

St Mary's Gate, Chesterfield, Derbyshire, S41 7TD

No sundials are in the museum collection. However, the survey reply form notes a horizontal dial (not registered) on a base in the grounds of their branch museum, 'The Revolution House', Old Whittington, Chesterfield. This sundial is inscribed: "Revolution House 2000".

DERBY MUSEUM & ART GALLERY

The Strand, Derby, Derbyshire, DE1 1BS

Five sundials; some being displayed, some are in storage; catalogued with other artefacts.

- i Bronze sundial by John Whitehurst and Son, Derby. (John Whitehurst 2nd) Dated 1812 and attached to Hop-tonwood stone plinth top. (Illus.) (1989-563/3)
- ii Bronze sundial by Whitehurst and Son, Derby. Dated 1834. (1955-280)
- iii Lead sundial with punched lines and numbers, dated 1644. The gnomon is missing. It was found whilst demolishing an old house at Breedon-on-the-Hill, near Derby. (1964-652)
- iv Sundial on a wooden base approximately 150 mm square, with a greenish bronze metal gnomon. (DL 154)
- v Octagonally shaped block of unpolished limestone (black marble), cut and marked as if for a sundial. (1972-699/60)



J Davis

EREWASH MUSEUM

High Street, Ilkeston, Derbyshire, DE7 5JA

One sundial; in storage, catalogued with other artefacts. The survey reply form notes that a modern sundial also exists in the gardens of the museum, in memory of an earlier occupier of the building which now houses the museum.

PICKFORD'S HOUSE MUSEUM

41 Friargate, Derby, Derbyshire, DE1 1DA

No sundials are in the museum collection. However, the survey reply form notes a modern dial in the grounds of the museum. Made by Brookbrae, it commemorates a visit by Prince Edward in 1991.

DEVON

ALLHALLOWS MUSEUM

High Street, Honiton, Devon, EX14 1PG

One sundial; on display; catalogued separately. The 18 cm square brass sundial is inscribed: "Jerom Murch 1772".

BICTON PARK BOTANICAL GARDENS

East Budleigh, Devon, EX9 7BJ

One sundial; on display; catalogued separately. The sundial by G. & C.W. Dixey is situated in the park gardens. This sundial is recorded in the BSS Register: SRN 2085.

COOKWORTHY MUSEUM

The Old Grammar School, 108 Fore Street, Kingsbridge, Devon, TQ7 1AW

No sundials are in the museum collection. The museum has in the collection a glass-plate photographic negative showing the Old Sundial in East Portlemouth churchyard.

(P1400.14.10)

DARTMOUTH MUSEUM

The Butterwalk, Duke Street, Dartmouth, Devon, TQ6 9PZ
One sundial; on display, catalogued with other artefacts. The slate dial, dated 1727, was removed from an old Manor House in South Town, Dartmouth.

ROYAL ALBERT MEMORIAL MUSEUM

Queen Street, Exeter, Devon, EX4 3RX

Two sundials; on display, catalogued separately, within the horology collection.

- i Pocket universal equinoctial sundial, by Dolland of London. The silvered brass compass dial is complete with a fish-skin covered wooden case. (82/193)
- ii Pocket azimuth sundial, by Charles (2nd) Bloud of Dieppe, France. Silver sundial with ivory case. (1963)

TOPSHAM MUSEUM

25 The Strand, Topsham, Exeter, Devon, EX3 0AX

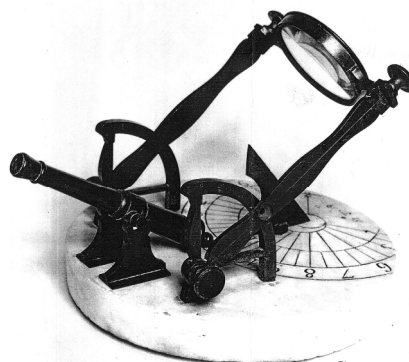
One sundial; on display in the museum gardens. The dial plate is mounted on a stone-work piece showing a cherub head. Details of the sundial from photographs supplied show Roman hour numerals, an eight-point compass rose around the toe of gnomon, and two Phoenix birds; perhaps suggesting a Pearson Page cast sundial.

TORQUAY MUSEUM

529 Babbacombe Road, Torquay, Devon, TQ1 1HG

Two sundials; neither is catalogued.

- i Universal ring-dial. No details were supplied.
- ii Noon cannon sundial (illustr). No details were supplied.



Courtesy Torquay Museum

TOTNES MUSEUM

70 Fore Street, Totnes, Devon, TQ9 5RU

One sundial; on display in the museum gardens (not registered). A modern sundial; in memory of Frances Mace, school teacher and former curator of the museum.

DORSET

DORSET COUNTY MUSEUM

High West Street, Dorchester, Dorset, DT1 1XA

No sundials are in the museum collection. However, the survey reply gave a list of articles with reference to sundials from the proceedings of *The Dorset Natural History and Archaeological Society*.

- i Vol 23, pp. 191-194. *A Short Account of The Cruciform Sun Dial at The Dorset County Hospital*, by John E. Acland, 1902. There is a drawing of the cross and a description of its operation. Similar devices in other counties are listed.
- ii Vol 29, p. 116. In an article *Hilton Church*, by the Rev. E.H.H. Lee, M.A., 1908 there is a drawing and description of a 17th century sundial, dated 1609 by the inscription.
- iii Vol 48, pp. 86-88. In an article *Dorset Clocks And Clock Makers*, by The Rev. R. Grosvenor Bartelot, M.A., F.S.A., 1927 there is a discussion of Dorset's sundials and scratch dials.
- iv Vol 61, pp. 79-85. An article with drawings, *Scratch Dials in Dorset*, by E. C. Chancellor, F.S.H., 1936. A list of churches is provided.
- v Vol 119, pp. 65-86. An article, *Medieval Sundials in Dorset*, by Gordon Le Pard, 1997 providing a catalogue of the results of a survey and including photographs, drawings and an informative bibliography.

POOLE MUSEUM SERVICE

Scaplen's Court Museum, 4 High Street, Poole, Dorset, BH15 1BW

One sundial; on display; catalogued with other artefacts. The bronze sundial is mounted on a stone plinth in the garden of Scaplen's Court Museum, Poole, having been there probably since the 1920s when the garden was first restored. The dial plate is engraved with signs of the zodiac, months and dates with Roman numerals around the outside, also the maker's name "Calcraft Liverpool". The date is unknown. The gnomon is thought to be a replacement. This sundial is recorded in the BSS Register: SRN 5720.

PRIEST'S HOUSE MUSEUM

23-27 High Street, Wimborne, Dorset, BH21 1HR

Two sundials; one in storage, one on display in museum garden.

- i Combined sundial and compass, in mahogany box. No details were given. (In storage.)
- ii A new sundial in the museum garden installed in 2002, to commemorate the founder of the museum. This sundial is recorded in the BSS Register: SRN 5335.

STAPEHILL ABBEY

276 Wimborne Road West, Stapehill, Ferndown, Dorset, BH21 2EB

Two sundials; in storage; catalogued with other artefacts.

- i Brass dial, 8 inches square. The dial plate has Roman numerals, a flaming sun-face at the centre and the motto: "I only count youre sunny houres".
- ii Brass dial, 12 inches in diameter (illustrated overpage). The gnomon is missing. The dial plate has Arabic numerals, a 16-point compass-rose at the centre and EoT

ENGLAND

tables for each month. The engraved motto reads “Let others tell of storms and showers I’ll only count your sunny hours”. Also engraved is “LAT. 54° 55’ N, LONG. 1° 22’ W, Height above sea level 132.25 Ft” and below is “19 A.E.P. 21” and “Sine Sole Sileo” (without the Sun I am silent). The latitude and longitude markings suggest that the sundial was perhaps originally from Sunderland.

Courtesy Staplehill Abbey Museum



DURHAM

BEAMISH, THE NORTH OF ENGLAND OPEN AIR MUSEUM

Beamish, County Durham, DH9 0RG

Two sundials; on display; catalogued separately. No details were given.

BOWES MUSEUM

Barnard Castle, County Durham, DL12 8NP

- i One sundial; in storage; catalogued separately. The French portable sundial in the form of a cross is signed Tassel. The sundial was examined by Mr. Maddison of the Museum of the History of Science, Oxford in 1986. A detailed description and explanation of the dial is held by the museum. (Founders’ bequest, CW. 91.)

- ii Flemish print with the image of a sundial. *Symmachus* print with two male figures sitting and talking on a bench, with vertical sundial seen mounted on wall above. (See *BSS Bull* 20(ii) p.63 for an image.)

(Founders’ bequest 2003.2333.134/P.A.)

LOCOMOTION, THE NATIONAL RAILWAY MUSEUM AT SHILDON

Shildon, County Durham, DM9 0RG

No sundials are in the museum collection but the survey form notes a modern sundial in the gardens of the museum.

ESSEX

COLCHESTER MUSEUMS

Museum Resource Centre, 14 Ryegate Road, Colchester, Essex, CO1 1YG

Four sundials; two are in storage and two are on display; catalogued separately.

- i Large wooden polar-cross type dial (illustr.); approximately 12 inches square and 15 inches high. The hour lines with sub-divisions are marked, along with various declination lines that include zodiac signs. Two analemmas are shown with the four seasons also indicated. Fourteen locations around the world are also shown with their local times corresponding to noon on this dial. Possibly an early 19th century dial. (The dial is in storage.)
- ii Boxwood cylindrical ‘Shepherd’s dial’; 3¾ inches high, with suspension cord. The brass gnomon can be stored within the body of the dial. The dial is marked with hour lines and the months of the year. (The dial is in storage.)
- iii Small octagonal brass horizontal dial; approximately 4 inches a/f. Hours from 4 am to 8 pm are shown in Roman numerals. The date suggested by the museum is

18th or early 19th century. (The dial is on display in Tymperleys Clock Museum, Trinity Street, Colchester.)

- iv Horizontal bronze dial on circular sectioned baluster pedestal. The main dial indicates hours in BST with a smaller dial centred around the gnomon showing GMT hours. Names of the seasons and floral decorations are engraved on the dial. (This dial is situated in the gardens of Tymperleys Clock Museum, Trinity Street, Colches-



I. Butson, courtesy Colchester & Ipswich Museum Service

GLOUCESTERSHIRE

BERKELEY CASTLE

Berkeley Castle, Gloucestershire, GL13 9BQ

One sundial; on display: a stained-glass window dial on display within the castle. This sundial is recorded in the BSS Register: SRN 2292.

CHELTENHAM ART GALLERY & MUSEUM

Clarence Street, Cheltenham, Gloucestershire, GL50 3JT

One sundial; in storage. A slate sundial by Melvin (London), probably the maker otherwise known as Richard Melville. The 14 inch square dial plate has a major central dial with a smaller dial at each of the four corners. The central dial is inscribed with Roman numerals, a 16-point compass rose, an EoT ring, various locations and two mottoes in Latin. It is also inscribed "Lat. 51 deg. 50 min. North".

GLOUCESTER CITY MUSEUM & ART GALLERY

Brunswick Road, Gloucester, GL1 1HP

Two sundials; on display.

- i Pocket sundial in its original fish-skin case, by John Rowley of London. The oval dial carries a folding gnomon located by a spring clip beneath. A compass is incorporated beneath a circular glass. The face of the dial is engraved with Roman hour numerals and a ducal crown over a monogram between scrolling designs. The back of the dial is engraved: "J Rowley LONDON" and "TURIN Lat 44° 35' ". (GLRCM : Art90)

- ii Portable ring sundial. A brass ring 4 inches in diameter and 1½ inches wide with a small iron suspension ring, graduated for use at approximately 52° N, with the Old Style calendar in use before 1752. It was found beneath the floorboards at 46 Westgate Street, Gloucester in 1951. (GLRCM : F450)

GLOUCESTER FOLK MUSEUM

99-103 Westgate Street, Gloucester, GL1 2PG

Three sundials and one catalogue; in storage.

- i Portable ring sundial. The brass instrument is suspended from a sliding shackle on an engraved latitude ring, within which pivots an hour ring. The axial bar, which carries a slider for setting the date (old style calendar, pre-1752) is mounted on the outer latitude ring. English. (GLRCM : F00568)
- ii Compass in case. The outer rim of the brass compass has Roman numerals, possibly for a sundial which is now missing. Directions are printed on paper inside. (GLRCM : F04649)
- iii Portable compass and sundial, inscribed with the maker's name: "Henricus Sutton Londini Fecit 1661". Diameter 4 inches. (GLRCM : F04650)
- iv Catalogue. *Brick Fireplaces and Sundials*. Catalogue of The Stonehouse Brick and Tile Co. Ltd. 1930. (GLRCM : F-1996.049.072)

HAMPSHIRE

HAVANT MUSEUM

Old Town Hall, 56 East Street, Havant, Hampshire, PO9 1BS

Two sundials; on display.

- i Pocket sundial with compass; the brass sundial with compass, has the inscription: "Stokes Fecit". It is 7.9 cm in diameter and was made by Gabriel Stokes in 1742.
- ii Multiple sundial in bronze incorporating a pedestal sundial, polar dial and vertical direct east and west dials, for 51° N. Made by Smith of Andover, Hampshire, in perhaps 1833, the dial gives the EoT, a table of days and months round the base plate with the number of minutes the clock is before or after the sun. Engraved: "LAT 51 (degree) (2) 1833" and "SMITH Andover". It is 19 cm in diameter.

MANOR FARM COUNTRY PARK

Pylands Lane, Bursledon, Southampton.

(Correspondence only - Brook Lane, Botley, Southampton, Hampshire, SO30 2ER)

One ornamental sundial; on display in the gardens, but no other details given. Not registered.

PORTSMOUTH MUSEUMS & RECORDS SERVICE

City Museum and Records Office, Museum Road, Portsmouth, Hants., PO1 2LJ

One sundial; in storage; catalogued with other artefacts. The brass sundial is inscribed on the top surface: "Dial for ye East and West India" and "17 Arthur Bainbridge 08". On the reverse is inscribed: "1708 Arthur Bainbridge maid it. Who liveeth on ye Comon near Mill gait Portsmouth". Noon at Port Royal is indicated on the dial. (127/1952)

WINCHESTER MUSEUMS SERVICE

Winchester City Council, 75 Hyde Street, Winchester, Hampshire, SO23 7DW

Six sundials; five in storage, one on display; catalogued separately.

- i Sundial with vertical and horizontal faces from Stares Farm in Upham. 16th - 17th century. (WINCM:LH 308)
- ii Bronze German miniature octagonal sundial with compass and hinged circle inscribed with hours and raised by a quadrant marked in degrees. The gnomon ring may be raised, with the latitude of various cities being given on the back for correction of time. Made by And. Vogl. 16th - 17th century. The dial is on a brass stand which

ENGLAND

- has an eagle at each corner and is described as Empire period. (WINCM:LH 850.2)
- iii Octagonal miniature sundial, set in an ivory case with a compass and with the hours engraved around it. The gnomon is in the form of a cord from the lid when raised, and a pendulum swinging in the lid to set it upright. Probably 1690-1720. (WINCM:LH 850.3)
 - iv Miniature metal sundial in a leather case, with handwritten instructions for adjustment to all the then principal continental towns. (WINCM:LH 850.4)
 - v Copper alloy shepherd's ring sundial. Annular ring with suspension loop and rotating inset collar. The rotating inset ring has time-holes for the sunlight to enter, with dates for its adjustment (engraved for the Old Style calendar) and inside the hours and fractions of time are engraved. (WIMCM:LH 850.5)
 - vi (Part of a sundial.) A seventeenth century ivory panel probably from a miniature sundial box as it was formerly hinged. Sun-face on one side with direction notations and a sun-face on the other with Roman numerals, zodiac signs and the inscription: "QUANTITAS DI EP". This item is on display in the Westgate Museum, Winchester. (WIMCM:LH 850.23)

HEREFORDSHIRE

BERRINGTON HALL (NT)

Nr. Leominster, Herefordshire, HR6 0DN

Some sundials in the collection; on display; catalogued separately. No details were given. The BSS Register also records a horizontal sundial in the gardens of the house, SRN 3445.

EASTNOR CASTLE

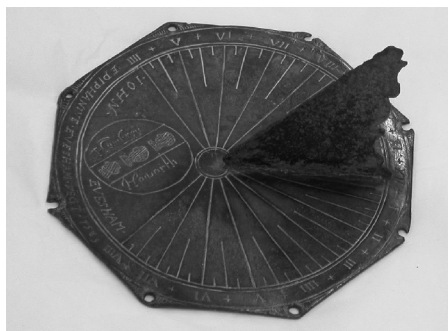
Ledbury, Herefordshire, HR8 1RN

One sundial; on display. A horizontal sundial mounted on a pedestal, on the upper South Terrace. This sundial is recorded in the BSS Register: SRN 5371.

HEREFORD MUSEUM & ART GALLERY

Broad Street, Hereford, HR4 9AU

One sundial; on display (illus.). A brass horizontal dial signed "Epiphanius Evesham fecit" and dated 1589. Also has the name John Evesham and a simple coat of arms with the name Humfrey Howarth. Original gnomon.



Hereford Mus. & Art Gall.

HERTFORDSHIRE

ASHWELL VILLAGE MUSEUM

Swan Street, Ashwell, Baldock, Hertfordshire, SG7 5NY

One sundial; on display; catalogued separately. A brass sundial, inscribed: "Elias Allen Fecit". A gift to the museum from Dr. A. R. Woodforde in 1934. (1992.81)

This sundial is recorded in the BSS Register: SRN 6048.



J. Davis

HITCHIN MUSEUM & ART GALLERY

Paynes Park, Hitchin, Hertfordshire, SG5 1EH

Two sundials; one is in storage, one on display; catalogued separately.

- i "Sundial scratched on Stone." No details given, but the item is held in the archaeology collection. (Ref. 3374)
- ii Horizontal sundial in the form of a Pestle and Mortar. This memorial dial is situated in the Physic Garden, adjacent to the museum. This sundial is recorded in the BSS Register: SRN 4002.

LETCHWORTH MUSEUM & ART GALLERY

Broadway, Letchworth, Hertfordshire, SG6 3PF

Two sundials and one sun compass; in storage; catalogued separately.

- i Two sundials recovered from a 14th century chapel in Minden. No details were given, but they are probably scratch dials.
- ii Sun compass. No details were given.

WELWYN HATFIELD MUSEUM SERVICE

Mill Green Museum and Mill, Mill Green, Hatfield, Hertfordshire, AL9 5PD

One sundial and one sun compass; in storage; catalogued separately.

- i Circular brass sundial with gnomon. It is marked with Roman numerals and the cardinal compass points. (WEWHM : 80/474)
- ii Brass, steel and mother of pearl sun compass. The painted face is inscribed with eight cardinal compass points and numerals 20-360. The face is also inscribed: "C. BARRETT 44 FLEET STREET LONDON". The interior of the oval lid has the printed inscription: "TO RENDER THIS COMPASS LUMINOUS AT NIGHT IT SHOULD BE EXPOSED AS MUCH AS POSSIBLE TO THE DAYLIGHT". (WEWHM : 2001/39)

KENT

CANTERBURY CITY MUSEUMS**Museum of Canterbury with Rupert Bear Museum,**

Stour Street, Canterbury, Kent.

(Correspondence only to Royal Museum and Art Gallery, 18 High Street, Canterbury, CT1 2RA).

Four sundials; on display; catalogued separately, but not all details given.

- i Horizontal slate dial by Melvin. The dial plate is 261 mm × 253 mm in size and has part of the bronze gnomon missing. It has a 32-point compass rose at the centre and an EoT for three months at each of the four corners. The dial plate is inscribed: "Richd MELVIN / Maker to the Crystal Palace Co / LONDON / Latitude 51° 16' North". This maker is otherwise known as Richard Melville. The dial is mounted on an early twelfth century Romanesque capital. This dial was formerly in the Dane John Gardens, where there is now a replacement dial; but no details given.

(Acc. No. CANCM: 1983.26)

The dial now in the Dane John Gardens is recorded in the BSS Register: SRN 4503.

- ii Pendant dial. Silver pendant with gold cap and chain, having approximate dimensions of 63 × 19 × 6 mm. The front and rear faces are each inscribed with six different months; with holes at Noon and the 3rd/9th hours to receive the gnomon. One edge is inscribed: "PAX POSSESSORI" and the other, "SALVS FACTORI". This dial has been fully described in 'The Canterbury Pendant: A Saxon Seasonal-Hour Altitude Dial', A. Mills, *BSS Bull* 95.2 p.39. (June 1995).
- iii Cylinder dial. Boxwood dial, 85 mm high with hours and months indicated. (Acc. No. CANCM: 4682)
- iv Diptych dial. Upper leaf only of ivory diptych dial, 67 mm × 91 mm in size. Inscribed: "HIERONYMUS RIEMAN / NORIMBERGAE FACIEBAT", it is dated 1559. The upper surface lists 36 towns, each with its latitude. Below this is the Summer side of an equatorial dial with a large sun-face at its centre. The lower surface has at the top a pin gnomon dial for Babylonian hours with declination lines (probably marked with Zodiac signs in the borders). In the central section is a fixed string-gnomon dial, and below this is the winter side of the equatorial dial.

DARTFORD BOROUGH MUSEUM

Market Street, Dartford, Kent, DA1 1EU

Two sundials in museum collection.

- i Shepherd's sundial.
- ii No details were given of this dial.

DOVER CASTLE MUSEUM (EH)

Dover, Kent, CT16 1HU

Two sundials in the museum collection.

- i Sundial. Roman, made of chalk with dimensions of 94 × 105 × 27 mm. (ID No. 78303734)

- ii Sundial. Ceramic.

(ID No. 801268)

DOWN HOUSE (EH)

Luxted Road, Downe, Orpington, Kent, BR6 7JT

The past home of Charles Darwin.

One sundial; on display in gardens; catalogued with other artefacts. A bronze horizontal sundial on a baluster pedestal. Believed to be Charles Darwin's own dial. An article by J. Davis in the *BSS Bull* 20(ii), p.64 (June 2008), gives much information about this dial. This sundial is recorded in the BSS Register: SRN 5143.

FINCHCOCKS LIVING MUSEUM OF MUSIC

Finchcocks, Goudhurst, Kent, TN17 1HH

One sundial; on display in gardens; not catalogued or registered. A modern sundial in the gardens to the south side of the house.

MAIDSTONE MUSEUM & BENTLIF ART GALLERY

St Faith's Street, Maidstone, Kent, ME14 1LH

Three sundials; in storage; catalogued with other artefacts (clocks).

- i Sundial. Ancient sundial made of slate, 5 inches square and enclosed in a wooden frame. (Acc. Reg. No. 1903-21)
- ii Sundial. Wooden sundial (cubical, 2¾ inch approx.), on stand which contains a compass. German (Nuremberg), 18th century. On the back: "D. BERINGER". (Acc. Reg. No. 1927-56)
- iii Sundial. Bronze double horizontal sundial made by John Allen, 1632, see illus. (Acc. Reg. No. 1927-56)



J. Foad

ENGLAND

MARITIME MUSEUM

Clock House, Pier Yard, Royal Harbour, Ramsgate, Kent, CT11 8LS

Meridian Line. The meridian line which was originally installed in 1819 by Lieutenant Matthew Curling Friend RN is located in the John Rennie Room of the Clock House. There are also a number of astronomical clocks in the museum.

MUSEUM OF KENT LIFE

Cobtree, Lock Lane, Sandling, Maidstone, Kent, ME14 3AU

One sundial; on display in museum gardens; not catalogued. It is a modern, square horizontal dial on a simple plinth, located in the gardens of the museum and is inscribed: "COBTREE". This sundial is recorded in the BSS Register: SRN 5331.

ROCHESTER GUILDHALL MUSEUM

High Street, Rochester, Kent, ME1 1PY

Two sundials; one on display, the other in storage; catalogued separately.

- i Pocket sundial. Silver Butterfield pocket sundial. (On display.)
- ii Sundial. Sundial plaque with markings, 18th or 19th century. (In storage.)

TIMEBALL TOWER MUSEUM

Prince of Wales Terrace, Victoria Parade, Deal, Kent, CT14 7BP

Time-ball. This is one of only four time-balls still in existence. The time-ball installed here in 1855 enabled masters of ships locally to set their chronometers accurately against Greenwich Time for navigation purposes.

The museum also has displays covering shutter telegraph, semaphore and electric telegraph signalling systems. There is also a display of navigational instruments, domestic clocks and watches. The upper floor of the tower houses the original time-ball mechanism, pendulum clocks and electric master clocks.

TUNBRIDGE WELLS MUSEUM & ART GALLERY

Civic Centre, Mount Pleasant, Tunbridge Wells, Kent, TN1 1JN

Four sundials; one on display, three in storage, (but not specified); catalogued with other artefacts.

- i Sundial. Full size bronze sundial with three mounting holes. Engraved: "1680" and "Docet Umbra".
- ii Sundial/Thermometer. Tunbridge ware (local wood mosaic) combined thermometer and sundial. 1830s.
- iii Sundial. Georgian bronze pocket sundial, in wooden case.
- iv Sundial. Victorian card and brass pocket sundial. A marketing novelty.

LANCASHIRE

LANCASTER CITY MUSEUM & LANCASTER MARITIME MUSEUM

Market Square, Lancaster, Lancashire, LA1 1HT

Three sundials; in storage; catalogued separately.

- i Pocket sundial, with position for compass in lid. Dated 1781. (LM.24.2/2)
- ii Sundial, "sub-rectangular"; having moulded rays, Arabic numerals and inscription. Dated 1730. (LM.83.59)
- iii Meteorological sunshine recorder with glass globe. Late 19th century. (LM.86.42/1)

PORTLAND BASIN MUSEUM

Portland Street South, Ashton under Lyne, Lancashire, OL7 0QA

No sundials are in the museum collection. However, a modern sundial is fitted to the outside of the museum, inscribed: "Ashton St Peters 1821 and Millennium 2000". This sundial is recorded in the BSS Register: SRN 6018.

SADDLEWORTH MUSEUM & ART GALLERY

High Street, Uppermill, Oldham, Lancashire, OL3 6HS

One sundial; in storage; catalogued with other artefacts. A modern brass ornamental sundial; with Roman numerals, eight point compass rose and the motto "Sunny Hours". (1985.25.1)

TOUCHSTONES ROCHDALE

The Esplanade, Rochdale, Lancashire, OL16 1AQ

Two sundials; in storage; catalogued separately.

- i Metal vertical sundial; with Roman numerals, offset gnomon and dated 1620.
- ii Octagonal brass sundial plate from Belfield Hall. It is engraved with Roman hour numerals around the dial and "A.B." with the date 1619 at the centre of the dial plate. Around the top edge is the inscription (in Latin) "As time passes, thus life flies" and under this is an engraving of an animal. The gnomon is missing. The information supplied also states that A.B. was Alexander Butterworth, owner of Belfield, who died in 1623.

TOWNELEY HALL ART GALLERY & MUSEUM

Burnley Borough Council, Towneley Holmes Road, Burnley, Lancashire, BB11 3RQ

One sundial; in storage; catalogued with other artefacts and held in the horology collection. A portable sundial for use between latitudes 51° and 57°, it is labelled: "The Sun Watch" and is dated 1922. There is also a modern sundial fitted to the outside of the museum. This latter sundial is recorded in the BSS Register: SRN 4775.

LEICESTERSHIRE

DONINGTON LE HEATH MANOR HOUSE MUSEUM

Manor Road, Donington le Heath, Coalville, Leicestershire, LE67 2FW

One sundial; on display in the museum gardens; designed and made by Brookbrae Ltd of Kingston upon Thames, Surrey. No other details were given, not in Register.

JEWRY WALL MUSEUM

St. Nicholas Circle, Leicester, Leicestershire, LE1 4LB

Two (replica) sundials; on display. Both sundials were constructed for the millennium celebrations of time-keeping at the museum.

- i Large Roman sundial. Inscribed: "RATAE". (Replica)
- ii Anglo Saxon handheld sundial. (Replica of the Canterbury Pendant dial.)

LEICESTERSHIRE COUNTY COUNCIL MUSEUMS

31-33, Hayhill, Barrow-upon-Soar, Leicestershire, LE12 8LD

Following the break-up of the old Leicestershire County Council and pending reorganisation of their museum collections, the sundials that are held were all in store at the time of the survey.

Five sundials; in storage; catalogued with other artefacts.

- i Portable sundial of wood, painted, made by Samuel Heyricke in 1687. (L.H1531.1885)
- ii Slate sundial, octagonal with brass gnomon. (L.H608.1952)
- iii Small portable sundial. (L.H338.1958)
- iv Brass sundial in carrying case. Donated by J. Stenson-Turner. (L.H347.1959)

- v Slate astronomical sundial. Installed at South Kilworth by the Rev. William Pearson in 1834. (L.H462.1960)

MUSEUM OF TECHNOLOGY

Abbey Pumping Station, Corporation Road, Leicester, LE4 5PX

One sundial; in storage. A brass sundial approximately 60 cm square. An accompanying plaque reads: "Presented by F. B. Lott M.A. Produced by W Durrad FRAS, 1928".

NATIONAL SPACE CENTRE

Exploration Drive, Leicester, LE4 5NS

No sundials are held in its own collection, but one is displayed which is on loan from the National Museum of Science and Industry, Manchester. No details were given of this dial.

NEWARKE HOUSES MUSEUM

The Newarke, Leicester, Leicestershire, LE2 7BY

Five sundials; some displayed and others in storage, but items not specified.

- i Octagonal slate sundial with bronze gnomon. Diameter 33.5 cm. (L.H608.1952.0.0)
- ii Small portable sundial in brass box with lid. The base is a compass which serves as a sundial with a folding gnomon. Diameter 5 cm. (L.H338.1958.0.0)
- iii Small brass sundial with brass gnomon, the gift of J. Stenson-Turner. Dimensions; 12.5 × 12.5 × 6.5 cm. (L.H347.1959.0.0)
- iv Slate sundial. Constructed in 1812 by Lt. Lachan of the 17th Foot Regiment. (L.H578.1995.235.0)
- v Rectangular Swithland slate sundial. Originally fixed to the observatory built by the Rev William Pearson at South Kilworth in 1834. The dial has Roman numerals and a bronze gnomon. (L.H462.1960.0.0)

LINCOLNSHIRE

BURGHLEY HOUSE

Stamford, Lincolnshire, PE9 3JY

One sundial; on display in gardens; not catalogued. Horizontal sundial on plinth. The circular dial has Roman numerals and appears to be inscribed: "I. Silson. Fecit.". The maker is most probably either Jonathan Sisson or his son Jeremiah, both makers of the eighteenth century. In the manner of their day the first 's' in the name was elongated in form, therefore being easily read after weathering as 'l'.

GAINSBOROUGH OLD HALL

Parnell Street, Gainsborough, Lincolnshire, DN21 2NB

One sundial; in storage; catalogued with other artefacts. It is a stone cube, with a pyramid shaped top. The north and south faces are inscribed with Roman hour numerals and the east and west faces with Arabic hour numerals. In-

scribed: "I. A. WELLBROOKE delineavit" and the date 1609. Latin inscriptions around the four faces of the supporting base. (Illustrated)



Lincolnshire Co. Council: Gainsborough Old Hall

ENGLAND

GRANTHAM MUSEUM

St. Peter's Hill, Grantham, Lincolnshire, NG31 6PY

Four sundials; one on display, two in storage and one on loan; catalogued separately.

- i One sundial. (On display.) Plaster-cast copy of the sundial carved into the stone wall at St. John the Baptist Church, Colsterworth by Isaac Newton. The original is still on the wall of Colsterworth Church. The latter sundial is recorded in the BSS Register: SRN 0620. (The museum also has displays in connection with Sir Isaac Newton.)
- ii Sundial. Large block of stone with a sundial carved into it. (In storage.)
- iii Sundial. A small 13 cm square brass sundial with gnomon; Roman numerals on a circular dial and a mounting hole at each corner. (In storage) (LCNGR : 1995.1579)
- iv Equinoctial sundial. English Equinoctial sundial made by Worthington and Allen in Piccadilly in about 1860. (Currently on loan to the Usher Gallery, Lindum Road, Lincoln.)

LOUTH MUSEUM

4 Broadbank, Louth, Lincolnshire, LN11 0EQ

No sundials are in the museum collection. However, the survey reply form notes that Louth is situated on the Greenwich Meridian Line which is marked at several points in the streets of the town. Details are available from the museum.

MUSEUM OF LINCOLNSHIRE LIFE

Burton Road, Lincoln, LN1 3LY

Five sundials; in storage; catalogued separately.

- i Sundial. Brass, 18th century. (72/2236)
- ii Sundial. Brass, inscribed: "NOTE CHANGE BUT CHANGE NOT". Date unknown. (72/2237)
- iii Sundial. Brass. Date unknown. (72/2238)
- iv Sundial. Brass, inscribed: "Tho. Wilks Fecit. 1737". (72/2240)

- v Sundial. Brass, inscribed: "John Davis in Blibor", dated 1738. (He worked in Blyborough, Lincs. known as Blibor at that date.) (72/2239)

NORTH LINCOLNSHIRE MUSEUMS SERVICE

Normanby Hall Country Park, Normanby, Scunthorpe, Lincolnshire, DN15 9HU

Three sundials; two sundials in storage; catalogued separately and the third, not part of the museum collection, is on display.

- i Sundial. Wrought iron sundial made from the outer shell of the first Frodingham Furnace. (1953.116)
- ii Slate sundial. Slate sundial removed from 1 Park Street, Winterton, during demolition. (1969.031.2)
- iii One sundial; (not part of the museum collection). A horizontal sundial on the south lawn at Normanby Hall that was presented to Sir Berkley and Lady Julia Sheffield on the occasion of their wedding in 1904 by the tenants of their Lincolnshire estates. The sundial is the property of the Normanby Estates Company. This sundial is recorded in the BSS Register: SRN 5917.

SPALDING GENTLEMEN'S SOCIETY

The Museum, Broad Street, Spalding, Lincolnshire, PE11 1TB

One sundial; on display. A vertical sundial mounted on the wall of the caretaker's residence. Dated 1702, it has Roman numerals and the Latin inscription: "MOX NOX". The letters R.S.P. on the dial are the initials of Richard and Peregrina Slater. Formerly on the street wall of the Crane Inn in Double Street, it was moved to the museum in 1913.

STAMFORD MUSEUM

Broad Street, Stamford, Lincolnshire, PE9 1PJ

One sundial; in storage; catalogued separately. A bronze sundial plate and gnomon. The circular dial has a diameter of 210 mm, Roman numerals and three mounting holes. Inscribed: "RAYMENT 1792 STAMFORD. LATT.53". (ACC. No. 2483)

LONDON (GREATER)

BRITISH MUSEUM

Great Russell Street, London, WC1B 3DG

MAJOR NATIONAL COLLECTION OF SUNDIALS, TIME-KEEPING AND OTHER SCIENTIFIC INSTRUMENTS.

See page xxx.

CHISWICK HOUSE

Burlington Lane, Chiswick, London, W4 2RP

One sundial; on display in gardens; not catalogued. The horizontal bronze sundial on a baluster style pedestal is a reinstatement, being a modern copy of an original first recorded in 1865. This sundial was installed in 2000 as a memorial donation. The dial plate has a memorial inscription and an EoT correction graph. This sundial is recorded in the BSS Register: SRN 5717.

CLOCKMAKERS' MUSEUM

Guildhall Library, Aldermanbury, London, EC2P 2EJ

Some sundials are held in the collection, but number and details not specified; some are on display; catalogued separately. The museum also holds a number of relevant books and a photograph of a 'salon dial' made by Wm. Bowyer. The dials on display at the time of sending the return included:

- i A large horizontal dial by Elias Allen, with reversed compass. The octagonal dial plate is approximately 18 inches a/f and the gnomon is set at an angle of 53°.
- ii A small, early, horizontal dial by Isaac Symmes.
- iii A universal equinoctial dial by Edward Nairne.

HORNIMAN MUSEUM AND GARDENS

100 London Road, Forest Hill, London, SE23 3PQ

Eight sundials; on display; catalogued separately. An educational 'Sundial Trail' exists, created by the Horniman garden staff and members of the British Sundial Society, which demonstrates the operation of a number of different types of sundial. Some are recorded in the BSS Register.

- i Direct west facing vertical sundial. BSS SRN 2484
- ii Scaphe or bowl sundial. BSS SRN 2485
- iii Stained-glass vertical dial. BSS SRN 2487
- iv Analemmatic sundial. BSS SRN 2486
- v Ceiling dial in CUE Building. BSS SRN 4406
- vi 'Butterfly' horizontal dial.
- vii Horniman horizontal dial.
- viii Horniman logo double polar dial. BSS SRN 3891

KENWOOD (EH)

Hampstead Lane, London, NW3 7JR

One sundial; on display in Kitchen Garden; not catalogued. An analemmatic (human-gnomon) sundial, with stones set into the lawn. Installed in 1980s. SRN 5722

LEIGHTON HOUSE MUSEUM

12 Holland Park Road, London, W14 8LZ

No sundials in the museum collection; however, the museum archive does have one drawing and some photographs which include sundials.

Pen and ink drawing by Edward Linley Sambourne (1844-1910), titled "Time Skipping Rope".

A male angel holds one end of a fruit vine, the other end is tied to a sundial; he is spinning the vine while a woman labelled "1904" jumps the vine.

Photograph of Maud Messel, née Sambourne, standing by a sundial in a garden. c. 1900?

Photograph of Anne Messel, standing by a sundial in a garden. c. 1908?

Photograph of Anne Messel, holding a doll and standing by a sundial in a garden. c. 1908?

Photograph of Anne Messel, holding flowers and standing by a sundial in a garden. c. 1908?

Photograph of Anne Messel, holding a doll and standing by a sundial in a garden. c. 1908?

Photograph of Anne and Oliver Messel, standing by a sundial in a garden. c. 1908?

MUSEUM IN DOCKLANDS

No.1 Warehouse, West India Quay, Hertsmere Road, London, E14 4AL

One sundial; on display. A universal equatorial ring dial by Joseph Long of Little Tower Street, London (1820-1840). The brass dial is approximately 9 inches in diameter.

MUSEUM OF GARDEN HISTORY

St. Mary-at-Lambeth, Next Lambeth Palace, Lambeth Palace Road, London, SE1 7JU

One sundial; on display in the garden; not catalogued. A vertical, south facing, wall-mounted stone dial with Arabic

numerals. This sundial is recorded in the BSS Register: SRN 4553.

MUSEUM OF LONDON

London Wall, London, EC2Y 5HN

Sixteen sundials; one on display, fifteen in storage; catalogued separately. Limited details only were supplied, but include a horizontal sundial by W. Watkins, St. James' Street, circa 1801-1830. Details were also given of some interesting early dials in the collection.

- i Wood compass dial with brass fittings. Horizontal dial for latitude of approximately 51°. Folding brass gnomon embossed with the letters IR. The compass well is empty, and the back has an incised acorn mark. 16th century. (Acc. No. A3891)
- ii Wood compass dial with red pigment, brass attachments and folding gnomon. 16th/17th century? (Acc. No. A5129)
- iii Octagonal universal equinoctial dial of brass and steel. The compass base is engraved with a flower head (Augsburg). 1700-1725. (Acc. No. A21322)
- iv Elephant ivory compass dial with red pigment and brass attachments. Horizontal dial for the approximate latitude of 51°. The gnomon is missing and the compass well is empty. The back is decorated with scrimshaw engraving of a tree with lopped branches. Perhaps 16th/17th century? (Acc. No. A22451)
- v Silver portable dial, dated 1655. Horizontal dial for the latitudes 35° and 55° with folding rod and spring loaded gnomon engraved with a graduated scale. Below the compass well is a lunar volvelle with a lunar phase aperture revealing crescent, full moon faces and eclipse with associated calibrated scales. There is a table of epacts beneath. (Acc. No. 46.78/707a)
- vi Wood compass dial with brass fittings. Half only, split along the north/south axis. Horizontal dial for latitude of approximately 51°. Centre of leaf engraved with a bird. The folding brass gnomon is engraved with the letters IR. The compass well is empty. 16th century. (Acc. No. 78.283)
- vii Elephant ivory dial with brass attachments. The gnomon is missing although the brass attachments remain. The compass well is empty. 17th century? (Acc. No. 10058)

NATIONAL MARITIME MUSEUM (NMM)

Romney Road, Greenwich, London, SE10 9NF

MAJOR NATIONAL COLLECTION OF SUNDIALS, ASTRONOMICAL, TIME-KEEPING AND OTHER SCIENTIFIC INSTRUMENTS.

See pages ix and 58.

Sundials in the collection; some being on display and others in storage; are catalogued separately.

Also reported as in the collection are Sunshine Recorders (4), and Sun Compasses (21). Details were also supplied of the Prime Meridian and earlier meridians used at the Royal Observatory Greenwich. The museum also holds an extensive collection of relevant books, photographs and documents. Sundials and associated items in the Greenwich collection are also catalogued in H. Highton: *Sundials at*

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Greenwich: A Catalogue, Greenwich. OUP, Oxford, (2002).

Sundials may be viewed online at: The NMM Collections Online www.nmm.ac.uk/collections

The famous ‘Dolphin Sundial’ may be seen in the gardens of the NMM. This sundial is recorded in the BSS Register: SRN 2157.

Another sundial and two noon marks may be seen on display nearby at the Old Royal Observatory. They too are recorded in the BSS Register: SRNs 1289, 3446, 4629.

RANGER’S HOUSE (EH)

Chesterfield Walk, Blackheath, London, SE10 8QX

One sundial and compass; on display; catalogued separately. The sundial and compass is part of a silver-gilt verge watch, the back cover of which opens to reveal the sundial and compass. French, signed: “Gribelin à Blois”, circa 1630.

ROYAL AIR FORCE MUSEUM

Grahame Park Way, London, NW9 5LL

One sun watch with compass and one sun compass; in storage; catalogued separately. Both items are held in museum storage at RAF Stafford.

- i Sun watch with compass. (Acc. No. 1988/1278/5)
- ii “Chichester Sun Compass”. (Acc. No. PS X002-9247)

SIR JOHN SOANE’S MUSEUM

13 Lincoln’s Inn Fields, London, WC2A 3BP

One sundial; on display; catalogued separately. A Roman marble sundial; a kneeling figure of Atlas supporting a concave quarter-circle on which the solar division lines are inscribed. (Museum No. M1254)

VESTRY HOUSE MUSEUM

Vestry Road, Walthamstow, London, E17 9NH

One sundial; on display in the museum garden; catalogued with other artefacts; a stone ball on a pedestal. Originally from Woodford Hall, it was placed in these gardens when they still formed part of a private residence at the beginning

of the 20th century. Engraved: “Woodford Hall”. This sundial is recorded in the BSS Register: SRN 5723.

VICTORIA AND ALBERT MUSEUM

Cromwell Road, London, SW7 2RL

MAJOR NATIONAL COLLECTION OF SUNDIALS AND OTHER SCIENTIFIC INSTRUMENTS.

See page xxx.

WALLACE COLLECTION

Hertford House, Manchester Square, London, W1M 3BN

Three sundials; on display; catalogued separately.

- i Sundial-compass. Silver, engraved octagonal Butterfield sundial-compass. Inscribed: “Butterfield à Paris”. Early 18th century. (Museum No. III J 512)
- ii Sundial-compass. Gilt metal, square sundial-compass by Christoph Schissler, Augsburg. Chased and engraved with arabesque decoration, it is inscribed: “Christophorus Schissler Faciebat, Augusta Vindelicorum, Anno Domini 1575”. (Museum No. III J 531)
- iii Sundial-compass. Brass, engraved octagonal Butterfield sundial-compass. Inscribed: “Butterfield à Paris”. Early 18th century. (Museum No. III J 533)

WHITEHALL CHEAM

1 Malden Road, Cheam, Sutton, London, SM3 8QD

A small local museum, social events centre and tea-rooms.

There are no sundials in the museum collection, but one modern sundial is fitted to the rear of the building. A circular painted sundial is on the rear face of the 16th century staircase tower of the building. Made by Brookbrae Ltd., the sundial was installed by the Friends of Whitehall on the 18th June 1985, being the seventh anniversary of the opening of the centre.

WIMBLEDON MUSEUM OF LOCAL HISTORY

22 Ridgeway, Wimbledon, London, SW19 4QN

No sundials are held in the museum collection; however, the museum has one watercolour painting of a house, now demolished, showing a sundial in the garden. The watercolour is dated 1827.

MANCHESTER (GREATER)

MANCHESTER CITY ART GALLERY

Mosley Street, Manchester, M2 3JL

Six sundials; some displayed and some stored, but no details provided; catalogued separately.

- i French sundial, by Charles Bloud; circa 1670. (Acc. No. 1922.1224)
- ii German sundial. (Acc. No. 1922.1225)
- iii French sundial, by Macquar (Acc. No. 1922.1201)
- iv French sundial, by Lambert le Père; circa 1720. (Acc. No. 1922.1202)
- v German sundial, by Lorenz Grassl; circa 1700. (Acc. No. 1922.1204)
- vi French sundial; circa 1700. (Acc. No. 1922.1205)

MUSEUM OF SCIENCE AND INDUSTRY

Liverpool Road, Castlefield, Manchester, M3 4JP

One sundial; on display; catalogued separately. A circular, brass horizontal sundial from Liverpool Road Railway Station, Manchester. The dial has Roman hour numerals and is inscribed: “RAILWAY STATION. MANCHESTER. 1833”. Latitude 53° 22' North, Longitude 2° 12' West is also indicated. The dial has been the subject of two articles in BSS Bulletins: ‘Liverpool Road Railway Station, Manchester’, by R Bowling, 20(iii), p.121 (Sept 2008), and ‘Liverpool Road Railway Station, Manchester – a second view’, by J. Wall; 20(iv), p.176 (Dec. 2008). See illustration p. vi.

MERSEYSIDE

CROXTETH HALL AND COUNTRY PARK

Croxteth Hall Lane, Liverpool, L12 0HB

Two sundials; in storage; catalogued with other artefacts. Both sundials were recently removed from the grounds and placed in storage following vandalism. Only one is intact.



Irene Brightmer

- i Double Horizontal dial. The brass dial-plate is 455 mm in diameter and has a bevelled edge. The dial has an EoT correction scale in the form of “Watch Faster/ Watch Slower” and is inscribed with the Coat of Arms and motto for the Molyneux family and: “HENRY SEPH-TON FECIT 1722”, with the underside of the dial-plate also being signed: “H Sephton West Derby” in free hand. The gnomon is engraved on the west face: “Richard Lord Molyneux” and a coronet, with the east face engraved with foliate pattern and a coronet. This dial was originally at another family home near Liverpool and came to Croxteth in 1903, when it underwent some restoration. (See Brightmer: ‘Henry Sephton; Architect, Mason & Diallist’, *BSS Bull*, 22(iii), pp. 46-52, 2010.)
- ii No details of this dial were given.

MERSEYSIDE MARITIME MUSEUM

Albert Dock, Liverpool, L3 4AQ

Three sundials; one on display and two in storage; catalogued separately.

- i Helio-chronometer. Patent helio-chronometer by Pilkington & Gibbs Ltd. On display. (Acc. No. 1967.276)
- ii Sundial and compass. Chinese sundial and compass. (In storage.) (Acc. No. 1966.301.1)
- iii Pocket sundial and compass. Pocket compass and sundial with the latitude of various cities on the bottom, in a box. Made by Cuthbert E. Woods, it is inscribed: “Non Nisi Celesi Radio”. (In storage.) (Acc. No. 1966.301.2)

WORLD MUSEUM LIVERPOOL

William Brown Street, Liverpool, L3 8EN

Large and significant collection of sundials. Forty two sundials; some on display, others in storage, but items not specified. Catalogued separately.

- i Universal pocket sundial in case; by Lefebure, Paris; circa 1700. (LIVCM 10.4.34.47)
- ii Horizontal portable brass sundial, with level screws; by Kock, Vienna. 18th century? (LIVCM 10.4.84.36L)
- iii Horizontal ivory diptych sundial; by Leonhart Miller. Dated 1652. (LIVCM 10.4.84.40)
- iv Cased, universal silver-brass pocket sundial; by Butterfield, Paris; circa 1690. (LIVCM 10.4.84.41)
- v Horizontal pocket sundial plate inscribed: “Gio, Savoi F Firenze 1765”. Incomplete. (LIVCM 10.4.84.42)
- vi Horizontal wooden diptych sundial. German. Late 18th century. (LIVCM 10.4.84.46)
- vii Wooden diptych sundial, signed: “Stockert A Bavaria”; circa 1800? (LIVCM 10.4.84.46L)
- viii Horizontal wooden pocket diptych sundial. German. Late 18th century. (LIVCM 10.4.84.47L)
- ix Universal altitude ring sundial; by Cadot, Paris; circa 1740. (LIVCM 12.4.54.44)
- x Roman scaphe sundial Stone from Palestrina, Rome. 2nd century A.D. (LIVCM1959.148.128)
- xi Small horizontal garden sundial dated: “1666”. Pearson, Page, probably made in 1930s. (LIVCM 1959.345.1)
- xii Dent patent helio-chronometer; by Pilkington and Gibbs Ltd., Preston, Merseyside. (LIVCM 1967.276)
- xiii Horizontal demonstration sundial. (LIVCM 1978.175)
- xiv Brass garden sundial, marked: “1670 misspend no time”. Pearson, Page? Early 20th century. (LIVCM 1979.637.1)
- xv Dipleidoscope; by Dent, London. Mid 19th century. (LIVCM 1982.545.1)
- xvi Wooden pillar altitude sundial. (LIVCM 1982.545.13)
- xvii Double horizontal sundial plate signed: “Jacobus Clark”, Dundee; circa 1700. See BSS Monograph No. 5, DH-14 (LIVCM 1988.379)
- xviii Slate Sun and Moon equinoctial sundial; by Labiche. 1670. (LIVCM 1993.98)
- xix Small portable English horizontal sundial. circa 1800. (LIVCM 23.11.82.1)
- xx Pocket horizontal sundial with string gnomon; by Erasmus Habermel, Prague; circa 1600. (LIVCM 23.11.82.2)
- xxi Pocket horizontal English sundial with magnifier. Unsigned; circa 1800. (LIVCM 25.1.63.4)
- xxii Horizontal wooden diptych sundial. Chinese. 19th century. (LIVCM 33.28)
- xxiii Universal cubic sundial, paper on wood, on stand; by David Beringer; circa 1800. (LIVCM 4.1.83.1)

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- xxiv Sun and Moon sundial and nocturnal compendium, in gilt brass. 17th century? (LIVCM 7.169.40)
- xxv Globe sundial, marked 1564, on bronze statue of Atlas. 16th century. (LIVCM LL405)
- xxvi Equinoctial planispheric sundial, brass on stand. Early 18th century? (LIVCM LL409)
- xxvii Stone horizontal sundial with fixed gnomon. German. 1711. (LIVCM LL413)
- xxviii Horizontal universal sundial, portable, stone. German. 18th century? (LIVCM LL414)
- xxix Pocket altitude sundial, circular, gilt brass. 17th century? (LIVCM LL417)
- xxx Pocket inclining sundial, in fish-skin case; by Benjamin Cole, London; circa 1800. (LIVCM LL419)
- xxxi Horizontal bronze sundial, possibly French, for latitude 49°. 18th century? (LIVCM LL421)
- xxxii Simple English altitude ring sundial, marked: "Proctor". 18th century? (LIVCM LL424)
- xxxiii Equinoctial pocket sundial; by Willebrand, Augsburg; circa 1700. (LIVCM M401)
- xxxiv Pocket universal sundial; by Rugendas, Augsburg; circa 1650. (LIVCM LL402)
- xxxv Cruciform equinoctial universal sundial. Probably 19th century. (LIVCM LL403)
- xxxvi Horizontal ivory diptych sundial; by Leonhart Miller. 1635. (LIVCM M404)
- xxxvii Portable altitude ring sundial; by Renard; circa 1680. (LIVCM M406)
- xxxviii Altitude ring sundial, engraved: "Tho Mann Fecit 1673". (LIVCM M407)
- xxxix Brass sundial plate. (LIVCM M414)
- xl Small folding sundial/nocturnal with compass. (LIVCM Temp 35)
- xli Nocturnal, brass, Italian, unsigned, made for 43.5° latitude. Possibly a reproduction item. (LIVCM Temp 37)
- xlvi Small brass collapsible sundial/nocturnal. (LIVCM Temp 70)

NORFOLK

BLICKLING HALL (NT)

Blickling, Norwich, Norfolk, NR11 6NF

Three sundials; on display; catalogued with other artefacts. All are recorded in the BSS Register

- i Modern horizontal sundial, in the Secret Garden. (BSS SRN 3479)
- ii Analemmatic human gnomon type sundial, in the West Garden. Made by Ben Jones, the dial is of York stones set in gravel. (BSS SRN 5839)
- iii Vertical sundial, on the Dutch Gable of the Hall (BSS SRN 3696)

BRIDEWELL MUSEUM

Bridewell Alley, Norwich, Norfolk, NR2 1AQ

Six sundials; some on display, others in storage, but not specified; catalogued separately.

- i Ivory diptych sundial and compass. Signed: "Conrad Karner" of Nuremberg. (NWHCM : 1956b : B)
- ii Chinese pocket compass and sundial in wood. With a list in Chinese characters on one lid and a dial with movable points on the other outer lid. (NWCHM : 1928.33 : B)
- iii Silver octagonal pocket sundial with compass inset. The dial has a silver and gilded gnomon and is inscribed: "Salamon Chesner, Bla?". (NWHCM : 1962.164 : B)
- iv Bronze horizontal sundial plate. The octagonal plate with a circular dial is inscribed: "B. Martin, London" for Benjamin Martin 1704/5 to 1782 near Crane's Court, Fleet Street. (NWHCM : 1965.37 : B)
- v Bronze sundial with the arms of Windham, probably from Earsham Hall. 18th century. (NWHCM : 1970.168 : B)

vi Pocket ring-dial with astronomical letters: circa 1750.

(NWHCM : tno 62 : B)

LYNN MUSEUM

Old Market Street, King's Lynn, Norfolk, PE30 1NL

One sundial; in storage; catalogued separately. Brass compass and sundial within a circular container having a screw-off lid. The hinged brass sundial is surrounded by engraved Roman numerals for the hours of the day.

(KILLM : 2000.303)

NORWICH CASTLE MUSEUM

Castle Meadow, Norwich, Norfolk, NR1 3JU

Five sundials; some on display, others in storage, but not specified; catalogued separately.

- i Brass pocket sundial. (NWHCM : 1894.76.419 : A)
- ii Small gilt sundial with hand attached. (NWHCM : 1894.76.420 : A)
- iii Bronze sundial used to make a pocket set. (NWHCM : 1973.596.531 : A)
- iv Copper alloy portable sundial. The sundial ring is marked externally with five grooves, the centre one developing into a slot, either side of which initials of the month and a graduated scale representing hours of the day are inscribed. (NWHCM : 1986.233.37 : A)
- v Copper alloy sundial compass. Cylindrical body with shallow domed cover and five paper dials in varying condition. (NWHCM : L2001.1.6729 : A)

SHELL MUSEUM

Glandford, Holt, Norfolk, NR25 7JR

One sundial; on display in gardens; not catalogued. No details were given. Not registered.

NORTHAMPTONSHIRE

ALTHORP

Northampton, Northamptonshire, NN7 4HQ

Three sundials; on display in the gardens; catalogued with other artefacts. All are recorded in the BSS Register.

- i Bronze horizontal sundial by Walton, Charing Cross, London. (BSS SRN 2760)
- ii Bronze horizontal sundial by G & C Dixey, London. (BSS SRN 2792)
- iii Stone horizontal sundial by Robert Washington. (BSS SRN 4883)

NORTHAMPTON MUSEUM & ART GALLERY

Guildhall Road, Northampton, Northamptonshire, NN1 1DP

Four sundials; in storage; catalogued with other artefacts.

- i Cast brass horizontal sundial with sun rays in the centre forming compass points. Inscribed: "I only count oute sunny hours" and "1661". (Acc. No. D.88.1975)
- ii Square slate horizontal sundial engraved with compass rose at the centre. With hour, half and quarter hour divisions and Roman numerals it is also lightly engraved: "? Whiting Northampton". (Acc. No. X.4218)

- iii Square brass horizontal sundial with sun-face centred on base of gnomon. Engraved with hour, half and quarter hour divisions and Roman numerals. (Acc. No. X.4219)
- iv Octagonal slate sundial engraved with the points of the compass, a band of trailing leaf design and Roman numerals. Shallowly engraved across the lower edge: "Cosby Wappenham". The slate gnomon is bolted through. (Acc. No. X.4220)

SULGRAVE MANOR

Sulgrave, Northamptonshire, OX17 2SD

Three sundials; on display. Two are recorded in the BSS Register.

- i Bronze horizontal sundial, in the gardens. (BSS SRN 2783)
- ii Stone vertical sundial, on quoin above porch. (BSS SRN 2782)
- iii Small bronze square sundial, with Roman hour numerals. Circa 1700. Displayed in "George Washington Museum" within Sulgrave Manor.

NORTHUMBERLAND

CHESTERS ROMAN FORT & MUSEUM (EH)

Humshaugh, Chollerford, Hexham, Northumberland, NE46 4EU

One sundial; on display; catalogued with other artefacts. Roman sundial (portion). Quadrant shaped portion of a semi-circular stone vertical sundial, from the Roman Camp at Housesteads (Borcovicus). (CH 248)

This dial is also noted in the following publications:

Gatty: *The Book of Sun-dials*, London, p. 43, (1900).

A. R. Green: 'Anglo-Saxon Sundials', *The Antiquaries Journal* 8, pp. 489-516 (1928).

J. Wall: 'The Search for Pre-Saxon Sundials', *Bull BSS* 12 (ii), pp. 91-95 (2000).

NOTTINGHAMSHIRE

BREWHOUSE YARD MUSEUM

Castle Boulevard, Nottingham, Nottinghamshire, NG7 1FB

Two sundials; in storage; catalogued separately.

- i Square copper sundial. Engraved with Roman numerals and the inscriptions: "Fugit Hora" and "Alexr Westland 1720". At the centre, the letters "I H" and "F I I T". (NCM 1910-27)
- ii Copper sundial. The vertical sundial has the two uppermost corners removed and is engraved with Arabic figures and date 1663. Inscribed: "Vivat Carolus Secundus", two dolphins and a ribbon bearing "Mors Venit". The gnomon is pierced with a trefoil shape. This sundial was probably made by the Pearson, Page & Co. (NCM 1928-282)

CASTLE MUSEUM

The Castle, Nottingham, Nottinghamshire, NG1 6EL

Two sundials; in storage; catalogued separately.

- i Ring-dial. (NCM 1980-526)

- ii Ring-dial. (NCM 1986-1233/35)

MILLGATE MUSEUM

48 Millgate, Newark, Nottinghamshire, NG24 4TS

One sundial; in storage; catalogued separately. A brass sundial, engraved: "T. Blades Nov 1st, 1797" and with the motto "Tempus Edax Rerum"; it also has points of the compass, months of the year, Father Time and Newark Castle shown. The dial was taken from the home of William Dickenson who wrote the "History of Newark" in 1816.

(No. 999.1)

NEWSTEAD ABBEY

Linby, Nottinghamshire, NG15 8GE

One sundial; on display; catalogued separately. A sundial mounted on a marble capital from the Temple of Venus at Piraeus, Athens. Presented to Mrs F. Webb (mother of William Frederick Webb of Newstead Abbey) by Captain F. W. Gore 3rd Regt., (East Kent Regt., 'The Buffs'), October 1856. (NA-X 143)

OXFORDSHIRE

ASHMOLEAN MUSEUM

University of Oxford, Beaumont Street, Oxford, Oxfordshire, OX1 2PH

Ten sundials; some on display, others in storage, but items not specified; catalogued with other artefacts.

- i Brass universal equinoctial dial, signed: "Johan Schretteger in Augsburg". (1913.916)
- ii Ivory diptych dial, incorporating a wind vane. Signed: "Lienhart Miller 1614". (1836 Cat. P5 no. 68)
- iii Bronze horizontal dial, signed: "H. Sutton fecit 1657". (1888.488)
- iv Brass Gunter's quadrant; constructed for 51° 40' and incorporating an almanac for 1660-84. On the back of the quadrant is a planispheric nocturnal. Inscribed: "I.W. 1665". (1892.45A)
- v Bronze ring-dial circa 1700. (1886.5828)
- vi Bronze ring-dial circa 1700. (1886.5829)
- vii Ivory diptych dial, with red and black inlay. German, Nuremberg, second half 17th century. Probably by Melcher Karner. (1889.80)
- viii Bottom leaf of bone diptych dial. Probably South German, 17th century. (1937.252)
- ix Octagonal, brass horizontal dial plate. ?18th century. (1931.554)
- x Brass equinoctial ring-dial, circa 1730. (1894.19)

BLenheim PALACE

Woodstock, Oxfordshire, OX20 1PX

Four sundial pedestals; three being fitted with sundials. Some are displayed and the others stored, but details not given; catalogued with other artefacts. All four sundials are recorded in the BSS Register.

- i Horizontal bronze sundial by John Rowley, located in the Italian Garden. (BSS SRN 2183)
- ii Horizontal bronze sundial by John Rowley, located in private garden. (BSS SRN 5298)
- iii Horizontal bronze sundial by John Rowley, in storage. (BSS SRN 5352)
- iv Analemmatic/human gnomon type sundial, in the maze at the Pleasure Gardens. (BSS SRN 2260)

BROUGHTON CASTLE

Banbury, Oxfordshire, OX15 5EB

This is not a museum, but a private residence which is regularly opened to the public.

One sundial; on display; not catalogued. Vertical sundial on the south wall, made by Mr Hanbury-Tenison of Pontypool, Wales in 2006.

BUSCOT HOUSE (NT)

The Estate Office, Buscot Park, Faringdon, Oxfordshire, SN7 8BU

One sundial; on display; catalogued with other artefacts. Brass horizontal sundial, by John Hawting of Oxford; second half of the 18th century. Situated in the Rose Garden, the sundial is mounted on a shaped pedestal with scrolling acanthus leaves on a spreading column gadrooned at the base. This sundial is recorded in the BSS Register: SRN 0673.

CHAMPS CHAPEL MUSEUM

Chapel Square, East Hendred, Oxfordshire, OX12 8JT

No sundials are held in the collection, but the museum has photographs of sundials in the village, including that at St Augustine of Canterbury's Church. (BSS SRN 5613)

CHASTLETON HOUSE (NT)

Chastleton, Moreton-in-Marsh, Oxfordshire, GL56 0SU

Five sundials; on display; catalogued with other artefacts. The four outdoor dials are recorded in the BSS Register.

- i Octagonal bronze sundial plate with Roman hour numerals. 17th century? On display in the Museum Room.
- ii Bronze horizontal sundial, in topiary garden. (BSS SRN 4116)
- iii Vertical declining sundial, on West quoin of South wall. (BSS SRN 5800)
- iv Vertical declining sundial, on West quoin of West tower. (BSS SRN 5801)
- v Vertical declining sundial, on South quoin of West tower. (BSS SRN 5802)

MUSEUM OF THE HISTORY OF SCIENCE

Old Ashmolean Building, Broad Street, Oxford, Oxfordshire, OX1 3AZ

MAJOR NATIONAL COLLECTION OF SUNDIALS, TIME-KEEPING AND OTHER SCIENTIFIC INSTRUMENTS.

See pages ix and 58.

NUFFIELD PLACE

Huntercombe, near Nettlebed, Henley-on-Thames, Oxfordshire, RG9 5RY

One sundial; on display; catalogued with other artefacts. Vertical sundial mounted on south elevation of house. Designed with the house by Oswald Partridge Milne (pupil of Edwin Lutyens) in 1914. This sundial is recorded in the BSS Register: SRN 5367.

OXFORDSHIRE MUSEUMS STORE

Cotswold Dene, Witney Road, Standlake, Oxfordshire, OX29 7QG

Ten sundials; in storage; catalogued separately, but details of only six were supplied.

ENGLAND

- i Square brass sundial, with four corner holes for fixing. The gnomon is in two parts, one upright and the other longer, at a 45° angle. The numbering is Roman. (OXCMS : 1974.28.936)
- ii Square brass sundial with black finish, with four corner holes for fixing. The gnomon has a scalloped front edge and the numbering is Roman. Mid- to late-19th century. (OXCMS : 1974.28.937)
- iii Brass pocket sundial and compass. Circular, with a fob loop and an ivory plate for notes. The sundial plate is of paper with the words: "Tempus Fugit" around the compass. The simple pin gnomon folds flat when not in use. (OXCMS : 1974.28.948)
- iv Lead and paint toy sundial. Cream square tiered base and fluted column, supporting the square tiered top with circular dial in gold. (OXCMS : 1978.227.94)
- v Octagonal bronze sundial, with four fixing holes and triangular gnomon. Inscribed with hours, a compass and: "TAKE DIRECTION/OF THE SUN/TO DO THOSE THINGS/WHICH SHOULD/BE DONE 1638". (OXCMS : 1980.96.1293)
- vi Round wooden pocket sundial. (OXCMS : 1986.165.sf7)
- i Chinese wooden sundial and compass. (1886.1.77.1)
- ii Indian sundial. (1892.41.56)
- iii Swedish wooden sun clock, dated 1625. Used by peasants in Mora, Dalecarlia, Sweden, 1906. (1916.19.20)
- iv Spanish wooden sundial. Pillar shaped sundial used by Basque shepherds in Pyrenees. (1917.31.29)
- v Wooden sundial. Columnar form sundial from Basque area of Pyrenees. (1918.25.84)
- vi Wooden sundial. Columnar form sundial from Basque area of Pyrenees. (1918.25.85)
- vii Indian sundial staff. (1925.49.1)
- viii English brass-mounted compass with sundial, in pocket case. (1927.46.14.1)
- ix Scottish sundial, gnomon missing. From the Orkney Isles. (1940.5.68)

TOLSEY MUSEUM

126 High Street, Burford, Oxfordshire, OX18 4HJ

No sundials in collection. However, one book is held in the collection.

Peter Innocentius Drinkwater: *The Art of Sundial Construction*, ISBN 0 946643 09 1, (1985).

PITT RIVERS MUSEUM

University of Oxford, Parks Road, Oxford, Oxfordshire, OX1 3PP

Nine sundials; some on display, others in storage, but items not specified; catalogued separately.

RUTLAND

RUTLAND COUNTY MUSEUM

Catmos Street, Oakham, Rutland, LE15 6HW

One sundial; in storage; catalogued with other artefacts; a bronze ring sundial, found at Market Overton. Late 18th century?

Also in the collection are:

- i A photograph of a sundial on a house in Ketton, Rutland.
- ii A Huntley and Palmer biscuit tin carrying a picture of a sundial, circa 1914.

SHROPSHIRE

IRONBRIDGE GORGE MUSEUM TRUST

Ironbridge, Telford, Shropshire, TF8 7DQ

No sundials in the collection but the museum holds some associated items.

- i Photographs of sundial at Madeley Court, Shropshire.
- ii Engraving of Coalbrookdale Company cast iron sundial.

SHROPSHIRE COUNTY COUNCIL

County Museum Service, Wenlock Lodge, Acton Scott, Church Stretton, Shropshire, SY6 6QN

One sundial; in storage; catalogued with other artefacts. No details were given.

LUDLOW MUSEUM RESOURCE CENTRE

7-9 Parkway, Ludlow, Shropshire, SY8 2PG

Two sundials; in storage; not yet catalogued.

- i Bronze sundial.
- ii Stone sundial.

SOMERSET

AMERICAN MUSEUM

Claverton Manor, Bath, Somerset, BA2 7BD

One sundial; on display; a miniature pewter sundial in the form of an armillary sphere. There is also an armillary dial in the garden. This latter dial is listed in the BSS Register: SRN 3052

NORTH SOMERSET MUSEUM

Burlington Street, Weston-super-Mare, Somerset, BS23 1PR

One sundial; in storage; catalogued with other artefacts. Horizontal brass sundial, with Roman numerals and sun-face engraved around toe of gnomon. 18th century. The 5 inch square dial plate has a fixing hole at each corner.

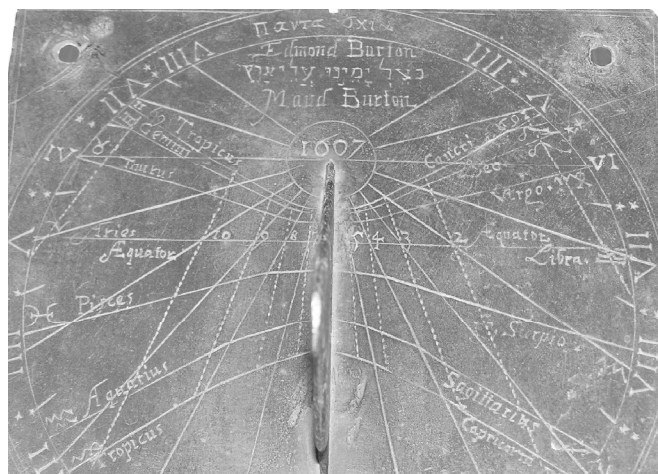
(WESTM : 1961.178)

SOMERSET COUNTY MUSEUMS SERVICE

Taunton Castle, Taunton, Somerset, TA1 4AA

Seven sundials; in storage; catalogued separately.

- i Stone sundial, 17th century. (Illus. in Gatty: *The Book of Sun-dials*, London (1900)). (Acc. No. 33/1999)
- ii Bronze sundial, (illus.) inscribed: "Edmund Burton, Maud Burton 1607". The dial has Greek and Hebrew inscriptions and also Zodiac lines, names and symbols. At the foot of the gnomon it is inscribed: "HORA FUGIT SIC TU" and on the back "GWIL BURTON ME FECIT". The dial is mounted in a wooden frame. (Acc. No. 46.B.20)



David Brown

- iii Bronze pocket sundial, with folding gnomon. (Acc. No. 5/1989/473)
- iv Slate sundial, inscribed: "JOSEPH THRISTLE, JUNE 24 1840, STOWEY". (Acc. No. 81.Asc.4)
- v Medieval boxwood pocket sundial. Inscribed: "A SOLIS ORTU USQUE AD OCCASUM / ERUNT SIGNIA IN SOLE ET LUNA". (Acc. No. OS.Asc.44)
- vi Brass sundial, inscribed: "WEE SHALL DIAL (DIE ALL) MS 1668". (Acc. No. OS.Asc.46)
- vii Ivory cased French pocket sundial, 18th century. Made by Jacques Senecal, Dieppe. (Acc. No. OS.Asc.48)

STAFFORDSHIRE

POTTERIES MUSEUM & ART GALLERY

Bethesda Street, Hanley, Staffordshire, ST1 3DW

Two sundials; in storage; catalogued separately.

- i Metal, pocket horizontal sundial, dated 1707 (illus.)
- ii Metal horizontal sundial. The plate is signed: "J. Bennett London" and is engraved with Roman numerals and a 16-point compass rose at the centre. The gnomon is missing. This sundial was recovered from Longton Hall, Staffs., when it was demolished in 1939.



The Potteries Museum & Art Gallery

TAMWORTH CASTLE MUSEUM

Tamworth Castle, Tamworth, Staffordshire, B79 7NA

One sundial; on display. A modern brass octagonal sundial, mounted on an information panel in the museum's courtyard. Not registered.

WESTON PARK

Weston-under-Lizard, Staffordshire, TF11 8LE

One sundial; on display in the garden; catalogued separately. Circular bronze sundial, indistinctly inscribed with maker's name. The very badly weathered dial is set upon a Coade stone pedestal of triform triangular section with three caryatid supporting figures.

A vertical dial above the Old Stables at Weston Park is recorded in the BSS Register: SRN 4102.

SUFFOLK

ALDEBURGH MUSEUM

The Moot Hall, Aldeburgh, Suffolk, IP15 5DS

One sundial on display. A vertical sundial mounted on the south wall of the Moot Hall, dated 1650. This sundial is recorded in the BSS Register: SRN 0665.

IPSWICH BOROUGH COUNCIL MUSEUMS & GALLERIES

High Street, Ipswich, Suffolk, IP1 3QH

Three sundials; two in storage, one on display at Christchurch Mansion, Soane Street, Ipswich.

The first two are associated as follows:- the Museum acquired a very large double sundial that was mounted over the entrance of Smart's Warehouse on the Docks at Key Street, Ipswich when that Tudor building was demolished in the 1920s. When this sundial was conserved it was found to be fixed over the top of an earlier pair of sundials possibly dating from the late-16th century. (Smart from whom the building was named, died in the 1580s.) Both sundials are recorded in the BSS Register. They are also the subject of a past article in the BSS Bulletin.; John Davis: 'Tudor Dials in Ipswich', *Bull BSS*, 13(iii), pp.117-122 (2001)

- i Diptych sundial, possibly 16th century. The inscription reads: "Why stand you here idle, while you look time passes". (BSS SRN 4584/4585)
- ii Diptych sundial, probably 18th century. (BSS SRN 4586/4587).

- iii Armillary sphere sundial, in the gardens to the rear of Christchurch Mansion, Ipswich. It originated from a collection of Italian garden stonework in Corfe Castle, Dorset. This sundial is recorded in the BSS Register: SRN 2535.

MANOR HOUSE MUSEUM

Honey Hill, Bury St Edmunds, Suffolk, IP33 1HF

Following the closure of this building in 2006, the major national collection of sundials and time-keeping instruments in the Gershom Partington Collection which was previously held at this museum has now been transferred to the town centre museum at Moyses's Hall, Bury St Edmunds. See below.

MECHANICAL MUSIC MUSEUM & BYGONES

Cotton, Near Stowmarket, Suffolk, IP14 4QN

One sundial; on display in the grounds of the museum. A modern brass sundial, fitted to a tree stump.

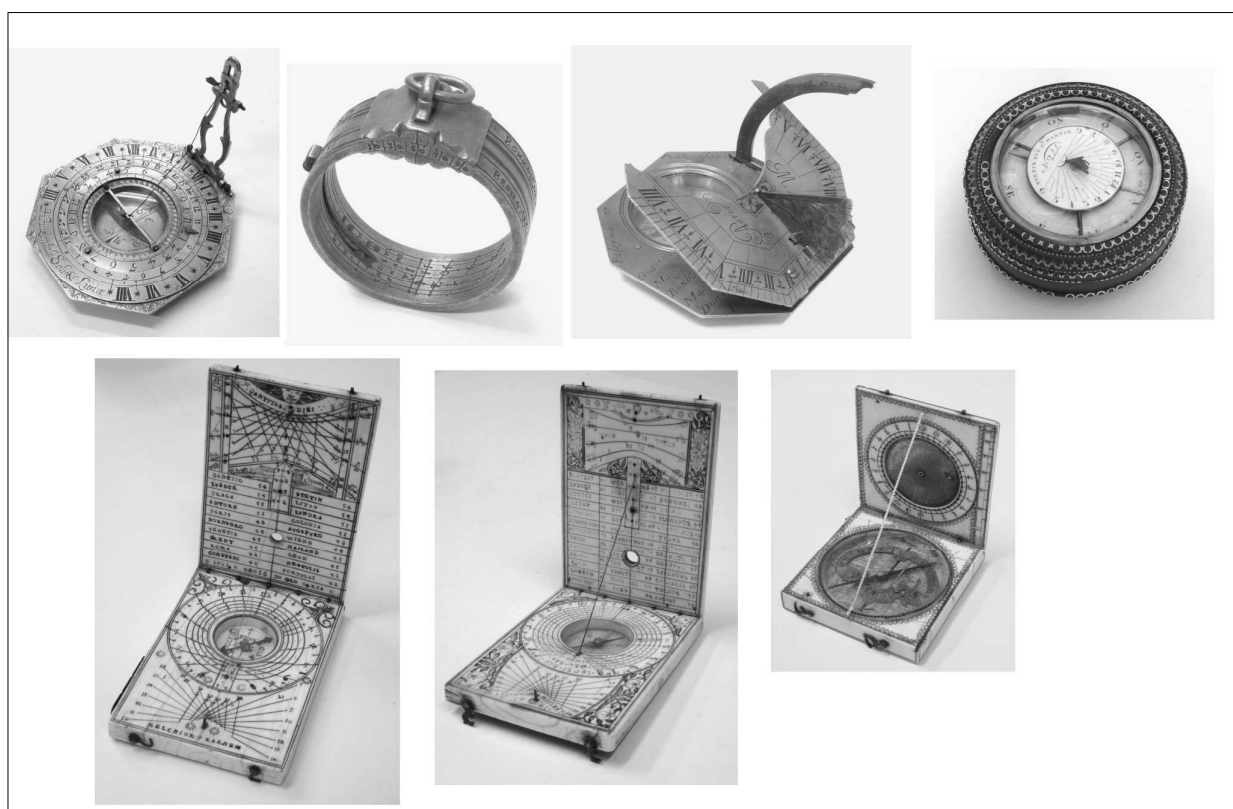
MOYSE'S HALL

Cornhill, Bury St Edmunds, Suffolk, IP33 1DX

Following the closure in 2006 of the Manor House Museum, Bury St Edmunds, the Gershom Partington Memorial Collection of Time Measurement Instruments is now held at this museum.

MAJOR NATIONAL COLLECTION OF SUNDIALS AND TIME-KEEPING INSTRUMENTS.

See pages ix & 58. Illustrated below.



SURREY

CHERTSEY MUSEUM

The Cedars, 36 Windsor Street, Chertsey, Surrey, KT16 8AT
One sundial dated 1784; on display; catalogued separately, but no other details given.

HAM HOUSE (NT)

Ham House, Ham, Richmond-upon-Thames, Surrey, TW10 7RS

Two sundials; on display; catalogued separately.

- i Vertical dial of brick and plaster, behind panelling in upstairs of the house. The dial was previously on an outside wall of the house but was obscured by an extension built in the 1670s. This sundial is recorded in the BSS Register: SRN 6053.
- ii Horizontal bronze sundial on pedestal. The dial by Benjamin Scott of London is located in gardens to the rear of the house. This sundial is recorded in the BSS Register: SRN 6054.

HASLEMERE EDUCATIONAL MUSEUM

78 High Street, Haslemere, Surrey, GU27 2LA

No sundials are in the museum collection. However, the survey reply form notes two sundials in the grounds of the museum.

- i Horizontal sundial, on pedestal. Dated 1909, but the maker is not known. BSS SRN 5855.
- ii Equatorial sundial, by Joanna Migdal. Commissioned by the Royal School in 2002 to commemorate the Golden Jubilee. BSS SRN 5856.

RURAL LIFE CENTRE

Reeds Road, Tilford, Farnham, Surrey, GU10 2DL

No sundials are in the museum collection. However, the survey reply form notes a sundial in the grounds of the Centre; an analemmatic (human-gnomon) type sundial, for visitors to use. This sundial is recorded in the BSS Register: SRN 5719.

SUSSEX (E)
HERSTMONCEUX CASTLE

Herstmonceux, Hailsham, East Sussex, BN27 1RP

Seven sundials; on display in the castle gardens. These sundials are all recorded in the BSS Register.

- i Equiangular sundial. BSS SRN 1773.
- ii Analemmatic sundial. BSS SRN 4313.
- iii Horizontal sundial. BSS SRN 5767.
- iv Half-circle equatorial sundial. BSS SRN 5768.
- v Armillary sphere equatorial sundial. BSS SRN 5769.
- vi Multiple Cube Market Cross sundial. BSS SRN 5770.
- vii Combined analemmatic and horizontal sundial. BSS SRN 5771.

PRESTON MANOR

Preston Park, Brighton, East Sussex, BN1 6SD

Two sundials; one in storage, one on display.

- i Equatorial Sol Horometer, by Pilkington and Gibbs. (In storage.) This sundial is recorded in the BSS Register: SRN 3558.
- ii Horizontal sundial on pedestal, on display in the Walled Garden of Preston Manor. The square dial plate by J. Holmes has Roman hour numerals, an eight point compass rose and is dated 1768. The motto on the dial is: "The glorious lamp of Heaven, the Sun the higher he's agetteing the sooner will his pace be run and the nearer he's to setting". The gnomon is missing. This sundial is recorded in the BSS Register: SRN 5714.

SUSSEX (W)

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

TYNE AND WEAR

ARBEIA ROMAN FORT AND MUSEUM

Baring Street, South Shields, Tyne and Wear, NE33 2BB

One sundial; on display in the grounds of the Roman fort. A modern, Roman quadrant scaphe stone sundial. The quadrant is divided into 12 hours in Roman style and stands on a stone pedestal with Roman lettering. Designed by Alex Chrome of Tyne and Wear Museums and made by John Jackson of South Shields.

DISCOVERY MUSEUM

Blandford Square, Newcastle upon Tyne, Tyne and Wear, NE1 4JA

Seven sundials and one book; in storage; catalogued separately.

- i Hexagonal sundial. Inscribed with Roman numerals I - XII, "John (illegible), 1753 WG ESW".
(TWCMS : C5502)
- ii Replica of the sundial from Neptune Shipyard, Newcastle upon Tyne, with engraved inscriptions in Latin and English: "Watching these fleeting hours soon past, remember that which comes at last", and "Lat(itude) 54 (degrees) 58.5 (minutes)"; made possibly around 1978/80, for Mr Don Isbistor, a respected Manager at the shipyard.
(TWCMS : 2005.590)
- iii Sundial from Neptune Shipyard, Newcastle upon Tyne, made by John Wigham Richardson in 1881 and hung on the wall of a storehouse at his Neptune Shipyard. Purchased and restored by the Friends of Trinity Maritime Centre in 1975.
(TWCMS : 2001.3753)
- iv Pocket sundial.
(TWCMS : J7090)

- v Sun compass. Compass in which the direction of the sun is utilised instead of the direction of the magnetic north or south pole.
(TWCMS : J10491)
- vi Floating sundial. Made by Frederick Robson and Co., Newcastle upon Tyne. With Roman numerals indicating GMT hours, a second ring displays Summer Time in Arabic numerals. Inscribed: "New Roses Come / New Roses Go / But I Go On Forever". (TWCMS : C10530)
- vii Pocket sundial. Made by Andreas Vogler, Augsburg, circa 1750. The sundial of copper alloy and brass incorporates a compass and is inscribed: "SE OR ME OC". (Note. Comparison with other dials by Vogler suggests this may possibly be a copy, probably mid 19th century.)
(TWCMS : B2923)
- viii Book. *Sundials on Walls*, Christopher St. J. H. Daniel, National Maritime Museum, (1978). (TWCMS : F721)

SOCIETY OF ANTIQUARIES OF NEWCASTLE UPON TYNE

The Black Gate, Castle Garth, Newcastle upon Tyne, Tyne and Wear, NE1 1RQ

No sundials held in collection, however, two books on sundials are listed.

- i *The Book of Sundials*, Mrs Alfred Gatty, London, (1889).
- ii *Sundials: incised dials or mass-clocks*, Arthur Robert Green, Society for Promoting Christian Knowledge, (1926).

WARWICKSHIRE

WARWICKSHIRE MUSEUM

The Market Hall, Market Place, Warwick, Warwickshire, CV34 4SA

No sundials are held in the museum collection, however a vertical sundial is fitted to the outside of the Market Hall. This sundial is recorded in the BSS Register: SRN 2200.

WEST MIDLANDS

BLACK COUNTRY LIVING MUSEUM

Tipton Road, Dudley, West Midlands, DY1 4SQ

No sundials are in the museum collection, however the survey reply form notes that a photograph and several photographic slides showing local sundials are held in the collection.

WEDNESBURY MUSEUM & ART GALLERY

Holyhead Road, Wednesbury, West Midlands, WS10 7DF

One sundial; in storage; catalogued separately. A bronze, circular sundial, made by D Wright and dated 1817, the dial plate notes hours, months, Zodiac signs and has a fast/slow correction scale.

ENGLAND

WIGHTWICH MANOR (NT)

Wightwich Bank, Wolverhampton, West Midlands, WV6 8EE

Two sundials; on display.

- i Vertical sundial, mounted on shop. This sundial is recorded in the BSS Register: SRN 3431.

- ii Bronze, horizontal sundial on stone column, on the south lawn. This sundial is recorded in the BSS Register: SRN 3432.

The survey reply form also notes a “Sunshine Recorder” and a “Sun Compass” in the collection, but no details are given.

WILTSHIRE

LACKHAM MUSEUM OF AGRICULTURE AND RURAL LIFE

Lackham College, Lacock, Chippenham, Wiltshire, SN15 2NY

No sundials are in the museum collection, however the survey reply form notes a horizontal sundial in the grounds of Lackham College. This sundial is recorded in the BSS Register: SRN 1120.

LACOCK ABBEY (NT)

High Street, Lacock, Chippenham, Wiltshire, SN15 2LG

Two sundials; on display.

- i Stained-glass sundial, set into window on the east side of the Abbey. This sundial is recorded in the BSS Register: SRN 0395.
- ii Brass, horizontal sundial, located in the garden to the south east corner of the Abbey. It is marked: “Made by Tho Wright Instrument Maker to his Royal Highness Prince of Wales” and also has the Talbot Coat of Arms and “Lat D51 M24” inscribed. This sundial is recorded in the BSS Register: SRN 0140.

LYDIARD HOUSE

Lydiard Park, Lydiard Tregoze, Swindon, Wiltshire, SN5 3PA

One sundial; in storage, (and one replica in the walled garden); catalogued separately. A leaflet, “The Lydiard Time Trail”, gives a description of sundials and clocks at Lydiard Park, and describes a sundial standing near the south corner of Lydiard House, as follows:

“The base of the St John sundial is built in carved Bath stone ashlar and the fine bronze plaque is inscribed with the makers name, J Sisson of London, a well known designer of mathematical instruments. The plaque is engraved with the arms of Henry 1st Viscount St John (died 1742) impaling those of Pelissary, beneath a Viscount’s coronet. The arms of Pelissary represent the family of the Viscount’s second wife, Angelica Magdalena. Portraits of the couple can be seen in the State Rooms within the house.

A plan of the park produced by Francis Howard Wiltington in 1766 marks a sundial in the large walled garden. This was almost certainly the Sisson dial which was relocated, probably from the walled garden, to its present position during the course of this century prior to 1948.”

The leaflet also notes the sundial above the entrance to the south porch of St Mary’s Church, Lydiard Tregoze. This latter sundial is recorded in the BSS Register: SRN 4227.

MARKET LAVINGTON VILLAGE MUSEUM

The Old Schoolmaster’s House, Church Street, Market Lavington, Wiltshire, SM10 4AB

One sundial and one meridian line (remnant) are on display.

- i Bronze, octagonal horizontal sundial, 89 mm across flats. The gnomon is missing. The dial plate which has some damage to the edges is inscribed with Roman hour numerals. Found during excavations at Grove Farm, Market Lavington, 1989/90. This sundial is recorded in the BSS Register: SRN 5346.
- ii Meridian line explanation. Explanation and instructions are painted onto the surface of an old wooden door for a “Spotlight Sundial”. Previously at the Mental Asylum in the town, the door was given to the curator of the museum when the asylum was demolished in the 1950s. This item is recorded in the BSS Register: SRN 5347 and is also considered in an article published by the BSS: A. O. Wood: ‘From the Mental Home and Workhouse’, *BSS Bull*, 16(i), pp. 33-36, (2004).

SALISBURY AND SOUTH WILTSHIRE MUSEUM

The King’s House, 65 The Close, Salisbury, Wiltshire, SP1 2EN

Eight sundials; one on display, seven in storage; catalogued separately.

- i Stone block, multiple sundial. Height 165 mm, width 145 mm, depth 145 mm. Perhaps post-medieval. Possibly a cut-down capital, so it would have been for a column about 140 mm in diameter. All faces are different, there is a recessed crescent on one with a heart on the opposite face. Devices on the other faces clear but not identified. Traces of several iron pins survive. From Ivychurch Priory, Alderbury. (On display)
(Acc. No. 13/1924)
- ii Sundial. Brass, 103 mm square sundial; mounted on wood. Maker possibly R H. (In storage) (Ref: MiiiA31)
- iii Pocket sundial. Brass, 42 mm diameter, with folding gnomon. Maker possibly SB or SR. (In storage)
(Ref: MiiiA34)
- iv Pocket sundial. Brass or bronze, 35 mm diameter, with folding gnomon. Maker possibly X. (In storage)
(Acc. No. 80/1953)
- v Pocket sundial with compass. Wood, folding box. Dial 85 × 53 mm, with compass and thread gnomon. Hours engraved in red and black. (In storage) (Ref: MiiiA33)
- vi Pocket sundial with compass. Brass, 66 mm diameter, with quadrant and folding gnomon. (In storage)
(Ref: MiiiA35)

- vii Ring-dial. Brass, 53 mm diameter × 10 mm width, with moveable central ring. (In storage) (Ref: MiiiA32)
- viii Universal astronomical ring dial. Steel, 77 mm diameter, fitted with ring ‘vernier scale’ and bar adjustable for the months. Engraved: “Culpeper fecit”. It is said to have belonged to Sir Isaac Newton. (In storage) (Ref: MiiiA36)

WILTSHIRE HERITAGE MUSEUM

41 Long Street, Devizes, Wiltshire, SN10 1NS

Six sundials; in storage.

- i Ring-dial. Copper alloy and brass, 41 mm diameter, with letters and numbers relating to months and hours. Date: 1701-1850?

- ii Ring-dial. Copper alloy and brass, 40 mm diameter. Date: 1701-1900?
- iii Ring-dial. Copper alloy and brass, 33 mm diameter. Date: 1801-1900?
- iv Ring-dial. Copper alloy and brass, 33 mm diameter. Date: 1801-1900?
- v Ring-dial. Incomplete, and in poor condition.
- vi Ring-dial. Incomplete, and in poor condition.

WORCESTERSHIRE

COMMANDERY

Sidbury, Worcester, Worcestershire, WR1 2HU

No sundials are in the museum collection, however, the survey reply form notes a stainless steel armillary sundial in the grounds of the museum; it was designed and made by David Harber in 2007.

WORCESTERSHIRE COUNTY MUSEUM

Hartlebury Castle, Hartlebury, Kidderminster, Worcestershire, DY11 7XZ

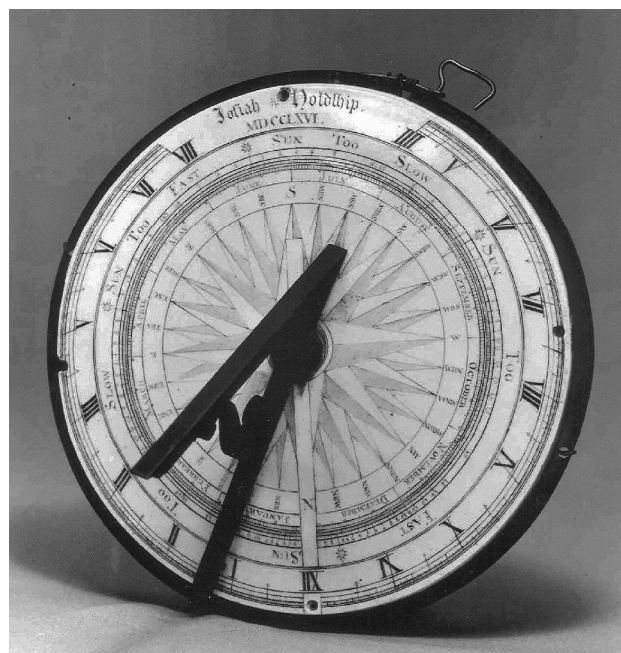
Some sundials are in the collection; in storage; catalogued separately. No details given. The survey reply form notes a restored 18th century sundial located on the roof of the Museum Administration Building. This sundial is recorded in the BSS Register: SRN 5378.

WORCESTER PORCELAIN MUSEUM

Severn Street, Worcester, Worcestershire, WR1 2NE

One sundial; on display (illus.). A ceramic, circular horizontal sundial. The sundial is inscribed with Roman hour numerals, a 32-point compass rose at the centre and a “Sun Too Fast / Sun Too Slow” EoT correction scale. It is also inscribed with the name Josiah Holdship and the date 1766. The dial, which was made at Dr. John Wall’s Worcester porcelain factory, is hand painted, inscribed in black and fixed to a metal base.

Josiah Holdship and his brother Richard were both partners of John Wall when the porcelain company was founded in 1751. Josiah is said to have been involved in the invention of printing on porcelain. It is not known if the sundial was made for a specific location. It has been in the museum collection since at least the 1870s.



Worcester Porcelain Museum

YORKSHIRE (ER)

BURTON AGNES HALL

Burton Agnes, Driffield, East Yorkshire, YO25 4NB

Some sundials; on display. No details were given on the survey reply form.

YORKSHIRE (N)

BENINGBROUGH HALL (NT)

Beningbrough, North Yorkshire, YO30 1DD

No sundials are in the museum collection, however a vertical sundial is fitted on the stable-block building at the hall. This sundial is recorded in the BSS Register: SRN 2867.

CASTLE HOWARD

York, North Yorkshire, YO60 7DA

Two sundials; on display.

- i Bronze, horizontal sundial on balustrade of steps at south side of house. This sundial is recorded in the BSS Register: SRN 2429.
- ii Bronze, horizontal sundial in Rose Garden. This sundial is recorded in the BSS Register: SRN 2430.

KIRKLEATHAM MUSEUM

Kirkleatham, Redcar, North Yorkshire, TS10 5NW

One sundial; in storage; catalogued separately. Brass, 10 cm square sundial with Roman hour numerals. It is engraved: "Thos Mann fecit" and dated 1671.

MUSEUM OF VICTORIAN SCIENCE

Woodberry, Glaisdale, Whitby, North Yorkshire, YO21 2QL

Three sundials; in storage; all were made by the owner of this museum, Mr Tony Swift, for demonstration purposes.

- i (Replica of) Thomas Heath oval Butterfield type portable sundial, in a folding protective travelling case.
- ii (Replica of) Johannes Koch rectangular Butterfield type portable sundial, in a folding protective travelling case.
- iii (Copy of) a small, general armillary sphere, on a square sectioned plinth.

ROTUNDA MUSEUM

Vernon Road, Scarborough, North Yorkshire, YO11 2NH

One sundial; on display; not catalogued. A vertical sundial on south wall of the building. Not in Register.

RYEDALE FOLK MUSEUM

Hutton le Hole, North Yorkshire, YO62 6UA

One sundial; on display in the gardens. Analemmatic (human gnomon) type sundial.

WHITBY MUSEUM

Pannett Park, Whitby, North Yorkshire, YO21 1RE

Two sundials; on display.

- i Portable "compass-card" sundial.
- ii Horizontal sundial, mounted on an hexagonal column of iron, approximately one foot high. Described as the "Bar Shot dial". The column is the piece of bar shot which was fired at HMS Revenge during the Battle of Trafalgar, and which killed a midshipman before embedding itself in the timber of the ship.

YORK CASTLE MUSEUM

The Eye of York, York, North Yorkshire, YO1 9RY

One sundial; on display; catalogued separately. Brass, 7 in. diameter circular horizontal sundial; engraved: "Hindley/York/Lat 54:40", with Roman numerals round the edge.

Henry Hindley; inventor, clock and instrument maker, was active in York from 1730 to 1770. (YORCM : 1976.13)

YORKSHIRE (S)

CANNON HALL MUSEUM

Bark House Lane, Cawthorne, Barnsley, South Yorkshire, S75 4AT

One sundial; in storage; catalogued with other artefacts. Sandstone, 2 ft square horizontal sundial. Inscribed with the initials SD and the date of 1736, the dial also has declination lines for each month. The time in Boston, New England and Constantinople is also shown around its perimeter. This sundial was previously on display in the garden of Cannon Hall before being stolen in 1998. It is now in storage following its recovery. This sundial is recorded in the BSS Register: SRN 0178.

CLIFTON PARK MUSEUM

Clifton House, Clifton Lane, Rotherham, South Yorkshire, S65 2AA

Two sundials; one on display and one in storage.

- i Stone, vertical declining sundial. With painted Roman hour numerals, the dial also has the date of 1904 and

Latitude 53 degrees 24 indicated. Three mottoes are also painted on the dial: "Let others tell of storms and showers I'll only count your sunshine hours", "Shadows we are like shadows depart" and "First the hour then the day moments take the time away".

The sundial previously came from Sundial House, Kimberworth, Rotherham. It was then displayed externally on Clifton House until refurbishments to the museum in 2005 caused it to be re-sited above the side door of an enclosed (indoor) courtyard. As a consequence, the sundial is not now functional.

- ii Stone, cube sundial on column and stepped base. Though an apparently simple sundial, its claim to local fame is its maker, Samuel Walker. Making sundials was Samuel Walker's hobby. He was the local iron foundry factory owner, this being one of the most important factories in the area at the end of the 18th century. Most of the cannon on HMS Victory were Walker cannon, and the first Southwark Bridge in London was made by Walkers. The sundial has been vandalised recently, but

the pieces broken from it are retained. The sundial will probably be repaired when time and funds allow. It is known locally as the "Walker Sundial".

VICTORIA JUBILEE MUSEUM

Taylor Hill, Cawthorne, Barnsley, South Yorkshire, S75 4HQ

One sundial; on display; catalogued separately. Stone sundial, with inscription: "Via vitse Feci 98". Made by John

Hawksworth, 1798. Used at All Saints Church, Cawthorne until a restoration of the church in the late 1880s. The sundial was then utilised, face down, as a paving stone (flagstone size) outside the church, until it was removed in 1952. Subsequently it was placed in the museum.

(CAWVJ:1981.0723)

YORKSHIRE (W)

ABBEY HOUSE MUSEUM

Abbey Walk, Kirkstall, Leeds, West Yorkshire, LS5 3EH

Three sundials; in storage; catalogued separately.

- i Brass and glass, combined sundial and compass, circa 1700. Inscribed: "Elevati Poli Amsterdam Jena 52 Madrid 40 Roma Salamanca 42, Andr. Vogl".
(LEEDM.E.W.1425)
- ii Brass, horizontal square sundial. Dated 1599, it has a hole at each corner for mounting.
(LEEDM.E.W.1426)
- iii Wooden, cylindrically turned sundial or calendar. With gauge marked around the edge it includes letters for months of the year.
(LEEDM.E.ZO.3259)

CLARKE HALL EDUCATIONAL MUSEUM

Clarke Hall, Aberford Road, Wakefield, West Yorkshire, WF1 4AL

One sundial; on display; catalogued separately. It is a vertical, south-facing sundial, set into stonework above the doorway into building. This sundial is recorded in the BSS Register: SRN 0281.

CLIFFE CASTLE MUSEUM

Spring Gardens Lane, Keighley, West Yorkshire, BD20 6LH

Some sundials; in storage; catalogued separately. No specific details, or numbers were given about the sundials except that one is from the garden of Abraham Sharp, who lived at Horton, Bradford in the 17th century. He assisted Flamsteed at Greenwich. Other sundials are of stone and from local buildings.

LOTHERTON HALL

Aberford, Leeds, West Yorkshire, LS25 3EB

One sundial; in storage; not catalogued. A sundial in the gardens of Lotherton Hall is recorded in the BSS Register: SRN 1155.

NOSTELL PRIORY (NT)

Doncaster Road, Nostell, Wakefield, West Yorkshire, WF4 1QE

No sundials are in the museum collection, however, a vertical sundial is fitted on the main exhibition building. This sundial is recorded in BSS Register: SRN 1303.

WAKEFIELD MUSEUM

Wood Street, Wakefield, West Yorkshire, WF1 2EW

One sundial; in storage; catalogued with other artefacts. Ceramic sundial. Recorded as being removed from an 18th century building.
(Acc. No. 1959.43)

CHANNEL ISLANDS

JERSEY HERITAGE TRUST

Jersey Museum, The Weighbridge, St. Helier,
Jersey, JE2 3NF

Four sundials; in storage; catalogued separately.

- i Slate dial with traces of paint and metal rod gnomon. Shaped as a truncated octagon with the top shaped as a semi-circle containing a flaming sun. With Roman numerals, it is also inscribed: "Guerin Facré" and "TB 1766". (JERSM/1979/239)
- ii Slate dial. Three individual fragments only remain, perhaps a quarter of the original dial. Includes a date 174 (9?) and fragmentary trace of a Roman hour numeral. Other part-markings may have formed arms of the de Carteret family. (JERSM/1988.110)

- iii Slate dial with triangular metal gnomon. (The Prince Regent Dial.) Rectangular dial plate, 309 mm × 301 mm; it is inscribed with the Royal Coat of Arms of George III. With Roman numerals it is also inscribed: "Prince Regent" and "TIME FLIES". (JERSM/1997/45)
- iv Stone dial with worn (detached) gnomon. 757 mm square dial plate with worn Roman numerals. This dial was originally located on St Peter's Church, but replaced by a new dial in 2004. The original sundial is recorded in the BSS Register as SRN 3846 and the replacement dial as SRN 5672.

ISLE OF MAN

MANX NATIONAL HERITAGE

The Manx Museum and National Trust, Douglas, Isle of Man, IM1 3LY

Twenty two sundials are in the collection; catalogued separately.

- i Copper sundial, with gnomon, inscribed: "George Barns of Douglas to Kirk Conchan Church". Made in 1708 at Onchan, Douglas, Isle of Man. (Acc. No. 1954-0327)
- ii Slate sundial. A thin circular slab of slate with numbers carved on both sides, with the obverse reversed. Made by Mr C Swynnerton as a trial piece. (Acc. No. 1954-0654)
- iii Slate sundial, with copper gnomon. Inscribed: "Howland Mathematic 1823". Made in 1823 at Howstrake, Onchan, Douglas, Isle of Man. (Acc. No. 1954-0694)
- iv Slate sundial. The gnomon is missing. Inscribed: "Ut Hora sic - vita J Kelly 1700". Made in 1700 at Santon, Isle of Man. (Acc. No. 1954-0883)
- v Slate sundial with compass. The gnomon is missing. Inscribed: "Wm. K.". Carved by William Kerruish schoolmaster of Jurby for grandfather of Mr Brew of The Lhen. Made c. 1810-1820 at Lhen Trench, Isle of Man by William Kerruish. (Acc. No. 1954-0884)
- vi Wooden sundial, in the form of a Latin Cross. The 19th century sundial was made for Mrs Cecil Hall of Douglas at Onchan, Douglas, Isle of Man. (Acc. No. 1954-1272)
- vii Slate sundial. Made in 1773, the dial face is badly worn and the gnomon is missing. (Acc. No. 1954-1273)
- viii Limestone sundial. Obelisk sundial of Pooilvaish marble probably made for Sir George Moore's Ballamoore (Patrick) estate. Inscribed in Manx, Latin and English and giving the time in Boston, Peking, Jerusalem and Port Royal, Jamaica, as well as in the Isle of Man. Made in 1774 at Ballafreer, Marown, Isle of Man by John Kewley. (Acc. No. 1954-1418)
- ix Limestone sundial, with gnomon. From White House,

Michael; the dial was made at Kirk Michael, Isle of Man. (Acc. No. 1954-1441)

- x Lead sundial, with gnomon; from White House, Michael. The dial was made at Kirk Michael, Isle of Man. (Acc. No. 1954-1457)
- xi Stone sundial pillar. Made in 1669. (Acc. No. 1954-1458)
- xii Slate sundial, octagonal in shape. (Acc. No. 1954-1463)
- xiii Limestone sundial. From Scarlett, Malew, Isle of Man. (Acc. No. 1954-1496)
- xiv Slate sundial, with gnomon. Inscribed: "Charles Cottier Marown 1815". Made in 1815 by Mr D. Cown. (Acc. No. 1954-1671)
- xv Slate sundial, with gnomon. This round sundial was made at Maughold, Ramsey, Isle of Man. (Acc. No. 1954-2537)
- xvi Brass sundial, with gnomon. The dial has Roman numerals and was made at Claghbane, Arbory, Isle of Man. (Acc. No. 1954-2726)
- xvii Slate sundial. This broken sundial was made at Cronk Breck, Malew, Isle of Man. (Acc. No. 1954-2834)
- xviii Brass sundial. 18th or 19th century. (Acc. No. 1954-3916)
- xix Slate sundial. The date of 1803 is engraved onto the dial. It is believed by the donor to have been in the possession of his family at either Kentraugh or Ballasherlogue. (Acc. No. 1954-4873)
- xx Slate sundial. Originally octagonal in shape. (Acc. No. 1954-6082)
- xxi Brass sundial, with iron gnomon. Inscribed: "Tempus fugit". (Acc. No. 1976-0014)
- xxii Slate sundial. The gnomon is missing. The dial from Santan churchyard has Roman hour numerals and is inscribed: "Mr E C Vicar 1685". (Ewan Cosnahan became vicar here some four years before this date.) It was made at Santan, Isle of Man. (Acc. No. L 21802)

CLWYD AREA

As no returns were received from museums contacted in this area it has been assumed that this indicates that no sundials exist in their collections.

DYFED AREA

CARMARTHEN MUSEUM

Abergwili, Carmarthen, Carmarthenshire, SA31 2JG

One scratch (mass) dial on a quern stone; in storage; catalogued separately. The scratch dial/quern stone was obtained from St Peter's Church, Carmarthen when the church was being refurbished early in the 20th century. It was originally fixed to the church wall by four iron clamps.

(Acc. No. 1977.0626)

CARMARTHEN TOWN MUSEUM & ART GALLERY

Carmarthen Library, St Peter's Street, Carmarthen, Carmarthenshire, SA31 1LN

Some sundials and scratch dials are in the museum collection. No details were given.

CEREDIGION MUSEUM

Coliseum, Terrace Road, Aberystwyth, Ceredigion, SY23 2AQ

Five sundials and one photograph; some on display and others in storage, but details not given.

- i Slate, horizontal sundial, made by Edward Davies, Aberystwyth and dated 1829. The 35.6 cm square sun-

dial, engraved with the maker's name, date and Lat. 52° 2.5', has Roman numerals, EoT correction ring and a 16-point compass rose at the centre.

(Acc. No. 1986.239.1)

- ii Lead, horizontal sundial, made by John Evans, Penygraig, Llanerchaeon. The 22.8 cm square sundial has Roman numerals. It is signed: "JOHN EVANS, PENYGRAIG." John Evans, the maker of this sundial, was probably the father of John Evans whose famous mathematical and commercial school stood at the corner of Chalybeat Street and Alexandra Road, where he taught astronomy. His public clock was regarded as the most accurate in the town. An old photograph in the museum shows John Evans' school with a sundial on the outside.
- iii Photograph showing John Evans' school with a sundial on the outside. (Octagonal, vertical dial.)
- iv Pocket sundial. (Copy of one made in 1767.)
- v Pocket sundial. (of the 1930s.)
- vi Brass, horizontal sundial. The square sundial has Roman numerals but is without the gnomon. It is mounted vertically on an ornamental piece of woodwork.

GLAMORGAN (MID)

CYFARTHFA CASTLE MUSEUM & ART GALLERY

Cyfarthfa Castle, Brecon Road, Merthyr Tydfil, CF47 8RE

One sundial in the museum collection. A portable magnetic sundial, by S. Porter Feicht (= Fecit?).

GLAMORGAN (SOUTH)

MUSEUM OF WELSH LIFE

St Fagans, Cardiff, CF5 6XB

Some sundials in the collection; in storage; catalogued separately. No details were given.

TREDEGAR HOUSE

Newport, Newport, NP1 9YW

One sundial; on display. The stained-glass sundial, dated 1672, has the motto "Lumen Morit Dei" and is set into a window on the first floor. This sundial is recorded in the BSS Register: SRN 0630.

GLAMORGAN (WEST)

GWENT

GWYNEDD AREA

As no returns were received from museums contacted in these areas it has been assumed that this indicates that no sundials exist in their collections.

POWYS

BRECKNOCK MUSEUM & ART GALLERY

Captains Walk, Brecon, Powys, LD3 7DS

One sundial; on display. Bronze, octagonal sundial approximately 6 inches 'across flats'. Roman hour numerals, a sun-face with rays at the centre and date of 1671 are engraved on the dial plate. The gnomon is broken and detached from the dial. The dial was found in the garden of Llanfaes Gaol, Brecon. (Probably a modern, 20th century dial.)

POWIS CASTLE (NT)

Welshpool, Powys, SY21 8RF

Two sundials; on display; however one is inaccessible to the general public. Both are catalogued with other statuary artefacts.

- i Horizontal brass sundial on fluted stone pedestal, in the Fountain Garden. The dial, by John Bennett of Crown Court, Soho, London, is dated 1770 and engraved with the Herbert coat of arms. (Accessible to the public.) Recorded in the BSS Register: SRN 1301.
- ii Multi-cube dial with double horizontal dial on top surface on a sandstone pedestal with slate top, located on the Bowling Green Terrace (illustrated). The cube has vertical dials on the South, East and West faces with the upper horizontal dial being octagonally-shaped. This horizontal dial by Henry Wynne is engraved with a stereographic grid, ecliptic with constellation sigils and "Cherbury Lat. 52d.37m.". (NOT accessible to the general public.) This sundial is recorded in the BSS Register: SRN 3416.



J. Davis, courtesy National Trust

BORDERS REGION

HALLIWELL'S HOUSE MUSEUM & ROBSON GALLERY

Market Place, Selkirk, Selkirkshire, TD7 4DU

One sundial; on display; catalogued separately. Given by a donor in Galashiels, but no other details supplied.

(ETLMS 3849)

TWEEDDALE MUSEUM

Chambers Institute, High Street, Peebles, Scottish Borders, EH45 8AJ

Two sundials; on display; catalogued separately.

- i Sundial plate. Sundial plate from the gardens of Bank House in Peebles which has associations with John Buchan the writer. It is engraved "Lat 56 Edin* Bengal India* Petersburgh* Jamaica W Indies*" plus four sets of numbers in Roman Numerals. (PEEBM:7135)
- ii Stone sundial. The two-faced stone sundial is said to have come from a site within the Burgh. It is 53 cm × 21 cm and has an associated date of 1708. (PEEBM:5206)

CENTRAL REGION

FALKIRK MUSEUMS (FALKIRK COUNCIL CULTURAL SERVICES)

Callendar House, Callendar Park, Falkirk, Stirlingshire, FK1 1YR

Four sundials and eighteen photographs which show sundials are in the museum collection. Some are displayed and some stored; catalogued separately. No details given of display or storage locations, except for Sundial iii.

Sundials:

- i Globe shaped sundial. Diameter: 32 cm. Carving on the face: (Zodiacal signs named along with their dates, the Equator, etc, and hours). (Acc. No. 1983-028-001)
- ii Pocket sundial. Later perforations in the base may have been to take a chain. The dial has the scale I to XII set on points of the compass. (Acc. No. 1985-073-003)
- iii Sundial on plinth. The sundial is set on a Corinthian capital on a square plinth. A panel on the plinth is inscribed: "EK/VB/1618". Currently displayed in the La Porte Shopping Centre, Grangemouth. According to the notes on a photograph in the Munn collection, the stones came from a monastery which stood on the site of the "Orchard", Grangemouth where the sundial was erected in circa 1920-30s. (Acc. No. 1988-019-001)
- iv Stone sundial. The small stone sundial is dated and bears the initials JL. The gnomon is missing but set on the shaft of a hammer, carved in relief below a crown. Although found at Carron House Lodge it is more probable that it was associated with Westerton which was temporarily in the hands of the Livingstone family, and which was later incorporated in to the Carron House estate. Carron House itself was only built in the 1760s on the site of an earlier cottage. (Acc. No. 1998-046-001)

Photographs:

- i View of a sundial mounted on a plinth at Airth Castle. (Acc. No. P01632)
- ii Close-up view of a sundial mounted on a plinth at Airth Castle. (Acc. No. P01633)
- iii View of a sundial in front of Auchenbowie House, Bannockburn, Stirling. (Acc. No. P01910)

- iv Group beside sundial, Kinnaird House. (Acc. No. P10533)
- v Sundial. (Acc. No. P15744)
- vi Sundial and garden. (Acc. No. P15882)
- vii War Memorial and sundial, Denny, Falkirk. (Acc. No. P17108)
- viii Callendar House 17th century sundial with Livingstone Arms. (Acc. No. P17581)
- ix Sundial. (Acc. No. P19233)
- x Sundial. (Acc. No. P19299)
- xi Sundial. (Acc. No. P19300)
- xii Sundial. (Acc. No. P19301)
- xiii Callendar House sundial. (Acc. No. P19302)
- xiv Garden. (Acc. No. P19330)
- xv Callendar House. (Acc. No. P19617)
- xvi St Andrews, Fife. Text on negative envelope reads: "St Andrews. Sundial over doorway in South Str." (Acc. No. P39704)
- xvii Strathmiglo, Fife. Text on negative envelope reads: "Strathmiglo. Base of Town Steeple in High Street. The bottom was once used as a "lock up" for malefactors. Arms on the face - Balfour of Burleigh. Stone sundial below taken from the top of the village cross built by the last RC incumbent of the parish." (Acc. No. P39724)
- xviii Strathmiglo, Fife. Text on negative envelope reads: "Strathmiglo. High Str with Town Steeple. 70 feet high with open balustrade & octagonal spire. Built about 1734." (Acc. No. P39725)

DUMFRIES & GALLOWAY

DUMFRIES MUSEUM & CAMERA OBSCURA

The Observatory, Rotchell Road, Dumfries, Dumfries and Galloway, DG2 7SW

Some sundials are in the museum collection; some on display and others in storage; catalogued separately. No specific details were given.

STRANRAER MUSEUM

The Old Town Hall, 55 George Street, Stranraer, Wigtownshire, DG9 7JP

Some sundials are in the museum collection; in storage; catalogued separately. No specific details were given.

FIFE

CULROSS PALACE

Royal Burgh of Culross, nr Dunfirmline, Fife, KY12 8JH

One sundial; on display; catalogued separately. Stone, vertical sundial above main entrance. Dated 1611. This sundial is recorded in the BSS Register: SRN 1360.

FIFE FOLK MUSEUM

High Street, Ceres, Fife, KY15 5NF

One sundial; on display; catalogued with other artefacts. A carved stone sundial, dated 1763 and inscribed: "Dum spectas, Fugio". Found in the garden of Bank of Scotland. Donated by the Bank of Scotland. (CERFF 1980:009)

HILL OF TARVIT MANSION HOUSE (NTS)

Ceres, Cupar, Fife, KY15 5PB

One sundial; on display; catalogued separately. Sandstone sundial, dated 1906 and built into the south front of house. The motto on the sundial reads: "Horas Non Numero Nisi Serenas". This sundial is recorded in the BSS Register: SRN 1849.

KELLIE CASTLE (NTS)

Pittenweem, Fife, KY10 2RF

Three sundials; on display; catalogued with other artefacts.

- i Armillary sphere sundial, in the gardens. Possibly designed by the architect Sir Robert Lorimer, circa 1900.

- ii Sundial, on top of the garden wall.

- iii Sundial, on top of the garden wall.

KIRKCALDY MUSEUM & ART GALLERY

War Memorial Gardens, Kirkcaldy, Fife, KY1 1YG

One sundial; in storage; catalogued separately; made in 1834 by Russell, Alexander & Co., Engineers, Kirkcaldy. (1964.29)

UNIVERSITY OF ST ANDREWS (MUSEUM COLLECTIONS)

St Andrews, Fife, KY16 9TK

One sundial and one meridian line; the dial is in storage; catalogued separately.

- i Double horizontal sundial, to the design of William Oughtred. Made by Hilkiah Bedford, it is signed on the dial: "Hilkiah Bedfo[rd] Londini fecit". The latitude of the dial is 56.5°. The sundial stood for many years in the garden of St Mary's College. Its plinth is still there. Ref: BSS Monograph No. 5, DH-10.
- ii Meridian line, situated in the University Library (South Street, St Andrews). The line was laid by James Gregory, Professor of Mathematics, 1668-1674. The survey reply form also notes a sundial in St Mary's College gardens. This latter sundial is recorded in the BSS Register: SRN 1770.

GRAMPIAN REGION

ABERDEEN MARITIME MUSEUM

Shiprow, Aberdeen, Aberdeenshire, AB11 5BY

Four sundials; in storage; catalogued separately.

- i Slate sundial, with bronze gnomon. The inscription on the slate dial plate reads: "James Walker Nether Banchory n.lat.57.9 1824 J C". (Cat. No. ADBMSO01875)
- ii Brass sundial plate. The sundial plate is inscribed with Roman numerals and a sun with crescent moon. (Cat. No. ABDMSO22237)
- iii Non-ferrous metal sundial. The horizontal sundial is dated 1707 and inscribed: "shaddowes". (Cat. No. ABDMSO28972)
- iv Non-ferrous metal sundial. Octagonal shaped horizontal sundial inscribed: "fugit irreparable tempus dignoscitur eventu Hugh Ross Tillynaught 1725 AD IW fecit".

Concentric circles are inscribed on the underside of the plate. (Cat. No. ABDMSO28973)

BRODIE CASTLE (NTS)

Brodie, Forres, Moray, IV36 2TE

Two sundials; on display; catalogued with other artefacts.

- i Sundial, in the Shrubbery Garden.
- ii Sundial, in the Shrubbery Garden.

CRATHES CASTLE GARDEN (NTS)

Crathes, Banchory, Aberdeenshire, AB31 5QJ

One sundial; on display; catalogued separately. The sundial is on a stone plinth with four carved faces. SRN 5799.

DRUM CASTLE (NTS)

Drumoak, Banchory, Aberdeenshire, AB31 5EY

Three sundials; on display, catalogued with other artefacts.

- i Analemmatic/human gnomon type sundial. Stones set into the grass, with Zodiac signs. This sundial is recorded in the BSS Register: SRN 5796.
- ii Bronze horizontal sundial, on pedestal. This sundial is recorded in the BSS Register: SRN 5797.
- iii Bronze horizontal sundial, on pedestal. This sundial is recorded in the BSS Register: SRN 5798.

MUSEUM OF SCOTTISH LIGHTHOUSES

Kinnaird Head, Fraserburgh, Aberdeenshire, AB43 9DU

There are some sundials in the museum collection; some on display and others stored. No specific details were given.

NATIONAL TRUST FOR SCOTLAND (NTS)

(NTS North East Region)

The Stables, Castle Fraser, Sauchen, Inverurie, Aberdeenshire, AB51 7LD

As reported, the following properties in the North East Region of the NTS have sundials:

Angus Folk Museum, Glamis - may have several sundials in museum collection.

Branklyn Garden, Perth - at least two pedestal dials with metal dial plates.

Castle Fraser, Inverurie - polyhedral lectern dial.

Crathes Castle, Banchory - several sundials.

Drum Castle, Banchory - several dials including horizontal pedestal dials from Haddonstone and a walk-in sundial in a sunken garden where the body of the person acts as the gnomon (analemmatic).

Haddo House, Ellon - five sided stone block dial with missing gnomons.

House of Dun, Montrose - horizontal pedestal dial.

Leith Hall, Kennethmont - decorative plinths with simple metal dials, possibly two.

Mar Lodge, Braemar - horizontal pedestal dial.

Pitmedden Garden, Ellon - huge polyhedral dial; three wall-mounted dials on North Thunder House.

Also reported by the NTS North East Region, other NTS properties known to have sundials:

Arduaine Garden, Loch Melfort.

Brodict Castle, Isle of Arran.

Brodie Castle, Morayshire.

Broughton House, Kirkcudbright - several dials.

Culzean Castle, Maybole, Ayrshire.

Dunkeld, Perthshire.

Falkland Palace, Fife.

Geilston Garden, Cardross.

Greenbank Garden, Glasgow.

Harmony House, Melrose.

The Hill House, Helensburgh.

Hill of Tarvit, Cupar.

Holmwood House, Glasgow.

House of the Binns, Linlithgow.

Hugh Miller's Cottage, Cromarty.

Inveresk Lodge, Musselburgh.

Inverewe Garden, Wester Ross.

Kellie Castle, Pitenweem.

Kittochside?, East Kilbride.

David Livingstone Centre?, Blantyre.

Lochalsh Woodland Garden, Kyle - piece of natural rock with metal dial-plate, the gnomon being in the form of an aeroplane.

Malleny Garden, Edinburgh.

Pollok Wood, Glasgow.

Priorwood?, Melrose.

Threave Garden, Castle Douglas.

Weaver's Cottage, Kilbarchan.

HIGHLAND REGION

GAIRLOCH HERITAGE MUSEUM

Achtercairn, Gairloch, Ross-shire, IV21 2BP

One sundial; in storage; catalogued separately. Horizontal sundial. The sundial came from Rubha Rédh lighthouse, a gift from the Northern Lighthouse Board.

(Acc. No. 00713)

HIGHLAND FOLK MUSEUM

Duke Street, Kingussie, Highlands, PH21 1JG

Three sundials; one on display and two in storage; catalogued separately.

- i Equatorial sundial, on display in museum picnic garden. The reproduction sundial was gifted to the museum in the 1970s. (Not accessioned.) This sundial is recorded in BSS Register: SRN 5899.

- ii Slate sundial with metal gnomon. Dated 1831. It came into the museum collection pre-1954 having been bought at a sale in Kingussie. (In storage.) (NL 35)

- iii Stone sundial top, gnomon missing. It came into the museum collection pre-1954 and is associated with the location of Strathspey. (In storage.) (NL 32)

INVERNESS MUSEUM & ART GALLERY

Castle Wynd, Inverness, Highlands, IV2 3EB

Two sundials; in storage; catalogued with other artefacts.

- i Stone sundial. The sundial, carved in relief, is inscribed: "I.N.K.R 1662". (Acc. No. 1992.109)
- ii Brass sundial. No specific details given.

LOTHIAN REGION

BIGGAR MUSEUM TRUST

Moat Park Heritage Centre, Kirkstyle, Biggar, Lanarkshire, ML12 6DT

One sundial; in storage; catalogued with other artefacts. A slate sundial, damaged.

EAST LOTHIAN COUNCIL MUSEUMS SERVICE

Library and Museums HQ, Dunbar Road, Haddington, East Lothian, EH41 3DX

One sundial; in storage. A stone, multi-facet head sundial. The stone is shaped as a bowl, with the external surface in octagonal form and having a hollow on each facet. Each of the hollowed-out facets forms a sundial. Between each facet, a mask is carved onto the stone work and below are

carved decorative leaves. The upper hollowed-out bowl of the stone is delineated to form a horizontal hollow dial. This sundial is recorded in the BSS Register. However, as described above, the dial is now held in the Museums Service store at Haddington and not at Lennoxlove as noted in the BSS Register: SRN 1492.

NATIONAL MUSEUMS OF SCOTLAND (NMS) (ROYAL MUSEUM OF SCOTLAND)

Chambers Street, Edinburgh, Edinburgh, EH1 1JF

Also, Queen Street, Edinburgh, Edinburgh, EH2 1JD

MAJOR NATIONAL COLLECTION OF SUNDIALS, ASTRONOMICAL, TIME-KEEPING AND OTHER SCIENTIFIC INSTRUMENTS.

See pages ix and 58.

ORKNEY ISLANDS

As no returns were received from museums contacted in this region it has been assumed that this indicates that no sundials exist in their collections.

SHETLAND ISLANDS

SHETLAND MUSEUM

Lower Hillhead, Lerwick, Shetland, ZE1 0EL

Two sundials; in storage.

- i Stone cube multiple sundial. The 31 cm cube of grey sandstone has incised markings on three sides and on the top. The top has two concentric circles and twenty one numerals marking the ends of the hour lines. Shorter, half and quarter hours lines are also shown.

The numerals shown are “2” up to “12” (at the top), then “1” to “11” inclusive. Although there are no gnomons, slots are cut into the faces to receive them. The sundial is of the mid 18th century style. Found outside an outhouse, near the Old Haa, South Green, Symbister, Whalsay, Shetlands. (Acc. No. A126-1994)

- ii Circular, portable sundial with hinged fold-down gnomon. Mounted in a small wooden case.

STRATHCLYDE REGION

AUCHINDRAIN MUSEUM

By Inveraray, Argyll, PA32 8XN

Some sundials in the museum collection; in storage; catalogued separately. No specific details given.

AULD KIRK MUSEUM

Cowgate, Kirkintilloch, Glasgow, G66 1AB

One sundial; on display. Stone, two-faced dial mounted on the crow-stepped gable-end of the museum. This sundial is recorded in the BSS Register: SRN 5919.

BURNS COTTAGE & MUSEUM

Alloway, South Ayrshire, KA7 4PY

One sundial; on display in the museum gardens; catalogued separately. Pedestal carved by James Thom. This sundial is recorded in the BSS Register: SRN 5638.

BUTE MUSEUM

Stuart Street, Rothesay, Isle of Bute, PA20 0EP

No sundials in the museum collection. However, the survey reply form notes that the Buteshire Natural History Society who run this museum also record rainfall and sunshine records for the island. A Sunshine Recorder is used for these purposes, although it is not located on the premises.

DEAN CASTLE

Dean Castle Country Park, off Dean Road, Kilmarnock, East Ayrshire, KA3 1XB

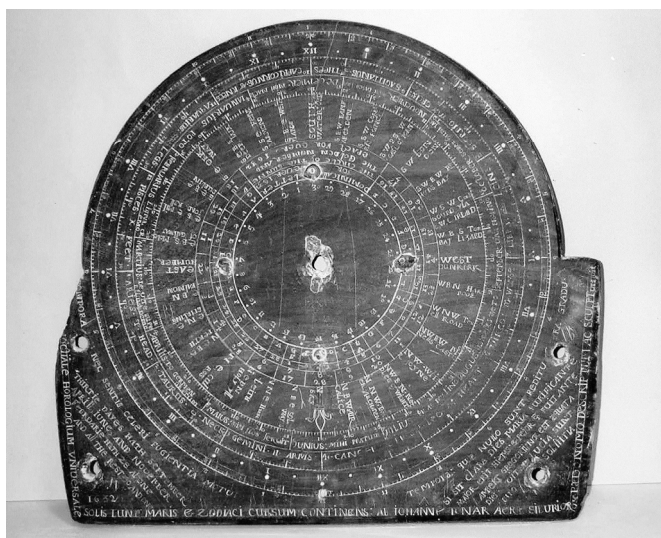
No sundials in the museum collection. However, there is a modern horizontal sundial in the grounds of the park. Circular brass plate with sun-face at the centre, mounted on a cylindrical plinth formed of individual stone pieces cemented together. The pedestal is surrounded by iron railings.

DICK INSTITUTE MUSEUM & ART GALLERY

Elmbank Avenue, Kilmarnock, East Ayrshire, KA1 3BU

Two sundials; in storage.

- i Brass sundial. The circular horizontal sundial has Roman numerals, an 8-point compass rose at the centre and is dated 1659.
- ii Slate sundial (illus.). The slate dial plate is of rectangular shape with the addition of a semi-circle to the longer side, and is inscribed on both sides. The gnomon is missing. It shows a very large variety of measurements and markings, including zodiacal and astronomical, and includes common sayings about the weather and the calendar ("thirty days hath September...") etc. The date of 1632 is shown on both sides. Possibly made by John Bonar.



East Ayrshire Council Arts & Museums

DOUGLAS HERITAGE MUSEUM

Bell's Wynd, Douglas, South Lanarkshire, ML11 0QH

One sundial; on display; catalogued separately. The sundial was rescued from the demolition of Douglas Castle. No details of the dial were given.

GLASGOW CITY COUNCIL

People's Palace, Glasgow Green, Glasgow, G40 1AT

Fifteen sundials and related objects; in storage; catalogued separately.

- i Silica sandstone sundial, polyhedral type, six pieces separated. Made in Midlothian, Scotland, late 17th century. (Acc. No. 44.83)
- ii Snuff box/sundial. Snuff mull of pale greenish-grey polished horn. Band of pewter or base metal around rim. Lid in the form of a sundial, with a collapsible shadow vane, and bearing a small inlaid compass. (Acc. No. A.1950.143.cy)
- iii Sundial face, of marble, square in shape but with corners slightly chipped. "SUNDIAL FROM MR SHERIF'S ALFROD, 15.9.1909, ABERDEENSHIRE" is written on the back. (Acc. No. A.1955.96.hx)
- iv Sundial, of brass, rectangular in shape and pierced at each corner for attachment. In the centre is inscribed the 'sun in glory', depicted as a face, with the gnomon forming the nose. The numerals are Roman, including

- III. Across the top is a scroll, with the words "Mors Venit" separating the date components 16 and 65. Size 12" x 10". The surface is slightly scratched, but not weathered or corroded. (Acc. No. A.1960.3)
- v Garden sundial face, of brass, consisting of flat square face with a hole in each corner and central brass gnomon, which partly overlies flame-bordered inscribed sun face. (Acc. No. A.1968.9)
- vi Photograph of "Sun Dial – West Regent Street" taken for the Glasgow Photographic Survey 1955. (Acc. No. (OG.1955.121.(400))
- vii Sundial on sandstone block, with male and female heads carved on the top (perhaps early 18th century). (Object donated by George McDougall, Glasgow, 3 April 1931). (Acc. No. PL1931.286)
- viii Sculpture entitled "Black Gnomon" by Liliane Lijn, 1969. (Acc. No. S.320)
- ix Slate sundial made by John Fulton. (Acc. No. T.1986.11.(3))
- x Six star maps, Gnomonic projections 1844, 8 pages. Shows parts of Constella Dons with signs of the zodiac in colour plate. (Acc. No. T1994.71)
- xi Sundial with compass, set in a small wooden oblong box, on top of which folds a lid bearing the sundial on the inside. The pointer of the sundial is formed by a thread between lid and box. Made in China, Chenghsien, Chekiang. (Acc. No. 1914.70.aa)
- xii Publication, "Primary triangulation on the one hundred and fourth meridian and on the thirty-ninth parallel in Colorado, Utah and Nevada", by William Bowie, Washington, 1914. (Acc. No. 1915.29.a)
- xiii Sundial from Robroyston, Scotland. (Acc. No. 1916.10.f)
- xiv Combined thermometer and sundial. Made in London. (Acc. No. 1920.72.c)
- xv Stone sundial, 1745. From a collection of Scottish domestic articles. (Acc. No. 1924.56.ag)

ISLE OF ARRAN HERITAGE MUSEUM

Rosaburn, Brodick, Isle of Arran, KA27 8DP

Two sundials; one on display and the other in storage; catalogued separately. No specific details given.

MUSEUM OF ISLAY LIFE

Port Charlotte, Isle of Islay, PA48 7UA

One sundial; on display; catalogued separately; from the Lighthouse at Loch Indaal, Port Charlotte.

NATIONAL BURNS MEMORIAL TOWER

Kilmarnock Road, Mauchline, East Ayrshire (no postcode was given)

One sundial; on display on top viewing platform of tower. The modern brass horizontal dial is circular in shape. It has an eight-point compass rose/sun-face at the centre, Arabic numerals and date of 1767. The motto around the dial reads: "Let others tell of storms and showers. I'll only count your sunny hours". The dial is mounted on a square sectioned stepped plinth.

TAYSIDE REGION

ALYTH MUSEUM

Commercial Street, Alyth, Perth and Kinross, PH11 8AF

One sundial; on display. (From the PERTH MUSEUM & ART GALLERY COLLECTION.) The pink sandstone sundial has incised segments and a slot for a gnomon. The stone is 1070 mm wide × 370 mm high × 22 mm thick.

(Acc. No. SHNN 1269)

ARBROATH SIGNAL TOWER MUSEUM

Ladyloan, Arbroath, Angus, DD11 1PU

Four sundials; two on display and two in storage; catalogued separately.

i Sundial, of Old Red Sandstone, broken in three pieces. Dated 1769. It is inscribed: "Yet now this present hour si ca [or sin] to you are not Time [?] good may great works begin. I S". Found at Drunkendubs, Inverkeilor.

(Acc. No. A 1986.126)

ii Highly carved stone sundial, 18th century (1743). Carved with flowers. Found in ploughed soil at Dusty Drum, East Mains of Dunnichen. It was allocated to the museum through the Treasure Trove process. (At the time of the survey on display in Montrose Museum.)

(Acc. No. DBA 3929)

iii Fragments of sundials removed from Cliff House, Arbroath: these parts are from more than one sundial.

a) Red sandstone block carved "1563 IQ FY", probably a marriage lintel.

b) Smaller flatter red sandstone block with lines radiating out for reading time "1675 N".

c) Red sandstone plinth for ? Sundial.

d) Square red sandstone block with remnants of gnomon? Marked "W ir IR 1686 and D". This is sitting on a red clay drain pipe on a red clay base which is mounted on a sandstone block (on display in Arbroath Museum Courtyard).

(Acc. No. DBA 1517)

iv Sunshine Recorder. Brass and iron stand with solid glass globe. Model Mark III made by Cassells, London. Met. Office Ref. No. 1459, Serial No. 862/81. It stands on three legs, 225 mm high × 150 mm wide and came from Belleview Weather Station, Arbroath.

(Acc. No. A 2002.124)

DUNBLANE MUSEUM

The Cross, Dunblane, Perthshire, FK15 0AQ

Two sundials; on display; catalogued with other artefacts.

i Sundial carved on sandstone. It is trapezoidal with one iron gnomon which is corroded. It measures 325 × 275 mm on the side without the gnomon and 260 × 285 mm on the surface with the gnomon. Another surface has numbers and lines carved on it.

ii Sundial carved on slate which is affixed to a wooden base and has three gnomons remaining on it. The central dial has Roman numerals around it and is engraved with amongst other words the name of the maker, "RICHARDUS MELVILLE, FACIT GLASGOW AD 1848."

The dial appears to be one of five made and dated by the same craftsman Richard Melville, Sundial Maker, 160 Saltmarket Street, Glasgow. The five date from 1845 to 1849. The central gnomon gives local time while the other eight smaller inscribed dials give the corresponding times in different parts of the world. It measures 410 × 405 × 5 mm.

GLAMIS CASTLE

Glamis, Angus, DD8 1RJ

One sundial; on display in the castle grounds; catalogued separately. (See illustration opposite.) The 20 ft high monument stands on an octagonal base and has 84 dial faces. The four main dials, facing North, South, East and West are each supported vertically by a lion upstanding on the plinth. The remaining 80 dials are the facets on the three tiers of the 'pineapple' set high above the lions. The sundial was erected in its present position by the 3rd Earl of Strathmore and Kingshorne between 1671 and 1680. This sundial is recorded in the BSS Register: SRN 1489.

McMANUS GALLERIES & MUSEUM

Albert Square, Dundee, Tayside, DD1 1DA

One sundial; in storage; catalogued separately. A portable ring-dial, circa 1700; the brass ring is 5 cm in diameter and can be suspended by a linked chain and loop. Another sliding ring is contained inside the brass ring. This inner ring contains 2 circular holes which can be seen through two slits on the interior surface of the brass outer ring. A metal square allows the inner ring to be slipped along the outer ring. The inner surface of the brass ring has two sets of graduations 1-12. On the outer surface is stamped: "S. H. W. Hancock. AM1."

(Acc. No. 65-191)

MONTROSE MUSEUM & ART GALLERY

Panmure Place, Montrose, Angus, DD10 8HF

Three sundials; one on display and two in storage; catalogued separately.

i Stone sundial 27.5 cm × 28 cm with gnomon. Date 1796; a capital letter is placed in each corner (A P I B). (On display.) (Acc. No. M 1977.656)

ii Stone base 60 cm × 57 cm with stucco base. Gnomon 20.5 cm. The piece has Roman numerals. (In storage.) (Acc. No. M 1977.655)

iii Bronze sundial. The circular base is decoratively engraved with banded information, direction points, months of year, numerals; "watch faster, watch slower" × 2; "Negret[ti] & Zambra - opticals to the Queen, London"; Roman numerals (1 - 8 & 4 - 12) and "presented by Mr J Hume Webster, London 1876." The gnomon was bent during vandalism. The dial was removed from a plinth in Dean's Park, Montrose having been attacked by vandals. It has since been conserved and is to be relocated in a more secure area in Montrose. (In temporary storage.) (Acc. No. M 1998.58)

PERTH MUSEUM & ART GALLERY

78 George Street, Perth, Tayside, PH1 5LB

Four sundials, and a number of photographs which show sundials are in the museum collection.

One sundial is on display (in a branch museum) and two are in storage. The location of one is not known at present; catalogued separately.

Sundials:

- i Pocket sundial, top is missing. The dial is 44 mm in diameter and 10 mm high. (In storage.)
(Acc No. K1972.103)
- ii Stone block sundial. The dial has markings on all four faces and was originally made for St Martins Church, Balbeggie. Inscribed: "Jo Donaldus Fecit", it is also dated 1773. The direct south facing dial has Roman numerals and a face above. The sundial originally had a white metal ball on the top, with an arrow which rotated below acting as a wind indicator. (In storage.)
(Acc. No. SHNN 1333)
- iii Pink sandstone sundial. The sundial has incised segments and a slot for a gnomon. The stone is approximately 900 mm wide and 150 mm high. (This sundial is on display in the Alyth Museum, Alyth, Perth and Kinross.)
(Acc. No. SHNN 1269)

- iv Stone block multiple sundial. The stone block, which has considerable damage, shows various shapes carved into its faces with some inscribed lines also. Found at Ardoch Roman Fort, Perthshire. However, the museum's archaeologist does not believe this to be of Roman origin. Poor photographic images only supplied. (See i below) (At present, the current location of this sundial is not known.)

Photographs:

- i Four photographic glass negatives of a (Roman ?) sundial found at Ardoch Roman Fort, Perthshire. The negatives date to 1918. (See iv above)
- ii Two photographic prints of sundial at Fiarion Farm, St Martins, Perthshire, pre-1995.
- iii One photographic glass negative of sundial at Celaries Castle, Angus, circa 1920.
- iv One photographic glass negative of sundial at Invermay House, Forteviot, Perthshire, 15.9.1921.
- v Two photographic prints of a couple with unknown sundial, pre-1990.

WESTERN ISLES

As no returns were received from museums contacted in this region it has been assumed that this indicates that no sundials exist in their collections.



Glamis Castle multiple dial. Photo by David Gauld.

ANTRIM & BELFAST

BALLYMONEY MUSEUM

Ballymoney Town Hall, 1 Townhead Street, Ballymoney, Co. Antrim, BT53 6BE

One nocturnal and a Gunter Quadrant; in storage.

- i Bronze nocturnal, engraved with the name and date: "A. R. Kyle 1781".
- ii Wooden Gunter quadrant. Length of radial side, approximately 10 cm.

CARNFUNNOCK COUNTRY PARK

Coast Road, Drain's Bay, Larne, Co. Antrim, BT40 2QG

A large collection of modern sundials, on display within the country park. Thirteen sundials of various types are recorded in the BSS Register: SRNs 3288-3300 inclusive.

ULSTER MUSEUM

Botanic Gardens, Stranmillis Road, Belfast, BT9 5AB

One sundial; in storage.

A small sundial. The circular sundial is about 12 cm in diameter, engraved on a round black stone. It was found during the course of archaeological excavations in 1922-1924 at Nendrum, Mahee Island, Co. Down at the monastery founded by St. Mochaioi. The dial is inscribed within two circles, with a third circle cutting all the lines close to the gnomon hole. The hour lines are numbered 1-12 for the day, and similarly for the night. The style of the characters used indicates a possible date between the 14th and 15th centuries. This dial is one of four discussed in an article in the *BSS Bulletin*, 20(ii) (2008) pp. 84-87; 'A Celtic Quartet', by Tony Wood and Finola O'Carroll.

ARMAGH

ADDRESS HOUSE (NT)

64 Address Road, Annaghmore, Portadown, Co. Armagh, BT62 1SQ

One sundial; in storage; catalogued separately. This sundial is recorded in the BSS Register: SRN 3757.

ARMAGH COUNTY MUSEUM

The Mall East, Armagh, Armagh, BT61 9BE

Nine sundials; some on display and others in storage, but not detailed; catalogued separately.

- i Brass sundial. The octagonal dial is 6.75" × 6.75" and is inscribed: "Lat 54 degrees. 14" north, Robert Lyle, Armagh. T. Perry, Fecit 1814". (Acc. No. 1935.0055)
- ii Gilded metal sundial. The ring-shaped dial, diameter 2 $\frac{1}{8}$ " and width 7/16", is stamped: "Proctor". (Acc. No. 1935.0296)
- iii Bronze sundial. The 8 $\frac{1}{4}$ " × 7 $\frac{1}{4}$ " dial is inscribed: "Lat 54 18 Ano Domini 1839. Robert Bell". Drumcon ss (?). (Acc. No. 1938.0046)
- iv Red stone sundial. The stone cube dial measures 8" high × 7 $\frac{7}{8}$ " and is engraved: "Latt 54 35 Willm. Nicholson; fecit: 1732". William Nicholson of Ballow, Co. Down was born on 23 October 1699 and died 17th June 1740. (Acc. No. 1939.0024)
- v Slate sundial. The 18" × 15" slate dial has Roman numerals and a compass rose at the centre. It is inscribed: "Latitude 54 21 North, Wm Dobbin, Ternascobe, Richard Melville, Fecit AD 1842". Outside the hours are inscribed the months and Equation of Time corrections, and in each corner is a small dial giving the time at New York, Alexandria, Sydney and Bombay. (Acc. No. 1947.0075)
- vi Slate sundial. The 14 $\frac{7}{8}$ " across sundial is without the gnomon. It is inscribed: "Made by H Kennedy for Latitude 54 degrees, 22', Anno Domini, 1818". (Acc. No. 1957.0078)

vii Slate sundial. The slate sundial measures 9 $\frac{1}{2}$ " × 10 $\frac{1}{2}$ " and is inscribed: "Tyrone Ireland 1813 (or 1815) John MM Carricklongfield". The gnomon is missing. This sundial was saved from the gable end of a house in Carricklongfield, Co. Tyrone. (Acc. No. 1958.0074)

viii Slate sundial. The 7 $\frac{3}{4}$ " square sundial is inscribed: "lat 55 degrees for Jane Campbell 1822, by D Kelly". It has an iron gnomon. (Acc. No. 1958.0176)

ix Brass sundial. The 15 $\frac{1}{2}$ " diameter sundial is inscribed: "Mason, Dublin"; with Gervais crest above monogram "FG" on elaborately engraved dial with minutes, hours, times abroad, the signs of the Zodiac, the months, days, and corrections in concentric circles. This sundial is recorded in the BSS Register: SRN 6037. (Acc. No. 1960.0031)

CRAIGAVON MUSEUM

Pinebank, Tullygally, Craigavon, Co. Armagh, BT65 5BY

One nocturnal; in storage, a brass nocturnal (incomplete). No other details were given.

CRAIGAVON MUSEUM SERVICES

Waterside House, Annaloiste Road, Oxford Island, Craigavon, Co. Armagh, BT66 6NJ

One sundial; in storage; catalogued with other artefacts, a brass sundial plate. No other details were given.

THE ARGORY (NT)

144 Derrycaw Road, Moy, Dungannon, Co. Armagh, BT71 6NA

One sundial; on display in the Rose Garden; catalogued separately. Brass, horizontal dial on a fluted plinth. The dial which has many unusual features bears the Bond Armorial Shield and the motto "NEMO ME IMPUNE LACESIT". The maker's name is also inscribed: "LYNCH & SON, DUBLIN" and with the date "A.D. 1820". This sundial is recorded in the BSS Register: SRN 5608.

DOWN

DOWN COUNTY MUSEUM

The Mall, Downpatrick, Co. Down, BT30 6AH

Eight sundials; in storage; catalogued separately.

- i Slate, octagonal sundial with large brass gnomon. Inscription illegible. (Mus. No. DB25 1985-125)
- ii Slate, rectangular sundial. Originally 5 brass gnomons, but 1 missing. (Mus. No. DB38 1985-86)
- iii Slate sundial, split and partly broken, with brass gnomon. Made by William Strainey for William Henry of Ballyhosset, 1796. (Mus. No. DB219 1990-43)
- iv Slate, octagonal sundial with brass gnomon. Made by Edward Smyth in Ballyrolly for Mr John Bradley, undated. (Mus. No. DB282 1993-591)
- v Slate, square sundial. The gnomon is missing. Made by Richard Melvin for John Sandwich of Downpatrick, 1832. (Mus. No. DB324 1993-592)
- vi Slate, square sundial. The gnomon is missing. Made for Stewart Windsor by William Brew, a schoolmaster from Inch near Downpatrick, undated. (Mus. No. DB641 1993-287)
- vii Slate, square sundial. The gnomon is missing. Made for Daniel Kerr, undated. (Mus. No. DB643 1993-305)
- viii Slate, rectangular sundial. Originally 5 brass gnomons, but 1 missing. The four smaller dials, one at each corner, are for the locations of: Savanna, Calcutta, Botany and New York. "Jas Murry J McNally fecit X H HH 1111" (1834). (Mus. No. DB562 1993-590)

The BSS Register also records a horizontal brass sundial made by Mason, Dublin in this museum: SRN 3612.

NORTH DOWN HERITAGE CENTRE

Town Hall, Bangor, Co. Down, BT20 4BT

One sundial; on display; catalogued with other artefacts. Sun and moon dial, by John Bonar of Ayr, 1630. This rare double sided dial is inscribed for the summer hours on the upper side, and for the winter hours on the lower side. It also carries tidal information, rhymes about the weather and biblical texts. The dial is covered with mottos and verses in Latin and Scots. Originally designed for Bangor Abbey Church. The dial has been described and the inscriptions translated in *The Ulster Journal of Archaeology*, Vol. VII, October 1901, in the article 'The Sun-dial at Bangor County Down' by Francis Joseph Bigger M.R.I.A.

ROWALLANE HOUSE (NT)

Saintfield, Ballynahinch, Co. Down, BT24 7LH

One sundial; on display in gardens; catalogued separately. This sundial is recorded in the BSS Register: SRN 5611.

ULSTER FOLK AND TRANSPORT MUSEUM

153 Bangor Road, Holywood, Co. Down, BT18 0EU

Seven sundials; in storage; catalogued with other artefacts.

- i Slate sundial. The small sundial is inscribed with Roman numerals, months and a 'Sun too fast/Sun too slow' correction scale to match the warmer and colder months. It is inscribed: "James Walsh sculpsit". Acquired in 1961 as part of a general donation of household items from Crossgar, Co. Down. (Mus. No. DB. 41)
- ii Slate sundial. The small sundial is inscribed with Roman numerals and "This dial was cut for 54 D 15 M North Latitude by John Jennings in the 21st year of his life, etc" and "A D N 1813". Acquired in 1961 as a single donation from a Major T G Johnston, Castlewella, Co. Down. (Mus. No. DB. 46)
- iii Slate sundial. The small sundial has a well made metal triangular gnomon but the dial face is unfinished. Donated by Mr J Copper, Upper Newtownards, Belfast. (Acc. No. 768.1965)
- iv Slate sundial. The sundial has Arabic hour numerals. It once belonged to a well known local antiquarian (Biggar Collection). (Acc. No. 432.1972)
- v Slate sundial. The dial face is badly worn, but the name *William Adair Esq.* and the date 1794 are legible. Donated by Mrs McWilliams, San Fransisco, USA; being part of a general donation of items from the family farmhouse in Co. Antrim. (Acc. No. 756.1972)
- vi Slate sundial. The thick square sundial is incised with various times and latitudes and includes "BLACK Hd LIGHT H." and the date "1908". (Donated via the Maritime department?)
- vii Slate sundial. The square sundial is inscribed: "BY. J.C. 1855." and "JOSEPH MAXWELL". As well as local time, the main central dial also indicates that in Van Diemen's Land (Tasmania). Smaller dials at the four corners give the times at London, New York, St Petersburg and Jerusalem.

FERMANAGH

FERMANAGH COUNTY MUSEUM

Enniskillen Castle, Enniskillen, Co. Fermanagh, BT74 7HL

Two sundials; in storage; catalogued separately.

- i Black slate, hexagonal sundial, incised with compass markings and "Lat. 54 16". The hours are marked from 4 am to 8 pm.

- ii Slate, square sundial with Roman numerals. The sundial also has simple incised decoration including adjoining pairs of triangles hatched and cross-hatched adjoining hatched semi-circles, shamrocks, a cock and parrot. It was made around 1815 and was found in a ditch on the donor's farm.

LONDONDERRY

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

TYRONE

ULSTER AMERICAN FOLK PARK

2 Mellon Road, Castletown, Omagh, Co. Tyrone, BT78 5QY

No sundials are in the museum collection. However there is one horizontal sundial located at the 'look-out point' in the park. It was commissioned for the opening of the park in 1976. This sundial is recorded in the BSS Register: SRN 5615.

CARLOW

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

CAVAN

CAVAN COUNTY MUSEUM

Virginia Road, Ballyjamesduff, Co. Cavan, Ireland.

Two sundials; both in storage; catalogued separately with other artefacts. No details were given.

CLARE CORK

As no returns were received from museums contacted in these counties it has been assumed that this indicates that no sundials exist in their collections.

DONEGAL

DONEGAL COUNTY MUSEUM

High Road, Letterkenny, Co. Donegal, Ireland.

Two sundials; both in storage; catalogued separately.

- i Slate, seven-sided sundial, with a perforated bronze gnomon. The dial is very intricately engraved with a 32-point compass rose, months of the year, hours, minutes, EoT corrections and also astrological signs. It is also engraved: "Cut by Robert Wilson September 9th 1863".
(Museum No. DM 1988.0013)

- ii Slate, square sundial with cropped corners. The dial plate is broken into four pieces. The dial has a 16-point compass rose at the centre and Roman numerals. The slate surface has flaked away leaving part inscriptions of: "Lat 55" and "...elly 1822".
(Museum No. DM 1992.0091)

DUBLIN

BAILY LIGHTHOUSE MUSEUM

Howth Head, Co. Dublin, Ireland.

Four sundials; on display.

- i Brass, equinoctial sundial (circa 1800). Complete with octagonal carrying case. The dial incorporates a silvered magnetic compass, engraved in degrees with eight points of the compass, and a device for fixing the magnetic needle in position for carrying purposes. The hour circle is engraved to read 15 minute intervals, and is adjustable for latitude to give universal usage. The brass base of the dial is fitted with two spirit levels and three milled finger screws for levelling purposes.
- ii Heliochronometer. Manufactured by Pilkington & Gibbs in Preston, Lancs. Although the numerals on the dial-plate and the Equation of Time disc are worn from excessive polishing, it is in good working order. It has the following markings: "Pilkington & Gibbs Ltd., Preston", "C.I.L." (meaning Commissioners of Irish Lights), "1908" (year of purchase) and "G.J.Gibbs, Inventor". This sundial was installed at the fog signal sta-

tion at Mizen Head, on the southwest headland of Ireland in 1908 and was removed to Irish Lights head office in Dublin in the 1950s.

- iii Bronze, horizontal sundial (circa 1866). This sundial is of the standard pattern used on British and Irish lighthouses during the 19th and early 20th century. With an 8-point compass rose, EoT correction scale and Roman hour numerals, the dial is also graduated at 2 minute intervals. Also engraved is the maker's name, "Yeates & Son, Dublin", and the name of the lighthouse for which it was made, "Blacksod Point Lighthouse".
- iv Slate sundial (circa 1904). The 457 mm square sundial has Roman hour numerals and Equation of Time details. This sundial was made for the Fastnet Rock lighthouse, which was completed in 1904, but was taken ashore to the museum in 2003 due to erosion of the dial-plate, as a result of heavy seas breaking across the Rock.

EIRE

NATIONAL MUSEUM OF IRELAND

Collins Barracks, Benburb Street, Dublin 7, Co. Dublin, Ireland.

MAJOR NATIONAL COLLECTION OF SUNDIALS AND OTHER SCIENTIFIC INSTRUMENTS

See pages ix and 58.

In 1990 the Scientific Instrument Society compiled an Inventory of Historic Scientific Instruments, including sundials within the museum, this being published by the Royal Dublin Society. Within this inventory a number of slate and stone sundials were also described. The majority of the slate and stone sundials are now held in the collections of

the Irish Folklife Division of the museum. That division of the museum is now based at the Museum of Country Life, Turlough Park House, Turlough, Co. Mayo. (See also the entry for Co. Mayo.)

C. Mollan: *Visit of the Scientific Instrument Society to Dublin, May 1990: An Inventory of Historic Scientific Instruments in Institutional Collections Included in the Visit*, The Royal Dublin Society and EOLAS-The Irish Science and Technology Agency, (1990).

In 1994 a further large collection of sundials was acquired by the museum.

GALWAY

COOLE PARK

Gort, Co. Galway, Ireland.

One sundial; on display in Walled Garden of the park. Analemmatic/human gnomon type sundial. This sundial is recorded in the BSS Register: SRN 5868.

GALWAY CITY MUSEUM

Spanish Arch, Galway, Co. Galway, Ireland.

No sundials are held in the museum collection, however the survey reply form noted the very large (50 ft diameter) "Calendar Sundial" at Brigit's Garden, Pollagh, Roscahill, Co. Galway.

KERRY

CORCA DHUIBHNA MUSEUM

Ballyferriter, Co. Kerry, Ireland.

No sundials are held in the museum collection, however the survey reply form noted the sundial on the nearby ecclesiastical site at Kilmalkeda. This sundial is recorded in the BSS Register: SRN 5274.

DERRYNANE HOUSE

Caherdaniel, Co. Kerry, Ireland.

One sundial; on display; catalogued with other artefacts. The sundial is possibly early 20th century, but no other details were supplied.

KILDARE

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

KILKENNY

MUSEUM OF THE KILKENNY ARCHAEOLOGY SOCIETY

Rothe House, Parliament Street, Kilkenny, Co. Kilkenny, Ireland.

One sundial; in storage; catalogued with other artefacts. An octagonal slate sundial with Roman numerals.

NOREVIEW FOLK AND HERITAGE MUSEUM

Danesfort Road, Bennetsbridge, Co. Kilkenny, Ireland.

One sundial; on display; catalogued with other artefacts. No details were given.

LAOIS

DONAGHMORE WORKHOUSE MUSEUM

Donaghmore, Port Laoise, Co. Laois, Ireland.

No sundials are held in the museum collection. However, the survey reply form notes a sundial in the Heywood Gardens, Ballinakill, Co. Laois, but no details of the dial were

given. The dial was created by Sir Edwin Lutyens; the gardens are now managed by the Office of Public Works.

LEITRIM

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

LIMERICK

LIMERICK CITY MUSEUM

Castle Lane, Nicholas Street, Limerick City, Co. Limerick, Ireland.

Four sundials; in storage; catalogued separately.

- i Bronze, square horizontal sundial with Roman numerals. The dial plate has clipped corners and the gnomon is missing. It is inscribed: "For ye use of ye parish of Kilmurry in ye Nr. Libertyes of Limerick. Jan 22 1713".
(Inv. No. 1979.0027)
- ii Slate, circular horizontal sundial with Roman numerals. The gnomon is missing. The dial has a small 32-point compass rose, a number of declination lines and a series

of 24 city names from around the world are also indicated. There is also another smaller 'watch correction dial' engraved onto the dial plate which has the inscription: "Constructed & Engraved / For / Lord Clarina. / By / Michael Fitzgerald. / 1841". Just below the 'watch correction dial' is inscribed: "Long. 40. W., Lat. 52."

- (Inv. No. 1987.0200)
- iii Bronze, rectangular horizontal sundial with Roman numerals.
(Inv. No. 0000.0393)
- iv Slate, circular horizontal sundial with Roman numerals and a 16-point compass rose at the centre. The gnomon is missing. Engraved: "By John Hayes / 4 May 1821."
(Inv. No. 0000.4740)

LONGFORD

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

LOUTH

DUNDALK COUNTY MUSEUM

Jocelyn Street, Dundalk, Co. Louth, Ireland.

Three sundials; in storage; catalogued separately.

- i Slate, square sundial with Roman numerals, inscribed: "Mr William Burne" and "John Boyle Maker 1797".
(Inv. No. 1994.3.214)

- ii Slate, circular sundial. Inscribed: "Christian Brothers Dundalk 1886". In addition to hours, the dial is also marked for months, days and minutes.

(Inv. No. 1994.6.1)

- iii Slate, octagonal sundial with Roman numerals, inscribed: "Patt Neary 1821" and "54 degrees N." From Whiterath House, Dromiskin; the sundial is marked for Irish Time, rather than Greenwich Mean Time.

MAYO

CLEW BAY HERITAGE CENTRE

The Quay, Westport, Co. Mayo, Ireland.

No sundials are in the museum collection.

However, the survey report form notes a sundial situated at "The Idle Wall", Westport Quay. Erected in 1990, it commemorates casual workers who sat on this wall waiting for work. This sundial is recorded in the BSS Register: SRN 5629.

KILTIMAGH MUSEUM

The Railway Station, Kiltimagh, Co. Mayo, Ireland.

One sundial; on display; a Sol Horometer, made by Pilkington & Gibbs.

NATIONAL MUSEUM OF IRELAND

(Irish Folklife Division)

Turlough Park House, Castlebar, Co. Mayo, Ireland.

MAJOR NATIONAL COLLECTION OF SUNDIALS

See pages ix and 58.

About thirty sundials are in the collection. The larger portion of the collection is formed of slate sundials as documented by the Scientific Instrument Society at the National Museum of Ireland, Dublin in 1990. (See also the entry for Co. Dublin.)

A number of the slate dials have been described and are recorded with sketch drawings, on index cards at this museum.

MEATH

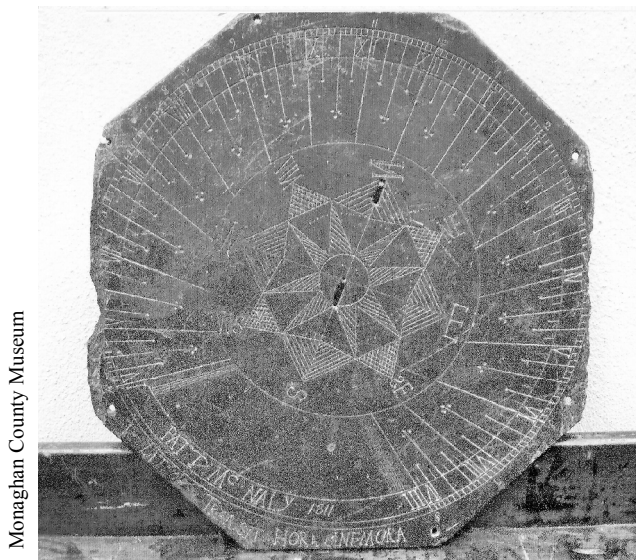
As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

MONAGHAN

MONAGHAN COUNTY MUSEUM

1-2 Hill Street, Monaghan, Co. Monaghan, Ireland.

One sundial (illus.); in storage; catalogued separately. Slate, octagonal sundial. There is some damage to two opposite edges and the gnomon is missing. The dial has a 16-point compass rose at the centre, Roman hour numerals and also with these being shown in smaller Arabic numerals. It is inscribed: "PATT Mc NALY 1811" and "T LAT 54 TRANSIT HORA SINE MORA". (Inv. No. 1994.194)



Monaghan County Museum

OFFALY

BIRR SCIENTIFIC AND HERITAGE CENTRE

Ireland's Historic Science Centre,
Birr Castle Demesne, Birr, Co. Offaly, Ireland.

There are some sundials in the collection but the number was not given. They are catalogued with other artefacts. Various types of sundial are on display, including portable brass and 'Butterfield' dials, ivory diptych dials, astrolabes and other astronomical instruments. A large horizontal slate sundial is also on display; approximately 18 inches square, it has Roman numerals and considerable and varied decoration. It is engraved: "Con^s By W.M. for LAT 52° 30" XV", "BOHERNA" and "Birr CASTLE Feb^r 20th. 1839. A.D."

An equatorial sundial is also noted, sited in the private Rose Garden of the Castle. It was made in about 1990 by Captain

O. M. Deignan, Master of Lights. This sundial is recorded in the BSS Register: SRN 3938.

A Meridian Line runs through the great 'Leviathan Telescope', situated in the grounds, that was constructed in the 1840s by the Third Earl of Rosse and which has recently been restored.

The galleries of the Heritage Centre feature the construction of the giant astronomical telescope by the Third Earl of Rosse with its associated discoveries. Other galleries include the pioneering photographic work of Mary, Countess of Rosse in the 1850s. The work of their son Charles Parsons, whose main invention, the steam turbine engine, is also presented in the centre.

ROSCOMMON

DERRYGLAD FOLK MUSEUM

Tuam Road, Curraghboy, Athlone, Co. Roscommon, Ireland.

Two sundials; on display.

- i Slate, horizontal sundial. The sundial was made by Thomas Wall, grandfather of the present owner of the museum, Mr Charles Finneran.
- ii Slate, horizontal sundial. (Damaged)

ROSCOMMON COUNTY MUSEUM

John Harrison Memorial Hall, The Square, Roscommon, Co. Roscommon, Ireland.

One sundial; on display; catalogued with other artefacts. Slate, a 9 in. circular sundial. The gnomon is missing. It was on temporary loan from Mr James M. Moran of Athleague, Co. Roscommon, at the time of the survey.

**ROSCOMMON
TIPPERARY
WATERFORD
WESTMEATH**

As no returns were received from museums contacted in these counties it has been assumed that this indicates that no sundials exist in their collections.

WEXFORD

BALLYMORE HISTORIC FEATURES

Ballymore, Camolin, Co. Wexford, Ireland.

Two sundials; on display in the grounds; not catalogued.

- i Bronze, 10" octagonal sundial. Made by Spears & Co., 28 College Green, Dublin.
 - ii Brass, 8" circular sundial. (Possible copy?) It is dated 1767 and has the inscription: "Let others tell of storms and showers I only count your sunny hours".
-

WICKLOW

As no returns were received from museums contacted in this county it has been assumed that this indicates that no sundials exist in their collections.

INDEX OF INCLUDED MUSEUMS

with Location and County, Area or Region

Eng - England; Ei - Eire / Republic of Ireland; Is - Islands; NI - Northern Ireland;
S - Scotland; W - Wales

ABBEY HOUSE MUSEUM	Yorkshire (W)	Eng	BUXTON MUSEUM & ART GALLERY	Derbyshire	Eng
ABERDEEN MARITIME MUSEUM	Grampian R	S	CANNON HALL MUSEUM	Yorks (S)	Eng
ALDEBURGH MUSEUM	Suffolk	Eng	CARMARTHEN MUSEUM	Dyfed A	W
ALLHALLOWS MUSEUM	Devon	Eng	CARMARTHEN TOWN MUS. & GALL.	Dyfed A	W
ALTHORP	Northants	Eng	CARNFUNNOCK COUNTRY PARK	Ant & Bel	NI
ALYTH MUSEUM	Tayside Reg	S	CASTLE HOWARD	Yorks (N)	Eng
AMERICAN MUSEUM	Somerset	Eng	CASTLE MUSEUM	Notts	Eng
ARBEIA ROMAN FORT & MUSEUM	Tyne & Wear	Eng	CAVAN COUNTY MUSEUM	Cavan	Ei
ARBROATH SIGNAL TOWER MUS.	Tayside Reg	S	CEREDIGION MUSEUM	Dyfed A	W
ARDRESS HOUSE (NT)	Armagh	NI	CHAMPS CHAPEL MUSEUM	Oxon	Eng
ARGORY [THE] (NT)	Armagh	NI	CHASTLETON HOUSE (NT)	Oxon	Eng
ARMAGH COUNTY MUSEUM	Armagh	NI	CHELTENHAM MUS. & ART GALL.	Gloucs	Eng
ASHMOLEAN MUSEUM	Oxfordshire	Eng	CHERTSEY MUSEUM	Surrey	Eng
ASHWELL VILLAGE MUSEUM	Herts	Eng	CHESTERFIELD MUSEUM SERVICE	Derbys	Eng
AUCHINDRAIN MUSEUM	Strathclyde Re	S	CHESTERS ROMAN FORT AND MUS (EH)	Northumb.	Eng
AULD KIRK MUSEUM	Strathclyde Re	S	CHISWICK HOUSE	London G	Eng
BAILY LIGHTHOUSE MUSEUM	Dublin	Ei	CITY MUSEUM, CANTERBURY	Kent	Eng
BALLYMONEY MUSEUM	Antrim & Bel	NI	CLARKE HALL EDUCATIONAL MUS.	Yorks (W)	Eng
BALLYMORE HISTORIC FEATURES	Wexford	Ei	CLEW BAY HERITAGE CENTRE	Mayo	Ei
BEAMISH, THE NORTH OF ENGLAND OPEN AIR MUSEUM	Durham	Eng	CLIFFE CASTLE MUSEUM	Yorks (W)	Eng
BEDFORD MUSEUM	Beds	Eng	CLIFTON PARK MUSEUM	Yorks (S)	Eng
BENINGBROUGH HALL (NT)	Yorkshire (N)	Eng	CLIVEDEN (NT)	Bucks	Eng
BERKELEY CASTLE	Gloucestershire	Eng	CLOCKMAKERS' MUSEUM	London (Gr)	Eng
BERRINGTON HALL (NT)	Herefordshire	Eng	COLCHESTER MUSEUMS	Essex	Eng
BICTON PARK BOTANICAL GARDENS	Devon	Eng	COMMANDERY	Worcs	Eng
BIGGAR MUSEUM TRUST	Lothian Region	S	COOKWORTHY MUSEUM	Devon	Eng
BIRR SCIENTIFIC & HERITAGE C.	Offaly	Ei	COOLE PARK	Galway	Ei
BLACK COUNTRY LIVING MUSEUM	West Midlands	Eng	CORCA DHUIBHNA MUSEUM	Kerry	Ei
BLENHEIM PALACE	Oxfordshire	Eng	CRAIGAVON MUSEUM	Arm. & Bel.	NI
BLICKLING HALL (NT)	Norfolk	Eng	CRAIGAVON MUSEUM SERVICES	Arm. & Bel.	NI
BOWES MUSEUM	Durham	Eng	CRATHES CASTLE (NTS)	Gramp R.	S
BRECKNOCK MUSEUM & ART GALL.	Powys	W	CROXTETH HALL & COUNTRY PARK	Merseyside	Eng
BREWHOUSE YARD MUSEUM	Notts	Eng	CULROSS PALACE	Fife	S
BRIDEWELL MUSEUM	Norfolk	Eng	CYFARTHFA CASTLE MUSEUM & ART GALLERY	Glam (M)	W
BRISTOL INDUSTRIAL MUSEUM	Bristol	Eng	DARTFORD BOROUGH MUSEUM	Kent	Eng
BRITISH EMPIRE & COMMONWEALTH MUSEUM	Bristol	Eng	DARTMOUTH MUSEUM	Devon	Eng
BRITISH MUSEUM	London (Gr)	Eng	DEAN CASTLE	Strathclyde R	S
BRODIE CASTLE (NTS)	Grampian Reg	S	DERBY MUSEUM & ART GALLERY	Derbyshire	Eng
BROUGHTON CASTLE	Oxfordshire	Eng	DERRYGLAD FOLK MUSEUM	Roscom	Ei
BUCKINGHAMSHIRE COUNTY MUS.	Bucks	Eng	DERRYNANE HOUSE	Kerry	Ei
BURGHLEY HOUSE	Lincolnshire	Eng	DICK INSTITUTE & ART GALLERY	Strath R	S
BURNS COTTAGE & MUSEUM	Strathclyde Re	S	DISCOVERY MUSEUM	Tyne & We	Eng
BURTON AGNES HALL	Yorkshire (ER)	Eng	DONAGHMORE WORKHOUSE MUS.	Laois	Ei
BUSCOT HOUSE (NT)	Oxfordshire	Eng	DONEGAL COUNTY MUSEUM	Donegal	Ei
BUTE MUSEUM	Strathclyde	S			

MUSEUMS

DONINGTON LE HEATH MANOR HOUSE MUSEUM	Leics	Eng	KIRKCALDY MUS. & ART GALLERY	Fife	S
DORSET COUNTY MUSEUM	Dorset	Eng	KIRKLEATHAM MUSEUM	Yorks (N)	Eng
DOUGLAS HERITAGE MUSEUM	Strathcly Reg	S	LACKHAM MUS. OF AGRICULTURE AND RURAL LIFE	Wiltshire	Eng
DOVER CASTLE MUSEUM (EH)	Kent	Eng	LACOCK ABBEY (NT)	Wiltshire	Eng
DOWN COUNTY MUSEUM	Down	NI	LANCASTER CITY MUSEUM & MARITIME MUSEUM	Lancashire	Eng
DOWN HOUSE (EH)	Kent	Eng	LEICESTERSHIRE COUNTY COUNCIL MUSEUMS	Leicestershire	Eng
DRUM CASTLE (NTS)	Grampian Reg	S	LEIGHTON HOUSE MUSEUM	London (Gr)	Eng
DUMFRIES MUS & CAMERA OBSCURA	Dumf & Gall	S	LETCHWORTH MUS. & ART GALL.	Hertfordshire	Eng
DUNBLANE MUSEUM	Tayside Reg	S	LIMERICK CITY MUSEUM	Limerick	Ei
DUNDALK COUNTY MUSEUM	Louth	Ei	LOCOMOTION, NATIONAL RAILWAY MUSEUM AT SHILDON	Durham	Eng
DUNHAM MASSEY HALL (NT)	Cheshire	Eng	LOTHERTON HALL	Yorkshire (W)	Eng
EAST LOTHIAN COUNCIL MUSEUMS SERVICE	Lothian Reg	S	LOUTH MUSEUM	Lincolnshire	Eng
EASTNOR CASTLE	Herefordshire	Eng	LUDLOW MUS. RESOURCE CENTRE	Shropshire	Eng
EREWASH MUSEUM	Derbyshire	Eng	LUTON MUSEUM SERVICE	Bedfordshire	Eng
FALKIRK MUSEUMS	Central Region	S	LYDIARD HOUSE	Wiltshire	Eng
FERMANAGH COUNTY MUSEUM	Fermanagh	NI	LYNN MUSEUM	Norfolk	Eng
FIFE FOLK MUSEUM	Fife	S	McMANUS GALLERIES & MUSEUM	Tayside Reg	S
FINCHCOCKS LIVING MUS. OF MUSIC	Kent	Eng	MAIDSTONE MUSEUM & BENTLIF ART GALLERY	Kent	Eng
GAINSBOROUGH OLD HALL	Lincolnshire	Eng	MANCHESTER CITY ART GALLERY	Manchester	Eng
GAIRLOCH HERITAGE MUSEUM	Highland Reg	S	MANOR FARM COUNTRY PARK	Hampshire	Eng
GALWAY CITY MUSEUM	Galway	Ei	MANOR HOUSE MUSEUM	Suffolk	Eng
GLAMIS CASTLE	Tayside Reg	S	MANX NATIONAL HERITAGE	Isle of Man	Is
GLASGOW CITY COUNCIL	Strathcly Reg	S	MARITIME MUSEUM	Kent	Eng
GRANTHAM MUSEUM	Lincolnshire	Eng	MARKET LAVINGTON VILLAGE MUS.	Wiltshire	Eng
GROSVENOR MUSEUM	Cheshire	Eng	MECHANICAL MUSIC MUSEUM & BYGONES	Suffolk	Eng
GLOUCESTER CITY MUSEUM & ART GALLERY	Gloucs	Eng	MERSEYSIDE MARITIME MUSEUM	Merseyside	Eng
GLOUCESTER FOLK MUSEUM	Gloucs	Eng	MILLGATE MUSEUM	Notts	Eng
HALLIWELL'S HOUSE MUSEUM & ROBSON GALLERY	Borders Reg	S	MILTON'S COTTAGE	Bucks	Eng
HAM HOUSE (NT)	Surrey	Eng	MONAGHAN COUNTY MUSEUM	Monaghan	Ei
HASLEMERE EDUCATIONAL MUS.	Surrey	Eng	MONTROSE MUS. & ART GALL.	Tayside Reg	S
HAVANT MUSEUM	Hampshire	Eng	MOYSE'S HALL	Suffolk	Eng
HELSTON FOLK MUSEUM	Cornwall	Eng	MUSEUM IN DOCKLANDS	London (Gr)	Eng
HEREFORD MUS. & ART GALLERY	Herefordshire	Eng	MUSEUM OF GARDEN HISTORY	London (Gr)	Eng
HERSTMONCEUX CASTLE	Sussex (E)	Eng	MUSEUM OF ISLAY LIFE	Strath Reg	S
HEVER CASTLE	Kent	Eng	MUSEUM OF KENT LIFE	Kent	Eng
HIGHLAND FOLK MUSEUM	Highland Reg	S	MUSEUM OF LINCOLNSHIRE LIFE	Lincolnshire	Eng
HILL OF TARVIT MANSION HOUSE (NTS)	Fife	S	MUSEUM OF LONDON	London (Gr)	Eng
HILL TOP (NT)	Cumbria	Eng	MUSEUM OF SCIENCE & INDUSTRY	Manchester	Eng
HITCHIN MUSEUM & ART GALLERY	Hertfordshire	Eng	MUS. OF SCOTTISH LIGHTHOUSES	Grampian Reg	S
HORNIMAN MUSEUM AND GARDENS	London (Gr)	Eng	MUSEUM OF TECHNOLOGY	Leicestershire	Eng
HUGHENDEN MANOR (NT)	Bucks	Eng	MUS. OF THE HISTORY OF SCIENCE	Oxfordshire	Eng
INVERNESS MUS. & ART GALLERY	Highland Reg	S	MUSEUM OF THE KILKENNY ARCHAEOLOGY SOCIETY	Kilkenny	Ei
IPSWICH BOROUGH COUNCIL MUSEUM & GALLERIES	Suffolk	Eng	MUSEUM OF VICTORIAN SCIENCE	Yorkshire (N)	Eng
IRONBRIDGE GORGE MUSEUM TRUST	Shropshire	Eng	MUSEUM OF WELSH LIFE	Glamorgan (S)	W
ISLE OF ARRAN HERITAGE MUSEUM	Strathcl Reg	S	NATIONAL BURNS MEMORIAL TOWER	Strath Mus	S
JERSEY HERITAGE TRUST	Jersey	Is	NATIONAL MARITIME MUSEUM	London (Gr)	Eng
JEWRY WALL MUSEUM	Leicestershire	Eng	NATIONAL MUSEUM OF IRELAND	Dublin	Ei
KELLIE CASTLE (NTS)	Fife	S	NATIONAL MUSEUM OF IRELAND (Irish Folklife Division)	Mayo	Ei
KENWOOD (EH)	London (Gr)	Eng			
KILTIMAGH MUSEUM	Mayo	Ei			
KINGSWOOD HERITAGE MUSEUM	Bristol	Eng			

MUSEUMS

NAT. MUS. OF SCOTLAND (NMS) (ROYAL MUSEUM OF SCOTLAND)	Lothian Reg	S	SOC. OF ANTIQUARIES OF NEWCASTLE UPON TYNE	Tyne & Wear	Eng
NATIONAL SPACE CENTRE	Leicestershire	Eng	SOMERSET COUNTY MUS. SERVICE	Somerset	Eng
NAT. TRUST FOR SCOTLAND (NTS) (NTS North East Region)	Grampian Reg	S	SPALDING GENTLEMEN'S SOCIETY	Lincolnshire	Eng
NEWARKE HOUSES MUSEUM	Leicestershire	Eng	STAMFORD MUSEUM	Lincolnshire	Eng
NEWSTEAD ABBEY	Notts	Eng	STAPEHILL ABBEY	Dorset	Eng
NOREVIEW FOLK AND HERITAGE MUSEUM	Kilkenny	Ei	STRANRAER MUSEUM	Dumf & Gall	S
NORTHAMPTON MUS. & ART GALL.	Northants	Eng	SULGRAVE MANOR	Northants	Eng
NORTH DOWN HERITAGE CENTRE	Down	NI	SUTTON MUSEUM AND HERITAGE SERVICES	London (Gr)	Eng
NORTH LINCOLNSHIRE MUSEUMS SERVICE	Lincolnshire	Eng	TAMWORTH CASTLE MUSEUM	Staffordshire	Eng
NORTH SOMERSET MUSEUM	Somerset	Eng	TIMEBALL TOWER MUSEUM	Kent	Eng
NORTON PRIORY MUSEUM	Cheshire	Eng	TOLSEY MUSEUM	Oxfordshire	Eng
NORWICH CASTLE MUSEUM	Norfolk	Eng	TOPSHAM MUSEUM	Devon	Eng
NOSTELL PRIORY (NT)	Yorkshire (W)	Eng	TORQUAY MUSEUM	Devon	Eng
NUFFIELD PLACE	Oxfordshire	Eng	TOTNES MUSEUM	Devon	Eng
OXFORDSHIRE MUSEUM STORE	Oxfordshire	Eng	TOUCHSTONES ROCHDALE	Lancashire	Eng
PENLEE HOUSE GALLERY & MUS.	Cornwall	Eng	TOWNELEY HALL ART GALL. & MUS.	Lancashire	Eng
PERTH MUSEUM & ART GALLERY	Tayside Reg	S	TREDEGAR HOUSE	Glamorgan (S)	W
PETERBOROUGH MUS. & ART GALL.	Cambs	Eng	TUNBRIDGE WELLS MUSEUM AND ART GALLERY	Kent	Eng
PICKFORD'S HOUSE MUSEUM	Derbyshire	Eng	TWEEDDALE MUSEUM	Borders Reg	S
PITT RIVERS MUSEUM	Oxfordshire	Eng	TYMPERLEYS CLOCK MUSEUM	Essex	Eng
POOLE MUSEUM SERVICE / SCAPLAN'S COURT MUSEUM	Dorset	Eng	ULSTER AMERICAN FOLK PARK	Tyrone	NI
PORTLAND BASIN MUSEUM	Lancashire	Eng	ULSTER FOLK AND TRANSPORT MUS.	Down	NI
PORTSMOUTH MUSEUMS & RECORDS SERVICE	Hampshire	Eng	ULSTER MUSEUM	Antr & Belfast	NI
PORT SUNLIGHT VILLAGE TRUST	Cheshire	Eng	UNIVERSITY OF ST ANDREWS (MUSEUM COLLECTIONS)	Fife	S
POTTERIES MUS. & ART GALLERY	Staffordshire	Eng	VESTRY HOUSE MUSEUM	London (Gr)	Eng
POWIS CASTLE (NT)	Powys	W	VICTORIA AND ALBERT MUSEUM	London (Gr)	Eng
PRESTON MANOR	Sussex (E)	Eng	VICTORIA JUBILEE MUSEUM	Yorkshire (S)	Eng
PRIEST'S HOUSE MUSEUM	Dorset	Eng	WADDESDON (NT)	Bucks	Eng
RANGER'S HOUSE (EH)	London (Gr)	Eng	WAKEFIELD MUSEUM	Yorkshire (W)	Eng
READING MUSEUM SERVICE	Berkshire	Eng	WALLACE COLLECTION	London (Gr)	Eng
ROCHESTER GUILDHALL MUSEUM	Kent	Eng	WARRINGTON MUS. & ART GALL.	Cheshire	Eng
ROSCOMMON COUNTY MUSEUM	Roscommon	Ei	WARWICKSHIRE MUSEUM	Warwickshire	Eng
ROTUNDA MUSEUM	Yorkshire (N)	Eng	WEDNESBURY MUS. & ART GALL.	West Midlands	Eng
ROWALLANE HOUSE (NT)	Down	NI	WELWYN HATFIELD MUS.SERVICE	Hertfordshire	Eng
ROYAL AIR FORCE MUSEUM	London (Gr)	Eng	WESTGATE MUSEUM	Hampshire	Eng
ROYAL ALBERT MEMORIAL MUS.	Devon	Eng	WESTON PARK	Staffordshire	Eng
RURAL LIFE CENTRE	Surrey	Eng	WHITBY MUSEUM	Yorkshire (N)	Eng
RUTLAND COUNTY MUSEUM	Rutland	Eng	WHITEHALL CHEAM	London (Gr)	Eng
RYEDAILE FOLK MUSEUM	Yorkshire (N)	Eng	WIGHTWICH MANOR (NT)	W. Midlands	Eng
SADDLEWORTH MUS. & ART GALL.	Lancashire	Eng	WILTSHIRE HERITAGE MUSEUM	Wiltshire	Eng
ST. IVES MUSEUM	Cornwall	Eng	WIMBLEDON MUSEUM OF LOCAL HISTORY	London (Gr)	Eng
SALISBURY AND S. WILTSHIRE MUS.	Wiltshire	Eng	WINCHESTER MUSEUMS SERVICE	Hampshire	Eng
SHELL MUSEUM	Norfolk	Eng	WORCESTER PORCELAIN MUSEUM	Worcestershire	Eng
SHETLAND MUSEUM	Shetland Is	S	WORCESTERSHIRE COUNTY MUS.	Worcestershire	Eng
SHROPSHIRE COUNTY COUNCIL MUS. SERVICE	Shropshire	Eng	WORLD MUSEUM LIVERPOOL	Merseyside	Eng
SIR JOHN SOANE'S MUSEUM	London (Gr)	Eng	WREST PARK (EH)	Bedfordshire	Eng
			YORK CASTLE MUSEUM	Yorkshire (N)	Eng

INDEX OF DIAL MAKERS

Showing the museums in which details can be found

Eng - England; Ei - Eire / Republic of Ireland; Is - Islands; NI - Northern Ireland;
S - Scotland; W - Wales

ALLEN Elias	Ashwell Village Museum, Ashwell, Hertfordshire	Eng		Wallace Collection Manchester Square, London	Eng
	Clockmakers' Museum, Aldermanbury, London	Eng		World Museum Liverpool Liverpool, Merseyside	Eng
ALLEN John	Maidstone Mus. & Bentlif Art Gall. Maidstone, Kent	Eng	CADOT (Paris)	World Museum Liverpool Liverpool, Merseyside	Eng
ALMENT (Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	CALCRAFT (Liverpool)	Poole Museum Services, (Scaplen's Court.) Poole, Dorset	Eng
BAINBRIDGE Arthur	Portsmouth Museums & Record Service, Portsmouth, Hants	Eng	CAWLEY Robt. (Chester, 1738)	Grosvenor Museum Chester, Cheshire	Eng
BARRETT C. (44 Fleet St., London.)	Welwyn Hatfield Mus. Service Hatfield, Hertfordshire	Eng	CHESNER Salamon (Bla?)	Bridewell Museum Norwich, Norfolk	Eng
BAUM J. & Co. (Birmingham)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	CHRISTIAN, Brothers (Dundalk)	Dundalk County Museum Dundalk, Co. Louth	Ei
BEDFORD Hilkieah	University of St Andrews (Museum Collections) St Andrews, Fife	S	CLARK Jacobus (Dundee)	World Museum Liverpool Liverpool, Merseyside	Eng
BELL Robert	Armagh County Museum Armagh, Co. Armagh	NI	CLARKE Edward (Lr. Sackville St., Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
BENNETT J.	Potteries Museum & Art Gallery Hanley, Staffordshire	Eng	COLE Benjamin (London)	World Museum Liverpool Liverpool, Merseyside	Eng
BENNETT John (Crown Court, Soho, Lon.)	Powis Castle (NT) Welshpool, Powys	W	COLLINS Pat	National Museum of Ireland (Irish Folklife Division) Castlebar, Co. Mayo	Ei
BERINGER David	Maidstone Mus. & Bentlif Art Gall. Maidstone, Kent	Eng	COSBY (Wappenham)	Northampton Mus. & Art Gall. Northampton, Northants	Eng
	World Museum Liverpool Liverpool, Merseyside	Eng	COWN D.	Manx National Heritage Douglas, Isle of Man	Is
BLADES T.	Millgate Museum Newark, Nottinghamshire	Eng	CULPEPER	Salisbury & South Wiltshire Mus. Salisbury, Wiltshire	Eng
BLOOD Charles (Dieppe, France)	Manchester City Art Gallery Manchester, Manchester (G)	Eng	DAVIES Edward (Aberystwyth)	Ceredigion Museum Aberystwyth, Ceredigion	W
	Royal Albert Memorial Museum Exeter, Devon	Eng	DAVIS John (in Blibor)	Museum of Lincolnshire Life Lincoln, Lincolnshire	Eng
BONAR John (possible maker of dial) (of Ayr, 1620)	Dick Institute Museum & Art Gall. Kilmarnock, East Ayrshire	S	DAWSON Rev Thomas	National Museum of Ireland Dublin 7, Co. Dublin	Ei
	North Down Heritage Centre Bangor, Co. Down	NI	DEIGNAN Captain O.M.	Birr Scientific & Heritage Centre Birr, Co. Offaly	Ei
BOWYER Wm.	Clockmakers' Museum Aldermanbury, London	Eng	DENT (London)	World Museum Liverpool Liverpool, Merseyside	Eng
BOYLE John	Dundalk County Museum Dundalk, Co. Louth	Ei	DIXEY G. & C. W. (London)	Althorp Northampton, Northants	Eng
BREW William	Down County Museum Downpatrick, Co. Down	NI	DOLLAND (London)	Bicton Park & Botanical Gdns East Budleigh, Devon	Eng
BROOKBRAE LTD.	Donington le Heath Manor House Museum Donington le Heath, Leics	Eng	DONALDUS Jo	Royal Albert Memorial Mus, Exeter, Devon	Eng
	Pickford's House Museum Derby, Derbyshire	Eng	DUFFY Ja.	Perth Museum & Art Gallery Perth, Tayside	S
	Whitehall Cheam Cheam, Sutton, London	Eng	DURRAD W.	Museum of Technology Leicester, Leicestershire	Eng
BURTON Gwil	Somerset County Museums Service Taunton, Somerset	Eng	ESSEX & Co. (London)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
BUTTERFIELD (à Paris)	National Museum of Ireland Dublin 7, Co. Dublin	Ei			

MAKERS

EVANS John (Penygraig)	Ceredigion Museum Aberystwyth, Ceredigion	W	JACKSON John	Arbeia Roman Fort & Mus. S. Shields, Tyne and Wear	Eng
EVESHAM Epiphanius	Hereford Mus. & Art Gall. Hereford, Herefordshire	Eng	JENNINGS John	Ulster Folk & Transport Mus. Holywood, Co. Down	NI
FARRELL James (Sculptor, Longford)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	JONES Ben	Blickling Hall (NT) Blickling, Norfolk	Eng
FAWCETT Jno. (Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	KARNER Conrad (Nurnburg)	Bridewell Museum Norwich, Norfolk	Eng
FINERAN Patt	National Museum of Ireland Dublin 7, Co. Dublin	Ei	KARNER Melcher	Ashmolean Museum Oxford, Oxfordshire	Eng
FINNEY Jos.	Warrington Mus. & Art Gall. Warrington, Cheshire	Eng	KELLY D.	Armagh County Museum Armagh, Co. Armagh	NI
FITZGERALD Michael	Limerick City Museum Limerick City, Co. Limerick	Ei	KENNEDY H.	Armagh County Museum Armagh, Co. Armagh	NI
FLEMING I.	National Museum of Ireland Dublin 7, Co. Dublin	Ei	KERRUISH William	Manx National Heritage Douglas, Isle of Man	Is
FULTON John	Glasgow City Council Glasgow, Strathclyde	S	KEWLEY John	Manx National Heritage Douglas, Isle of Man	Is
GIBBONS M.	National Museum of Ireland Dublin 7, Co. Dublin	Ei	KOCH Johannes (replica dial of)	Museum of Victorian Science Whitby, Yorkshire (N)	Eng
GRASSL Lorenz	Manchester City Art Gallery Manchester, Manchester (G)	Eng	KOCH (Vienna)	World Museum Liverpool Liverpool, Merseyside	Eng
GREGORY James	University of St Andrews St Andrews, Fife	S	KYLE A. R. (1781)	Ballemoney Museum Ballemoney, Co. Antrim	NI
GRIBELIN (à Blois)	Ranger's House (EH) Blackheath, London	Eng	LABICHE	World Museum Liverpool Liverpool, Merseyside	Eng
GRIFFIN William (Urraclay, Co. Galway)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	LACHAN (Lt. of 17 th Foot Regiment)	Newarke Houses Museum Leicester, Leicestershire	Eng
GUERIN	Jersey Heritage Trust St Helier, Jersey	Is	LAMBERT le Pere	Manchester City Art Gallery Manchester, Manchester (G)	Eng
HABERMEL Erasmus (Prague)	World Museum Liverpool Liverpool, Merseyside	Eng	LEFEBURE (Paris)	World Museum Liverpool Liverpool, Merseyside	Eng
HANBURY-TENISON (Pontypool, Wales)	Broughton Castle Banbury, Oxfordshire	Eng	LONG Joseph (of Little Tower Street)	Museum in Docklands West India Quay, London	Eng
HANCOCK S. H. W.	McManus Galleries & Museum Dundee, Tayside	S	LORIMER Sir Robert	Kellie Castle Fife	S
HANNON James	National Museum of Ireland Dublin 7, Co. Dublin	Ei	LOWSLEY	Reading Museum Service Berkshire	Eng
HARBER David	Commandery Worcester, Worcestershire	Eng	LYNCH & SON (Dublin)	The Argory (NT) Dungannon, Co. Armagh	NI
HARRIS Thos. and Son (London)	National Museum of Ireland Dublin 7, Co. Dublin	Ei		National Museum of Ireland Dublin 7, Co. Dublin	Ei
HAWKSWORTH John	Victoria Jubilee Museum Barnsley, South Yorkshire	Eng	MACQUART	Manchester City Art Gallery Manchester, Manchester (G)	Eng
HAWTING J. (Oxford)	Buscot House (NT) Faringdon, Oxfordshire	Eng	McHUGH Tobias	National Museum of Ireland Dublin 7, Co. Dublin	Ei
HAYES John	Limerick City Museum Limerick City, Co. Limerick	Ei	McNALLY J.	Down County Museum Downpatrick, Co. Down	NI
HAYES Walter (Moorefields, Londini)	Reading Museum Service Reading, Berkshire	Eng	McNALY Patt	Monaghan County Museum Monaghan, Co. Monaghan	Ei
HEATH Thomas (replica dial of)	Museum of Victorian Science Whitby, N. Yorkshire	Eng	MAGAURAN John & Co (Corglass)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
HEYRICKE Samuel	Leicestershire County Council Mus. Barrow-upon-Soar, Leics	Eng	MANN Tho	World Museum Liverpool Liverpool, Merseyside	Eng
HINDLEY Henry	York Castle Museum York, Yorkshire (N)	Eng	MANN Thos	Kirkleatham Museum Redcar, North Yorkshire	Eng
HOLMES J.	Preston Manor Brighton, East Sussex	Eng	MARTIN Benjamin (London)	Bridewell Museum Norwich, Norfolk	Eng
HUGHES John	National Museum of Ireland Dublin 7, Co. Dublin	Ei	MARTIN D. (Sculptor)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
J. M. (Moneycannon)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	MASON (Dublin)	Armagh County Museum Armagh, Co. Armagh	NI

	Down County Museum Downpatrick, Co. Down	NI		Kiltimagh Museum Kiltimagh, Co. Mayo	Ei
MASON T. (Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei		Merseyside Maritime Mus Liverpool, Merseyside	Eng
MAXWELL Joseph (and by J C, 1855)	Ulster Folk & Transport Museum Holywood, Co. Down	NI		Preston Manor Brighton, East Sussex	Eng
MELLING B. & Co., (Opticians, 39 South Castle St., Liverpool)	National Museum of Ireland Dublin 7, Co. Dublin	Ei		World Museum Liverpool, Liverpool, Merseyside	Eng
MELVILLE Richard	Armagh County Museum Armagh, Co. Armagh	NI	PORTER	Buckinghamshire County Mus. Aylesbury, Buckinghamshire	Eng
	Dunblane Museum Dunblane, Perthshire	S	PORTER S.	Cyfarthfa Castle Mus. & Art Gall. Merthyr Tydfil, Mid Glamorgan W	
Richard Melville working as Richard Melvin	Cheltenham Art Gallery & Museum Cheltenham, Gloucestershire	Eng	PROCTOR	Armagh County Museum Armagh, Co. Armagh	NI
	City Museum Canterbury, Kent	Eng		World Museum Liverpool Liverpool, Merseyside	Eng
	Down County Museum Downpatrick, Co. Down	NI	PROTOR	Reading Museum Service Berkshire	Eng
MIGDAL Joanna	Haslemere Educational Museum Haslemere, Surrey	Eng	R. H. (Possibly)	Salisbury & South Wiltshire Mus. Salisbury, Wiltshire	Eng
MILLER Lienhart	Ashmolean Museum Oxford, Oxfordshire	Eng	RAYMENT	Stamford Museum Stamford, Lincolnshire	Eng
	World Museum Liverpool Liverpool, Merseyside	Eng	REIMANN P. (or Lesel workshops)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
MILNE Oswald Partridge	Nuffield House Henley-on-Thames, Oxon	Eng	RENARD	World Museum Liverpool Liverpool, Merseyside	Eng
MURCH Jerom.	Allhallows Museum Honiton, Devon	Eng	RICHARDSON John Wigham	Discovery Museum Newcastle upon Tyne, Tyne and Wear	Eng
NAIRNE E. (London)	Clockmakers' Museum Aldermanbury, London	Eng	RIENMAN Hieronymus	City Museum Canterbury, Kent	Eng
	Luton Museum Service Luton, Bedfordshire	Eng	ROBERT Henry (A Paris)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
NEARY Patt	Dundalk County Museum Dundalk, Co. Louth	Ei	ROBSON Fred & Co. (Newcastle upon Tyne)	Discovery Museum Newcastle upon Tyne, Tyne and Wear	Eng
NEGRETTI & ZAMBRA	Montrose Museum & Art Gall Montrose, Angus, Tayside	S	ROSS Hugh	Aberdeen Maritime Museum Aberdeen, Aberdeenshire	S
NELSON Oliver (Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	ROWLEY John	Blenheim Palace Woodstock, Oxfordshire	Eng
NEWTON E. T. (St. Day, Cornwall)	National Museum of Ireland Dublin 7, Co. Dublin	Ei		Gloucester City Mus. & Art Gall. Gloucester, Gloucestershire	Eng
NEWTON Sir Isaac (plaster copy of dial)	Grantham Museum Grantham, Lincolnshire	Eng	RUGENDAS (Augsburg)	World Museum Liverpool Liverpool, Merseyside	Eng
NICHOLSON Willm.	Armagh County Museum Armagh, Co. Armagh	NI	RUSSELL, ALEXANDER & Co.	Kirkcaldy Mus. & Art Gall. Kirkcaldy, Fife	S
O'CONNELL Dan (Teacher of Rathmines, Nat. School)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	S. B. or S. R. (Possibly)	Salisbury & South Wiltshire Mus. Salisbury, Wiltshire	Eng
PARKER George (Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei	S. D.	Cannon Hall Museum Barnsley, South Yorkshire	Eng
PEARSON PAGE Co.	Brewhouse Yard Museum Nottingham, Nottinghamshire	Eng	SAUNDERS (Dublin)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
	World Museum Liverpool Liverpool, Merseyside	Eng	SAVOI Gio. F. (Firenze)	World Museum Liverpool Liverpool, Merseyside	Eng
PEARSON Rev. William	Leicestershire Co. Council Mus Barrow-upon-Soar, Leics	Eng	SCHISSLER Christoph (Augsburg)	Wallace Collection Manchester Square, London	Eng
	Newarke Houses Museum Leicester, Leicestershire	Eng	SCHRETTEGER Johan (Augsburg)	Ashmolean Museum Oxford, Oxfordshire	Eng
PERRY T.	Armagh County Museum Armagh, Co. Armagh	NI	SCOTT Benjamin	Cliveden (NT) Taplow, Buckinghamshire	Eng
PILKINGTON AND GIBBS Ltd.	Baily Lighthouse Museum Howth Head, Co. Dublin	Ei		Ham House (NT) Ham, Surrey / London (Gr)	Eng

MAKERS

SENECAL Jacques (Dieppe)	Somerset County Mus. Service Taunton, Somerset	Eng	WALKER Samuel	Clifton Park Museum Rotherham, South Yorkshire	Eng
SEPHTON Henry	Croxtheth Hall & Country Park Liverpool, Merseyside	Eng	WALL Dr. John (Porcelain factory owner)	Worcester Porcelain Museum Worcester, Worcestershire	Eng
SISSON J.	Burghley House Stamford, Lincolnshire	Eng	WALL Thomas	Derryglad Folk Museum Curraghboy, Athlone, Co. Roscommon	Ei
SLACK Colin (Replica of Wynne dial)	Wrest Park Silsoe, Bedfordshire	Eng	WALLIS James	St Ives Museum St Ives, Cornwall	Eng
SMITH (of Andover, Hampshire)	Havant Museum Havant, Hampshire	Eng	WALSH James (Sculptor)	National Museum of Ireland (Irish Folklife Division) Castlebar Co. Mayo	Ei
SMYTH Edward (of Ballyrolly)	Down County Museum Downpatrick, Co. Down	NI	WALSH James	Ulster Folk & Transport Mus. Holywood, Co. Down	NI
SPEARS & Co. (28 College Green, Dublin)	Ballymore Historic Features Camolin, Co. Wexford	Ei	WALTON (Charing Cross, London)	Althorp Northampton, Northants	Eng
SPELMAN Pat^k	National Museum of Ireland Dublin 7, Co. Dublin	Ei	WASHINGTON Robert	Althorp Northampton, Northants	Eng
STOCKERT A. (Bavaria)	World Museum Liverpool Liverpool, Merseyside	Eng	WATKINS W. (St. James' Street)	Museum of London London Wall, London	Eng
STOKES Gab. (Dublin)	Havant Museum Havant, Hampshire	Eng	WEBB J. (192 Tottenham Ct. Rd., London)	National Museum of Ireland Dublin 7, Co. Dublin	Ei
STONEHOUSE BRICK AND TILE CO. (Catalogue, "Brick Fireplaces and Sundials")	National Museum of Ireland Dublin 7, Co. Dublin	Ei	WELLBROOKE I. A.	Gainsborough Old Hall Mus. Gainsborough, Lincolnshire	Eng
STRANEY William	Gloucester Folk Museum Gloucester, Gloucestershire	Eng	WESTLAND Alexr.	Brewhouse Yard Museum Nottingham, Nottinghamshire	Eng
SUTTON Henricus/Henry	Down County Museum Downpatrick, Co. Down	NI	WHITEHURST John and Son (Derby)	Derby Museum & Art Gallery Derby, Derbyshire	Eng
	Ashmolean Museum Oxford, Oxfordshire	Eng	WHITING (Northampton)	Northampton Mus & Art Gall. Northampton, Northants.	Eng
	Gloucester Folk Museum Gloucester, Gloucestershire	Eng	WILKS Tho.	Museum of Lincolnshire Life Lincoln, Lincolnshire	Eng
SWIFT Tony (replica dial maker)	Museum of Victorian Science Whitby, N. Yorkshire	Eng	WILLIBRAND (Augsburg)	World Museum Liverpool Liverpool, Merseyside	Eng
SWYNNERTON C.	Manx National Heritage Douglas, Isle of Man	Is	WILSON Robert	Donegal County Museum Letterkenny, Co. Donegal	Ei
SYMMES Isaac	Clockmakers' Museum Aldermanbury, London (Gr)	Eng	WOODS Cuthbert E.	Merseyside Maritime Museum Liverpool, Merseyside	Eng
TASSEL (France)	Bowes Museum, Barnard Castle, Co. Durham	Eng	WORTHINGTON & ALLEN (Piccadilly)	Grantham Museum Grantham, Lincolnshire	Eng
THOMPSON Anton	National Museum of Ireland Dublin 7, Co. Dublin	Ei	WRIGHT D.	Wednesbury Mus. & Art Gall. Wednesbury, West Midlands	Eng
THRISTLE Joseph	Somerset County Mus Service Taunton, Somerset	Eng	WRIGHT Tho.	Lacock Abbey (NT) Chippenham, Wiltshire	Eng
TROWBRIDGE Jack	Penlee House Gall & Mus Penzance, Cornwall	Eng	WYNNE Henry (replica) (Original horizontal dial in storage)	English Heritage Wrest Park, Bedfordshire	Eng
VOGLER Andreas (Augsburg)	Abbey House Museum Leeds, West Yorkshire	Eng		Powis Castle (NT) Welshpool, Powys	W
(Possible 19 th century copy of dial)	Discovery Museum Newcastle upon Tyne, Tyne and Wear	Eng	X. (Possibly)	Salisbury & South Wiltshire Mus. Salisbury, Wiltshire	Eng
	Winchester Museums Service Winchester, Hampshire	Eng	YEATES and Son (Dublin)	Baily Lighthouse Museum Howth Head, Co. Dublin	Ei
W. M.	Birr Scientific & Heritage Centre Birr, Co. Offaly	Ei			
WALKER James	Aberdeen Maritime Museum Aberdeen, Aberdeenshire	S			

INDEX OF SPECIFIC DIAL TYPES,

with Location and County Area or Region.

Eng - England; Ei - Eire / Republic of Ireland; Is - Islands; NI - Northern Ireland;
S - Scotland; W - Wales

Specific sundial types are listed below as broadly described by the reporting museum. A more detailed definition may be found in some cases upon further inspection of the main body of the survey. Sundials made from some unusual materials are also listed here as are certain other devices. Where the survey return form has not indicated a particular sundial type, then it is not included here.

ANALEMATIC					
Analematic dial	HERSTMONCEUX CASTLE Herstmonceux, East Sussex	Eng	Ceramic sundial	WAKEFIELD MUSEUM Wakefield, West Yorkshire	Eng
Analematic / horizontal dial	<i>Ditto</i>		Ceramic, circular horiz dial	WORCESTER PORCELAIN MUS. Worcester, Worcestershire	Eng
Analematic sundial	HORNIMAN MUS. AND GDN. Forest Hill, London	Eng	CHALK SUNDIALS		
Analematic (human gn)	BLLENHEIM PALACE Woodstock, Oxfordshire	Eng	Chalk sundial	DOVER CASTLE MUS. (EH) Dover, Kent	Eng
Analematic (human gn)	BLICKLING HALL (NT) Blickling, Norfolk	Eng	COMPASS		
Analematic (human gn)	COOLE PARK Gort, Co. Galway	Ei	Sundial with compass	GLASGOW CITY COUNCIL Glasgow, Glasgow	S
Analematic (human gn)	DRUM CASTLE (NTS) Banchory, Aberdeenshire	S	Sundial type compass	WARRINGTON MUS. & ART GALLERY Warrington, Cheshire	Eng
Analematic (human gn)	KENWOOD (EH) Hampstead Lane, London	Eng	Compass sundial	HELSTON FOLK MUSEUM Helston, Cornwall	Eng
Analematic (human gn)	RURAL LIFE CENTRE Tilford, Surrey	Eng	Sundial & compass combined	PRIEST'S HOUSE MUSEUM Wimborne, Dorset	Eng
Analematic (human gn)	RYEDALE FOLK MUSEUM Hutton le Hole, North Yorkshire	Eng	Compass (part of sundial?)	GLOUCESTER FOLK MUS. Gloucester, Gloucestershire	Eng
ARMILLARY			Sundial & compass (portable)	<i>Ditto</i>	
Miniature armillary sphere	AMERICAN MUSEUM Bath, Somerset	Eng	Sundial + compass (German)	WINCHESTER MUS. SERVICE Winchester, Hampshire	Eng
Armillary sundial	COMMANDERY Worcester, Worcestershire	Eng	Sundial with compass	<i>Ditto</i>	
Armillary sphere dial	HERSTMONCEUX CASTLE Herstmonceux, East Sussex	Eng	Sundial + compass (portable)	NEWARKE HOUSES MUS. Leicester, Leicestershire	Eng
Armillary sphere sundial	IPSWICH BOROUGH Co MUS. & GALL. Ipswich, Suffolk	Eng	Compass sundials (wood)	MUSEUM OF LONDON London Wall, London	Eng
Armillary sphere sundial	KELLIE CASTLE (NTS) Pittenweem, Fife	S	Compass sundial (ivory)	MUSEUM OF LONDON London Wall, London	Eng
Armillary sphere (copy)	MUS. OF VICTORIAN SCIENCE Whitby, North Yorkshire	Eng	Sundial & compass (+ watch)	RANGER'S HOUSE (EH) Blackheath, London	Eng
AZIMUTH			Sundial with compass (3)	WALLACE COLLECTION Manchester Square, London	Eng
Pocket sundial (Charles (2 nd) Bloud)	ROYAL ALBERT MEMORIAL MUSEUM Exeter, Devon	Eng	Sundial with compass (2)	MERSEYSIDE MARITIME MUS. Liverpool, Merseyside	Eng
CARVED BONE SUNDIALS			Sundial with compass	LYNN MUSEUM King's Lynn, Norfolk	Eng
Flat carved bone sundial	PETERBOROUGH MUS. & ART GALLERY Peterborough, Cambs.	Eng	Sundial compass (Cu alloy)	NORWICH CASTLE MUSEUM Norwich, Norfolk	Eng
CEILING SUNDIALS			Sundial + compass (Chinese, wooden)	PITT RIVERS MUSEUM Oxford, Oxfordshire	Eng
Ceiling sundial	HORNIMAN MUS. AND GDNS. Forest Hill, London	Eng	Compass-card dial (portable)	WHITBY MUSEUM Whitby, North Yorkshire	Eng
CERAMIC SUNDIALS			CROSS		
Ceramic sundial	DOVER CASTLE MUS. (EH) Dover, Kent	Eng	Portable cross sundial	BOWES MUSEUM Barnard Castle, Co. Durham	Eng
			Wooden cross sundial	COLCHESTER MUSEUMS Colchester, Essex	Eng

DIAL TYPES

Cruciform equinoc. univ. dial	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
CUBE		
Cube dial	POWIS CASTLE (NT) Welshpool, Powys	W
Wooden cubical sundial	MAIDSTONE MUSEUM & BENTLIF ART GALLERY Maidstone, Kent	Eng
Stone cube sundial	GAINSBOROUGH OLD HALL M. Gainsborough, Lincolnshire	Eng
Paper/wood, univ. cubic dial	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
Multiple cube Market Cross sundial	HERSTMONCEUX CASTLE Herstmonceux, East Sussex	Eng
Stone block multiple sundial	SALISBURY AND SOUTH WILTSHIRE MUSEUM Salisbury, Wiltshire	Eng
Stone cube sundial	CLIFTON PARK MUSEUM Rotherham, South Yorkshire	Eng
CYLINDER		
Cylinder sundial	CITY MUSEUM Canterbury, Kent	Eng
DIPLEIDOSCOPIES		
Dipleidoscope	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
DIPTYCH		
Diptych sundial	CITY MUSEUM Canterbury, Kent	Eng
Diptych sundial (wooden) (4)	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
Diptych dial (bone, bottom leaf only)	ASHMOLEAN MUSEUM Oxford, Oxfordshire	Eng
Diptych sundial (2)	IPSWICH BOROUGH COUNCIL MUSEUMS & GALLERIES Ipswich, Suffolk	Eng
DOUBLE HORIZONTAL		
Double horizontal sundial	CROXTETH HALL Liverpool, Merseyside	Eng
Double horizontal dial (Henry Wynne)	POWIS CASTLE (NT) Welshpool, Powys	W
Double horizontal sundial	UNIVERSITY OF ST ANDREWS (MUSEUM COLLECTIONS) St Andrews, Fife	S
EQUATORIAL		
Equatorial sundial	BIRR SCIENTIFIC AND HERITAGE CENTRE Ireland's Historic Science Centre, Birr, Co. Offaly	Ei
Equatorial sundial	HIGHLAND FOLK MUSEUM Kingussie, Highlands	S
EQUIANGULAR		
Equiangular sundial	HERSTMONCEUX CASTLE Herstmonceux, East Sussex	S
EQUINOCTIAL		
Equinoctial sundial	BAILY LIGHTHOUSE MUSEUM Howth Head, Co. Dublin.	Ei
Equinoctial sundial	GRANTHAM MUSEUM Grantham, Lincolnshire	Eng
Equinoctial sundial (universal)	CLOCKMAKERS' MUSEUM Aldermanbury, London	Eng
Equinoctial sundial (universal)	MUSEUM OF LONDON London Wall, London	Eng

Equinoctial planispheric dial	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
FLOATING SUNDIALS		
Floating sundial	DISCOVERY MUSEUM Newcastle u. Tyne, Tyne/Wear	Eng
GLOBE		
Globe shaped sundial	FALKIRK MUSEUMS Falkirk, Stirlingshire	S
Globe sundial, bronze Atlas	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
HELIOCHRONOMETERS AND SOL HOROMETERS		
Heliochronometer	BAILY LIGHTHOUSE MUSEUM Howth Head, Co. Dublin	Ei
Sol Horometer	KILTIMGH MUSEUM Kiltimagh, Co. Mayo	Ei
Heliochronometer	MERSEYSIDE MARITIME MUS. Liverpool, Merseyside	Eng
Heliochronometer	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
Heliochronometer (Sol Horometer)	PRESTON MANOR Brighton, East Sussex	Eng
IVORY SUNDIALS		
Ivory diptych sundial	BIRR SCIENTIFIC & HERITAGE CENTRE Ireland's Historic Science Centre Birr, Co. Offaly	Ei
Ivory panel (part of sundial)	WINCHESTER MUS. SERVICE Winchester, Hampshire	Eng
Ivory panel (part of diptych dial)	CITY MUSEUM Canterbury, Kent	Eng
Ivory compass sundials	MUSEUM OF LONDON London Wall, London	Eng
Ivory diptych sundial (2)	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
Ivory diptych dial & compass	BRIDEWELL MUSEUM Norwich, Norfolk	Eng
Ivory diptych sundial (with wind vane)	ASHMOLEAN MUSEUM Oxford, Oxfordshire	Eng
Ivory diptych sundial	ASHMOLEAN MUSEUM Oxford, Oxfordshire	Eng
MAGNETIC		
Pocket magnetic sundial	BUCKS COUNTY MUSEUM Aylesbury, Bucks.	Eng
MERIDIAN LINES		
Meridian line	MARITIME MUSEUM Ramsgate, Kent	Eng
Meridian line (Greenwich)	LOUTH (TOWN STREETS) Louth, Lincolnshire	Eng
Meridian line (remnant)	MARKET LAVINGTON VILLAGE MUSEUM Market Lavington, Wiltshire	Eng
Meridian Line	UNIVERSITY OF ST ANDREWS (MUSEUM COLLECTIONS) St Andrews, Fife	S
MINIATURE SUNDIALS		
Miniature sundial (in leather case)	WINCHESTER MUS. SERVICE Winchester, Hampshire	Eng
MULTIPLE		
Multi-facet head sundial	EAST LOTHIAN COUNCIL MUSEUMS SERVICE Haddington, East Lothian	S

Polyhedral type sundial	GLASGOW CITY COUNCIL Glasgow, Glasgow	S	Pocket sundial (universal) (3)	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
Multiple sundial	HAVANT MUSEUM Havant, Hampshire	Eng	Pocket sundial plate	<i>Ditto</i>	
Stone block sundial	PERTH MUS. & ART GALLERY Perth, Tayside	S	Pocket sundial, string gnomon	<i>Ditto</i>	
Stone block multiple dial	<i>Ditto</i>		Pocket	<i>Ditto</i>	
Stone cube multiple dial	SHETLAND MUSEUM Lerwick, Shetland	S	English sundial with magnifier		
NOCTURNALS					
Planispheric nocturnal & Gunter's Quadrant	ASHMOLEAN MUSEUM Oxford, Oxfordshire	Eng	Pocket altitude sundial	<i>Ditto</i>	
Nocturnal	BALLYMONEY MUSEUM Ballymoney, Co. Antrim	NI	Pocket inclining sundial	<i>Ditto</i>	
Gunter's Quadrant	<i>Ditto</i>		Pocket equinoctial sundial	<i>Ditto</i>	
Nocturnal	CRAIGAVON MUSEUM Craigavon, Co. Armagh	NI	Pocket sundial & compass (Chinese, wood)	BRIDEWELL MUSEUM Norwich, Norfolk	Eng
Sun & Moon dial / nocturnal compendium	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng	Pocket sundial + compass	<i>Ditto</i>	
Folding sundial / nocturnal with compass	<i>Ditto</i>		Pocket sundial	NORWICH CASTLE MUSEUM Norwich, Norfolk	Eng
Italian brass nocturnal	<i>Ditto</i>		Sundial (pocket set)	<i>Ditto</i>	
Collapsible brass dial / noct.	<i>Ditto</i>		Pocket sundial & compass	OXFORDSHIRE MUS. STORE Standlake, Oxfordshire	Eng
NOON CANNON SUNDIALS					
Noon cannon sundial	TORQUAY MUSEUM Torquay, Devon	Eng	Pocket sundial (wooden)	<i>Ditto</i>	
PENDANT SUNDIALS					
Pendant sundial	CITY MUSEUM Canterbury, Kent	Eng	Pocket sundial	PERTH MUS. & ART GALL Perth, Tayside	S
Pendant sundial (replica)	JEWRY WALL MUSEUM Leicester, Leicestershire	Eng	Pocket sundial & compass (English, brass)	PITT RIVERS MUSEUM Oxford, Oxfordshire	S
PLASTER CASTS OF SUNDIALS					
Plaster cast (of Newton's sundial)	GRANTHAM MUSEUM Grantham, Lincolnshire	Eng	Pocket sundial (bronze)	SOMERSET COUNTY MUSEUMS SERVICE Taunton, Somerset	Eng
PILLAR					
Pillar altitude sundial (wood)	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng	Pocket sundial (Medieval, boxwood)	<i>Ditto</i>	
POCKET SUNDIALS					
Pocket dial (copy of 1767 dial)	CEREDIGION MUSEUM Aberystwyth, Dyfed Area	W	Pocket sundial (French, ivory cased)	<i>Ditto</i>	
Pocket sundial (1930s)	<i>Ditto</i>		Pocket vertical dial (metal)	POTTERIES MUS. & ART GALL. Hanley, Staffordshire	Eng
Pocket sundial	FALKIRK MUSEUMS Falkirk, Stirlingshire	S	Pocket sundial	DISCOVERY MUSEUM Newcastle u. Tyne, Tyne/Wear	Eng
Pocket sundial (John Rowley)	GLOUCESTER CITY MUSEUM & ART GALLERY Gloucester, Gloucestershire	Eng	Pocket sundial (copy?)	<i>Ditto</i>	
Pocket sundial with compass	HAVANT MUSEUM Havant, Hampshire	Eng	Pocket sundial (2)	SALISBURY AND SOUTH WILTSHIRE MUSEUM Salisbury, Wiltshire	Eng
Pocket sundial	LANCASTER CITY MUSEUM & MARITIME MUS. Lancaster, Lancashire	Eng	Pocket sundial + compass (2)	<i>Ditto</i>	
Pocket sundial (Butterfield, silver)	ROCHESTER GUILDHALL MUS. Rochester, Kent	Eng	POLAR		
Pocket sundial (Georgian, bronze)	TUNBRIDGE WELLS MUS. & ART GALLERY Tunbridge Wells, Kent	Eng	Double polar dial	HORNIMAN MUS. AND GDNS. Forest Hill, London	Eng
Pocket sundial (Victorian, brass and card)	<i>Ditto</i>		PORTABLE SUNDIALS		
Pocket sundial and compass	MERSEYSIDE MARITIME MUS. Liverpool, Merseyside	Eng	Portable sundials	BIRR SCIENTIFIC AND HERITAGE CENTRE Ireland's Historic Science Centre, Birr, Co. Offaly	Ei
			Portable magnetic sundial	CYFARTHFA CASTLE MUSEUM & ART GALLERY Merthyr Tydfil, Glamorgan	W
			Horizontal portable brass dial	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
			Portable English dial (small)	<i>Ditto</i>	
			Portable German universal stone sundial	<i>Ditto</i>	
			Portable sundial (copper alloy)	NORWICH CASTLE MUSEUM Norwich, Norfolk	Eng
			Portable sundial (2 replicas) (Butterfield type)	MUSEUM OF VICTORIAN SCI. Whitby, North Yorkshire	Eng
			RING		
			Ring-dial (2)	READING MUSEUM SERVICE Reading, Berks.	Eng

DIAL TYPES

Ring-dial	WARRINGTON MUSEUM & ART GALLERY Warrington, Cheshire	Eng	Shepherd's sundial (wood, Spanish)	PITT RIVERS MUSEUM Oxford, Oxfordshire	Eng
Ring-dial (portable)	GLOUCESTER CITY MUSEUM & ART GALLERY Gloucester, Gloucestershire	Eng	SLATE SUNDIALS		
Ring-dial (portable)	GLOUCESTER FOLK MUSEUM Gloucester, Gloucestershire	Eng	Slate sundial	ABERDEEN MARITIME MUS. Aberdeen, Aberdeenshire	S
Ring-dial (copper alloy)	WINCHESTER MUS. SERVICE Winchester, Hampshire	Eng	Slate sundials (4)	ARMAGH COUNTY MUSEUM Armagh, Armagh	NI
English altitude ring-dial	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng	Slate sundial	BAILY LIGHTHOUSE MUSEUM Howth Head, Co. Dublin	Ei
Altitude ring-dial (portable)	<i>Ditto</i>		Slate sundial	BIGGAR MUSEUM TRUST Biggar, Lanarkshire	S
Altitude ring-dial	<i>Ditto</i>		Slate sundial	BIRR SCIENTIFIC AND HERITAGE CENTRE Ireland's Historic Science Centre, Birr, Co. Offaly	Ei
Pocket ring-dial	BRIDEWELL MUSEUM Norwich, Norfolk	Eng	Slate sundial	CEREDIGON MUSEUM Aberystwyth, Dyfed Area	W
Ring-dial (2)	CASTLE MUSEUM Nottingham, Nottinghamshire	Eng	Slate sundial	CHELTENHAM ART GALLERY & MUSEUM Cheltenham, Gloucestershire	Eng
Ring-dial (bronze) (2)	ASHMOLEAN MUSEUM Oxford, Oxfordshire	Eng	Slate sundial	CITY MUSEUM Canterbury, Kent	Eng
Equinoctial ring-dial	<i>Ditto</i>		Slate sundial (1727)	DARTMOUTH MUSEUM Dartmouth, Devon	Eng
Ring-dial (bronze)	RUTLAND COUNTY MUSEUM Oakham, Rutland	Eng	Slate sundials (2)	DERRYGLAD FOLK MUS Curraghboy, Athlone, Co. Roscom.	EI
Ring-dial	SALISBURY AND SOUTH WILTSHIRE MUSEUM Salisbury, Wiltshire	Eng	Slate sundial	DICK INSTITUTE MUSEUM & ART GALLERY Kilmarnock, East Ayrshire	S
Ring-dial (6)	WILTSHIRE HERITAGE MUS. Devizes, Wiltshire	Eng	Slate sundials (20)	DONEGAL COUNTY MUSEUM Letterkenny, Co. Donegal	Ei
ROMAN SUNDIALS			Slate sundials (8)	DOWN COUNTY MUSEUM Downpatrick, Co. Down	NI
Roman sundial (replica)	JEWRY WALL MUSEUM Leicester, Leicestershire	Eng	Slate sundials (3)	DUNDALK COUNTY MUSEUM Dundalk, Co. Louth	Ei
Roman marble sundial	SIR JOHN SOANE'S MUSEUM Lincoln's Inn Fields, London	Eng	Slate sundials (2)	FERMANAGH COUNTY MUS. Enniskillen, Co. Fermanagh	NI
Roman sundial (portion)	CHESTERS ROMAN FORT AND MUSEUM (EH) Humshaugh, Northumberland	Eng	Slate sundial	GLASGOW CITY COUNCIL Glasgow, Glasgow	S
SCAPHE (or BOWL)			Slate sundial	HIGHLAND FOLK MUSEUM Kingussie, Highlands	S
Scaphe or bowl sundial	HORNIMAN MUS. & GARDENS Forest Hill, London	Eng	Slate sundial (1766)	JERSEY HERITAGE TRUST St Helier, Jersey, C.I.	Is
Scaphe sundial (Roman)	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng	Slate sundial (174(9)), Slate sundial (The Prince Regent Dial)	<i>Ditto</i> <i>Ditto</i>	
SCRATCH (MASS) DIALS			Slate sundial	LEICS CO COUNCIL MUSEUMS Barrow-upon-Soar, Leics.	Eng
Scratch dial casts (4)	BEDFORD MUSEUM Bedford, Bedfordshire	Eng	Slate sundial (astronomical)	<i>Ditto</i>	
Scratch dial	CARMARTHEN TOWN MUSEUM & GALLERY Carmarthen, Carmarthenshire	W	Slate sundials (2)	LIMERICK CITY MUSEUM Limerick City, Co. Limerick	Ei
Scratch dial on quern stone "Sundial scratched on stone"	<i>Ditto</i> HITCHIN MUS & ART GAL Hitchin, Hertfordshire	Eng	Slate sundial	MAIDSTONE MUSEUM & BENTLIF ART GALLERY Maidstone, Kent	Eng
Two sundials (scratch dials?)	LETCHWORTH MUSEUM & ART GALLERY Letchworth, Hertfordshire	Eng	Slate sundial	MONAGHAN COUNTY MUS. Monaghan, Co. Monaghan	Ei
SHEPHERD'S			Slate sundials (3)	NEWARKE HOUSES MUSEUM Leicester, Leicestershire	Eng
Shepherd's (stick) dial	BRITISH EMPIRE & COMMONWEALTH MUSEUM Bristol, Bristol	Eng			
Shepherd's dial	COLCHESTER MUSEUMS Colchester, Essex	Eng			
Shepherd's sundial	DARTFORD BOROUGH MUSEUM Dartford, Kent	Eng			

Slate sundial (square)	NORTHANTS MUS. & ART GALL. Northampton, Northants.	Eng	Sundial with thermometer	TUNBRIDGE WELLS MUSEUM & ART GALLERY Tunbridge Wells, Kent	Eng
Slate sundial (octagonal)	<i>Ditto</i>				
Slate sundial	NORTH LINCOLNS MUS. SERV. Normanby, Lincolnshire	Eng	SUNSHINE RECORDERS		
Modern slate sundial (2002)	PENLEE HOUSE GAL. & MUS. Penzance, Cornwall	Eng	Sunshine recorder	BUTE MUSEUM Rothesay, Isle of Bute	S
Slate sundial	ROSCOMMON COUNTY MUS. Roscommon, Co. Roscommon	Ei	Although not located at the museum, this sunshine recorder is used by staff from the museum to take sunshine records for the island.		
Slate sundial	SOMERSET COUNTY MUSEUM SERVICE Taunton, Somerset	Eng	Sunshine recorder	LANCASTER CITY MUSEUM & MARITIME MUS. Lancaster, Lancashire	Eng
Slate equinoctial sundial (Sun and Moon)	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng	Sunshine recorder	WIGHTWICH MANOR (NT) Wolverhampton, W. Midlands	Eng
SPHERICAL SUNDIALS			SUN WATCHES		
Stone ball sundial + pedestal	VESTRY HOUSE MUSEUM Walthamstow, London	Eng	Sun watch with compass	ROYAL AIR FORCE MUSEUM Grahame Park Way, London	Eng
STAINED-GLASS			TIME-BALLS		
Stained-glass sundial	WARRINGTON MUSEUM & ART GALLERY Warrington, Cheshire	Eng	Time-ball	TIMEBALL TOWER MUSEUM Deal, Kent	Eng
Stained-glass sundial	BERKELEY CASTLE Berkeley Castle, Gloucs.	Eng	TOY SUNDIALS		
Stained-glass vertical sundial	HORNIMAN MUS. & GARDENS Forest Hill, London	Eng	Lead & paint toy sundial	OXFORDSHIRE MUS STORE Standlake, Oxfordshire	Eng
Stained-glass sundial	LACOCK ABBEY (NT) Chippenham, Wiltshire	Eng	UNIVERSAL EQUINOCTIAL DIALS		
Stained-glass sundial	TREDEGAR HOUSE Newport, Newport	W	Pocket Dial (Dolland of London)	ROYAL ALBERT MEM MUS. Exeter, Devon	Eng
SUN COMPASSES			UNIVERSAL RING-DIALS		
Sun compass	LETCHWORTH MUSEUM & ART GALLERY Letchworth, Hertfordshire	Eng	Universal ring-dial (Walter Hayes)	READING MUSEUM SERVICE Reading, Berks.	Eng
Sun compass	WELWYN HATFIELD MUSEUM SERVICE Hatfield, Hertfordshire	Eng	Universal ring-dial	TORQUAY MUSEUM Torquay, Devon	Eng
Sun compass ("Chichester")	ROYAL AIR FORCE MUSEUM Grahame Park Way, London	Eng	Universal equatorial ring-dial	MUSEUM IN DOCKLANDS West India Quay, London	Eng
Sun compass	DISCOVERY MUSEUM Newcastle u Tyne, Tyne & Wear	Eng	Universal ring-dial	WORLD MUSEUM LIVERPOOL Liverpool, Merseyside	Eng
Sun compass	WIGHTWICH MANOR (NT) Wolverhampton, West Midlands	Eng	Universal equatorial dial	ASHMOLEAN MUSEUM Oxford, Oxfordshire	Eng
SUNDIAL WITH THERMOMETER			Universal astronom ring-dial	SALISBURY AND SOUTH WILTSHIRE MUSEUM Salisbury, Wiltshire	Eng
Sundial with thermometer	GLASGOW CITY COUNCIL Glasgow, Glasgow	S	WROUGHT IRON SUNDIALS		
			Wrought iron sundial	NORTH LINCS MUS. SERV. Normanby, Lincolnshire	Eng

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Catalogues or partial listings have been published by some of the national museums and are listed below, together with Internet addresses for online databases.

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D.J. Bryden: *Sundials and Related Instruments (catalogue 6)*, The Whipple Museum of the History of Science (1988). Slightly out of date but gives a good listing of the dials, some illustrated in b&w.

The Whipple Museum does not currently have an online collections database. The Museum's website is at: <http://www.hps.cam.ac.uk/whipple/>

National Maritime Museum, London:

H. Higton: *Sundials at Greenwich*, OUP, Oxford, (2002). Gives a comprehensive and fully illustrated listing of all the sundials in the collection.

The NMM collections can be searched at: <http://www.nmm.ac.uk/explore/collections/>

The British Museum, London:

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The Science Museum does not have an online collection database. The main website is at:

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National Museums of Scotland, Edinburgh:

No published catalogue of the sundials at the NMS exists. Photographs of many of the dials in the collection can be found on the SCRAN website, (www.scran.ac.uk/) simply by searching for 'sundial'.

Oxford Museum of the History of Science, Oxford:

There is no known printed catalogue of sundials but the collections can be searched at:

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The British Sundial Society

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The Society was formed in 1989 and is a thriving and friendly society of some 500 members. Our objects are to advance the education of the public in the art and science of gnomonics and the knowledge of all types of sundial; to catalogue and advise on the restoration of the sundials that still exist in the British Isles, and to research their history. We organise meetings and conferences and publish four 48-page journals each year. For more information, or if you have a general query about sundials, write to the BSS Secretary c/o The Royal Astronomical Society, Burlington House, Picadilly, London, W1J 0BQ

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