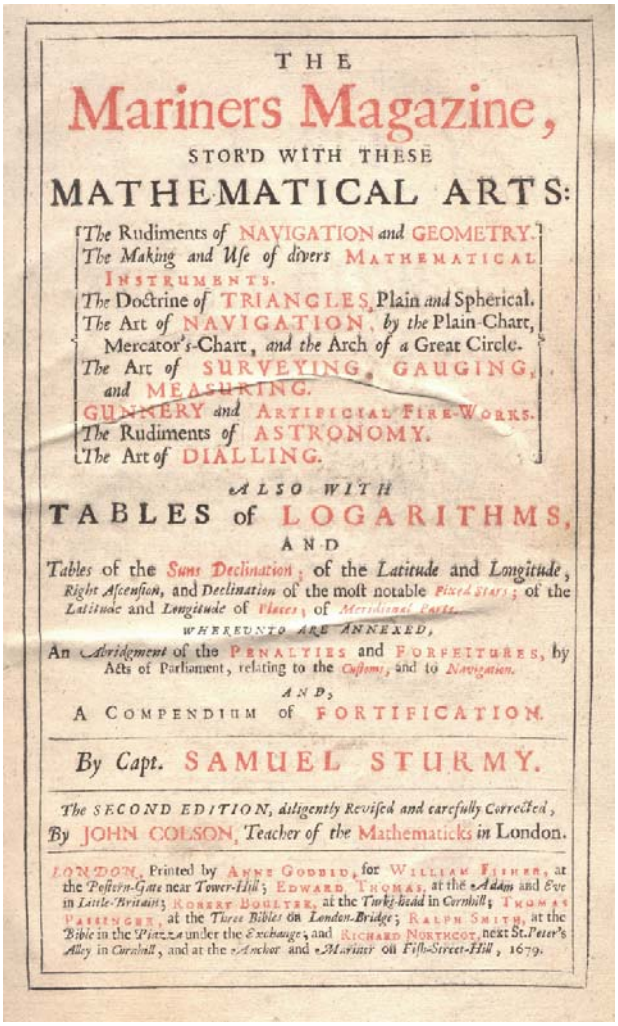
SAMUEL STURMY, THE MARINERS MAGAZINE

Second Edition, London 1679 (The First Edition was 1669 and the Third in 1700)



THE

Mariners Magazine,

STOR'D WITH THESE

MATHEMATICAL ARTS:

The Rudiments of NAVIGATION and GEOMETRY.
The Making and Use of divers MATHEMATICAL INSTRUMENTS.
The Doctrine of TRIANGLES, Plain and Spherical.
The Art of NAVIGATION, by the Plain-Chart, Mercator's-Chart, and the Arch of a Great Circle.
The Art of SURVEYING, GAUGING, and MEASURING.
GUNNERY and ARTIFICIAL FIRE-WORKS.
The Rudiments of ASTRONOMY.
The Art of DIALLING.

ALSO WITH

TABLES of LOGARITHMS,

AND

Tables of the Suns Declination; of the Latitude and Longitude, Right Ascension, and Declination of the most notable Fixed Stars; of the Latitude and Longitude of Places; of Meridional Parts.

WHEREUNTO ARE ANNEXED,

An Abridgment of the PENALTIES and FORFEITURES, by Acts of Parliament, relating to the Customs, and to Navigation.

AND,

A COMPENDIUM of FORTIFICATION.

By Capt. SAMUEL STURMY.

The SECOND EDITION, diligently Revised and carefully Corrected, By JOHN COLSON, Teacher of the Mathematicks in London.

LONDON, Printed by ANNE GODBID, for WILLIAM FISHER, at the Postern-Gate near Tower-Hill; EDWARD THOMAS, at the Adam and Eve in Little-Britain; ROBERT BOULTER, at the Turks-head in Cornhill; THOMAS PASSINGER, at the Three Bibles on London-Bridge; RALPH SMITH, at the Bible in the Piazza under the Exchange; and RICHARD NORTHCOT, next St. Peter's Alley in Cornhill, and at the Anchor and Mariner on Fish-Street-Hill, 1679.

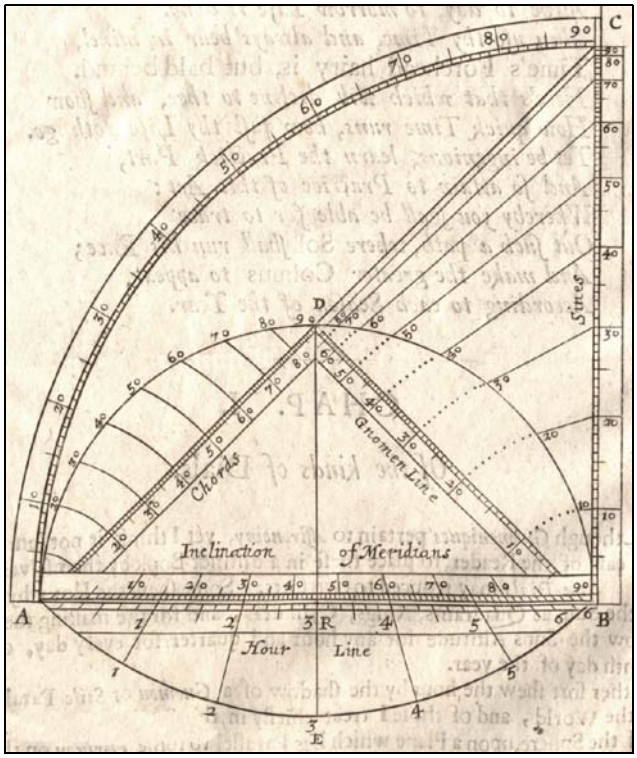
"The Mariners Magazine" is a large book with chapters about various nautical subjects, including Dialling. The contents are as follow:

The Compleat
MARINER
OR
NAVIGATOR.
The First Book.

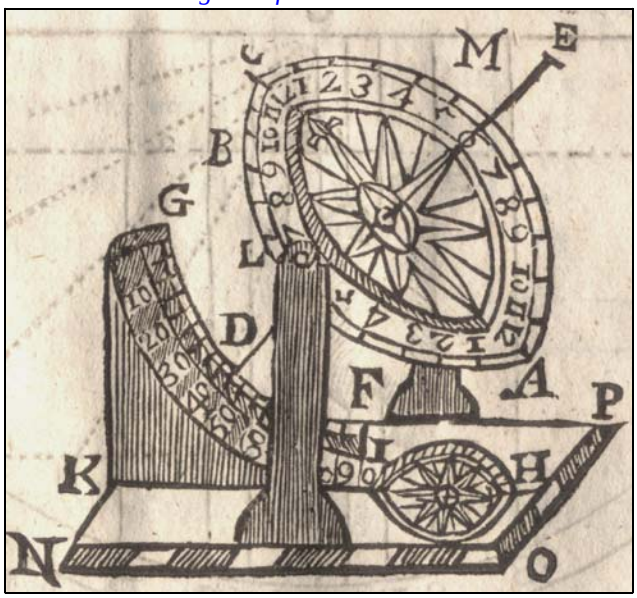
THE
Mariners Magazine:
OR,
STURMY'S *Mathematical and Practical*
ARTS.
The Second Book.

This Book also includes details on how to make and use the Nocturnal. A working copy of the Nocturnal and a Star Finder are included.

THE
Mariners Magazine;
OR,
STURMYS
Mathematical and *Practical*
ARTS.
The Third Book.



The Diagram of the Gnomonical Scale

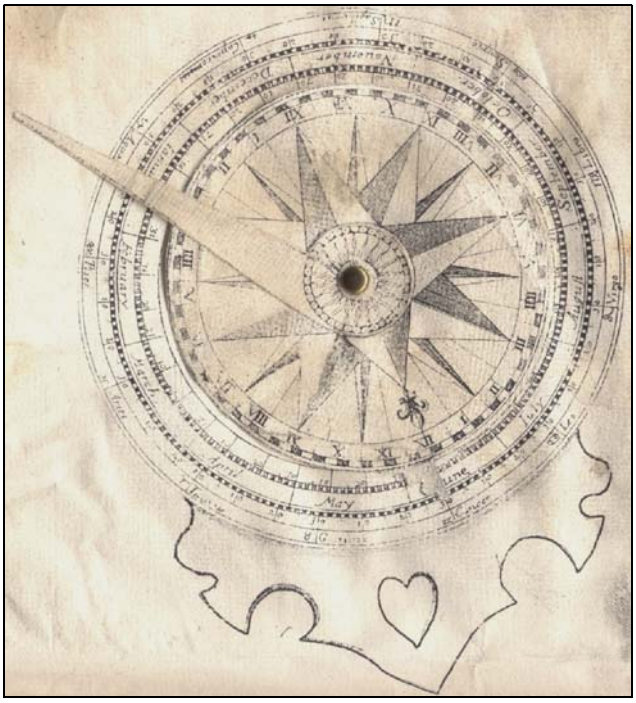


Æquinoctial Dial

THE
Compleat Sea Artist:
OR THE
ART OF NAVIGATION.
The Fourth Book.

Book four also includes, The Art of Gaging of Vessels, The Art of Gunnery and Artificial Fire-Works for Recreation.

Number of Pages: 456, 41 on Dialling. Page Size: 12" × 7¼"
Illustrations: Many with several fold out sheets. Tables: 46 pages.



A working model of the Nocturnal

The ART of
Surveying of Land
By the
SEA-COMPASS:
The Description of the
COMPASS, STAFF, and CHAIN.
The Fifth BOOK.

The Sixth BOOK.
Wherein is contained a Definition of the Circles of the Sphere, with the manner how to resolve divers necessary Astronomical Propositions by Projection, and also by the Logarithms.

The Seventh BOOK
CONTAINING
The ART
OF
DIALLING
BY THE
Gnomonical Scale,
AS ALSO BY
CALCULATION.
SHEWING
The Making of all DIALS, within Doors or without, upon any Wall, Cieling, or Floors, wheresoever the Direct or Reflected Beams of the Sun may come.
AND
How to Colour, Guild, and Paint DIALS; And to fasten the *Gnomon* in Stone or Wood.

CHAP. I.
Of the kinds of Dials.

CHAP. II.
Theorems premised.

CHAP. III.
How to make a Polar Dial, commonly called an Equinoctial Dial, and how to place it.

CHAP. IV.
How to make the direct Æquinoctial Dial, or Polar Plane.

CHAP. V.
How to make the East or West Æquinoctial Dial, Lat. 51 *d.* 30 *m.*

CHAP. VI.
Of the kinds of Oblique Dials.

CHAP. VII.
How to make the Vertical Dial, commonly called the Horizontal Dial.

CHAP. VIII.
A South or North Horizontal Dial, commonly called, an upright North or South Dial, and how to make it.

CHAP. IX.
How to deliniate a South Plane Reclining 67 *deg. in the Latitude of* 51 *deg.* 30 *min. Northerly.*

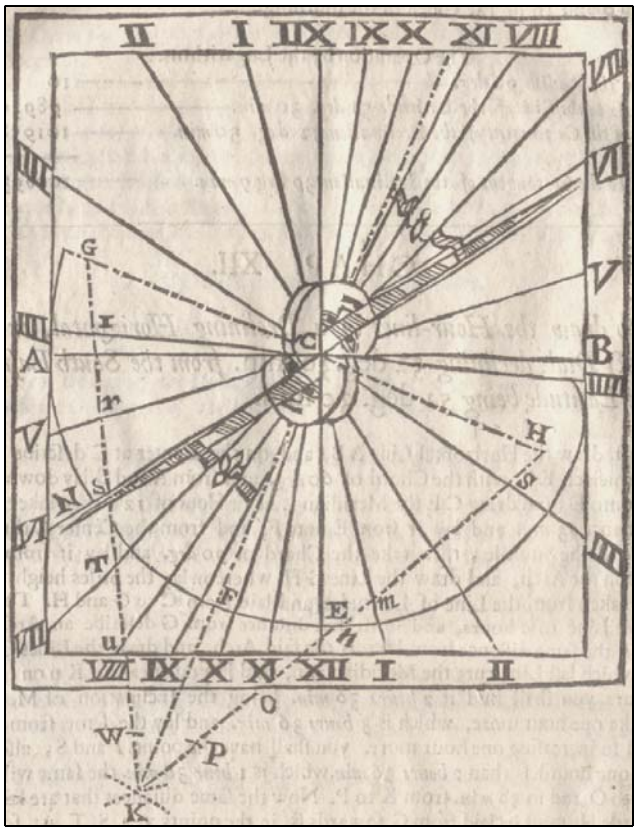
CHAP. X.
How to find the Declination of a Plane.

CHAP. XI.
How to find the requisites in a Declining Horizontal Dial, commonly called a South erect Decliner, declining from the South Eastwards 32 deg. 30 min. *in the Latitude of* 51 deg. 30 min.

CHAP. XII.
How to draw the Hour-lines in a Declining Horizontal, or South erect Dial, declining 32 deg. 30 min. *from the South Eastward, the Latitude being* 51 deg. 30 min.

CHAP. XIII.
How to delineate an East or West Reclining or Inclining dial.

CHAP. XIV.
Of Declining, Reclining, or Inclining Planes.



The Construction of a Vertical Declining Dial

CHAP. XV.
How to find the requisites, and how to delineate a South Reclining or North Inclining Dial.

CHAP. XVI.
Another way to delineate Reclining or Inclining Decliners.

CHAP. XVII.
How to find the Requisites, and how to delineate a North Declining Recliner, and a South Declining Incliner.

CHAP. XVIII.
How to delineate such Planes wherein the Stiles height is small, not exceeding 15 *degrees.*

CHAP. XIX.
How to draw a reflected Dial upon the Cieling of a Room.

CHAP. XX.
How to make a Universal Dial on a Globe; and to cover it if it be required.

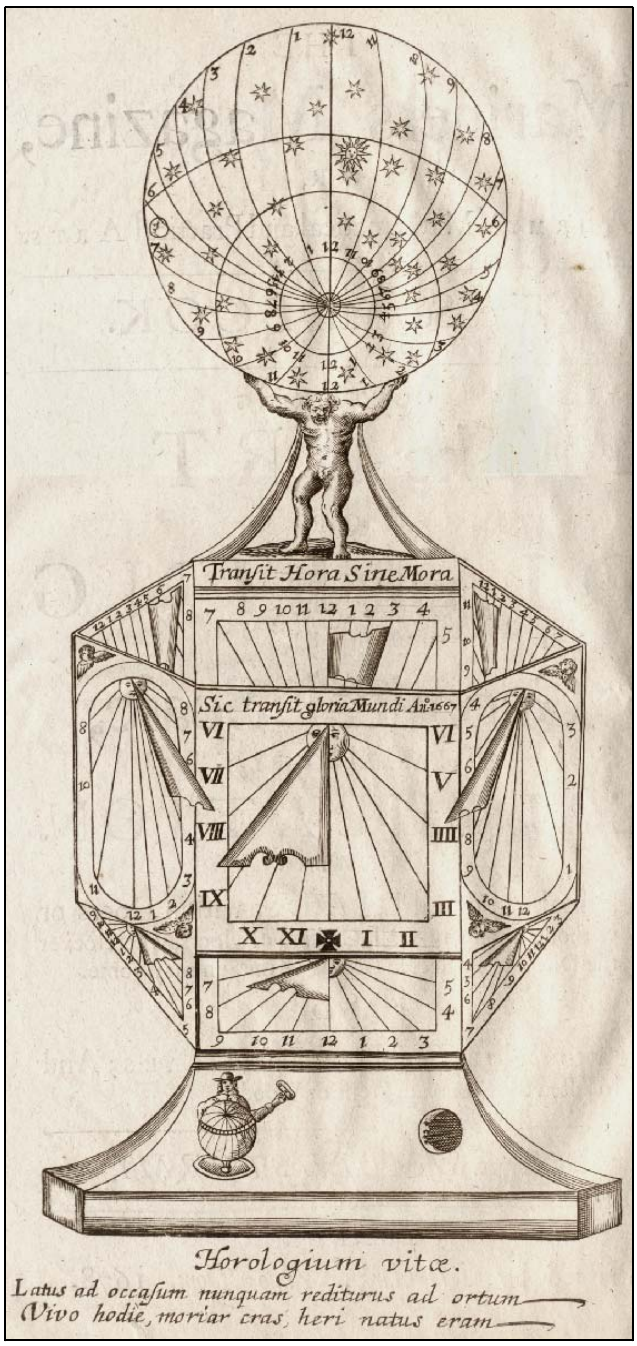
CANON
TRIANGULORUM
LOGARITHMICUS:
OR, A
TABLE
OF
ARTIFICIAL SINES
AND
TANGENTS
TO
Every DEGREE and MINUTE
OF THE
QUADRANT.
The Common Radius being 10, 000000.

CHILIADES
DECEM
LOGARITHMORUM,
OR
The LOGARITHMES of all NUMBERS
From an Unite to 10000: Whereby the *Logarithmes* of all *Numbers* under 1000000 may be speedily deduced.

First Composed by that Excellent Mathematician
Mr. *HENRY BRIGGS*,
Professor of *Geometry* in the University of *Oxford.*

A
SUMMARY
OF SUCH
PENALTIES and FORFEITURES
As are Limited and Appointed by Several
ACTS
OF
PARLIAMENT
Relating to the
CUSTOMS and *NAVIGATION.*
As ALSO
For the EXPORTING and IMPORTING of
PROHIBITED GOODS.

A
COMPENDIUM
OF
FORTIFICATION.



A Multiple Dial

BOTH
Geometrically and Instrumentally
BY A
SCALE,
The Making whereof is shewed by the Tables, and their Use, both of the Tables and the Scale, for speedy Protracting of any Fort consisting of 8 Bulwarks, whose Bastion-Angles shall not exceed 90 Degrees ; and so the like for Bastion-Angles of 12 Bulwarks.

WRITTEN BY
PHILIP STAYNRED
Professor and Teacher of the MATHEMATICKS
in the City of BRISTOL.

FINIS.