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**Editorial Advisers** Professor Eila M.J. Campbell  
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**Assistant Editor** Valerie G. Scott  
**Research Editor** John Goss  
**Designer** Ashley Pope  
**Advertising Manager** Josephine Bailey  
**Publishers** Map Collector Publications Limited  
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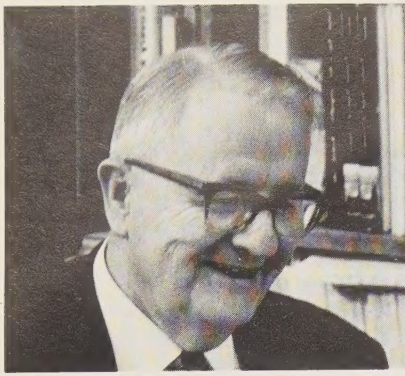
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The map of Sicily from Christoph Keller's Tabulas Geographicas (1774). (See page 50 for Collation of this unusual atlas). (Photo by John Webb.)





RONALD VERE TOOLEY

## Editorial

SINCE MAPS HAVE become big money there has been a great increase in the number of thefts. Most of the big map dealers have had burglaries and not dealers only, many public libraries have had maps stolen.

According to an article which appeared recently in the *Smithsonian* magazine, which is published by the Smithsonian Institute in the USA, 'plundering maps, documents and rare volumes, has become a big illegitimate business for crooked individuals and even for gangs.' They go on to say that no repository today is altogether secure, not even out of the way public libraries with only a few thousand books. Libraries and archives have always suffered thefts but never before on the scale of the past few years. Of course, never before has there been such a demand for the fruits of their labour.

A public library in the north of England had some maps stolen from a copy of Saxton's atlas. They were put in a public auction and were sold, but being recognised by someone the buyers had to return them to the library. The auction house refunded the money. Also, many miniature atlases have disappeared recently from auctions between viewing time and the date of the sale. This brings up the subject of insurance. The price of maps rising so rapidly has naturally forced up insurance rates, and for many to such an extent that it is no longer worthwhile. I know of one institution with a large collection, who now find it impossible to insure as the cost would exceed their yearly income.

The only real protection today is a far tighter security. In public places that means physical observation in daytime by watchful attendance, or light rays all night. The British Library have instituted a check on all the bags of those leaving the Library and this certainly helps to deter the casual thief.

All dealers and booksellers should obviously check when they are offered atlases and maps for sale for library identifying marks and also be vigilant about checking individual maps from unknown sources.

On a lighter note, I want to ask you all to be rooting for your very own donkey. He is called 'The Map Collector' and will be running on home ground in the Donkey Derby at Tring in Hertfordshire on June 15 this year. He will be pulling a 'sulky' driven by none other than Billy Beardwood, Red Rum's lad. Red Rum will also be there to support us and perhaps bring about a repeat of his famous success in the Grand National! Any readers who can come along to cheer 'The Map Collector' must be at Pound Meadow in Tring at 2pm.

# All the

## ...Some unusual World Maps on a Single Polar Projection

by Rodney W. Shirley

*The maps described in this article span two hundred years of cartographic development starting in the sixteenth century. During this time map makers experimented with a variety of map projections including the polar projection as described here.*

*Rodney Shirley, who recently became a Senior Civil Servant in London, studies maps in his spare time and what began as mere interest has increased to become a totally absorbing hobby in which he is now an acknowledged expert. He has just finished a full scale carto-bibliography of printed world maps which it is hoped will be published later this year. Some of the maps noted in his article are extremely large, and so we have illustrated certain parts only rather than attempt to reduce the whole map photographically and lose much of the decorative engraving.*

THERE ARE ENOUGH difficulties, so it might be thought, confronting map-makers in trying to portray the world on one of the more customary projections, whether conical, oval, cordiform, cylindrical (as Mercator's) or just as twin hemispheres. Nearly all references dealing with map projections describe the processes of compromise and trial leading to the choice of any particular projection for a specific purpose.<sup>1</sup> Attempts to encompass the whole world within a single circumference run into cumulative problems because of the increasing distortion accepted.

In spite of these disadvantages a number of interesting world maps on a single polar projection are known. This article briefly describes some of them which were printed up to the early eighteenth century. Several of these maps, notably those by Postel, Pisani, Monte and Doncker-Robyn are magnificent multi-sheet maps which are relatively unknown and deserving of larger reproduction and more thorough study than can be given here.

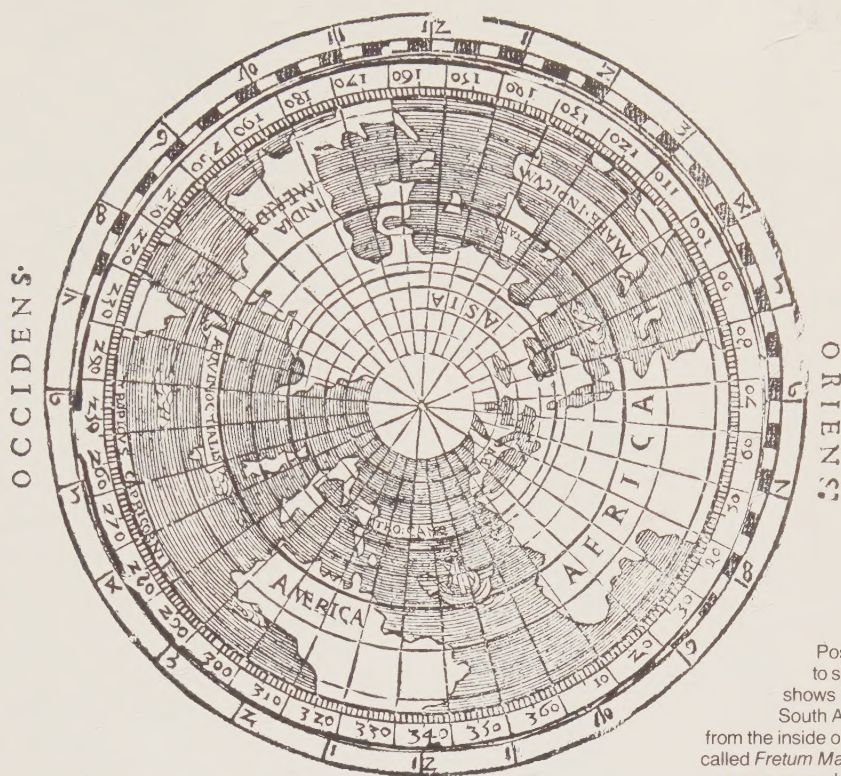
The first printed conception of a polar projection seems to have appeared in Gregor Reisch's *Margarita Philosophica* of 1512. This work, first published in 1503, was a kind of popular handbook of moral and natural philosophy much read by university students. One of Reisch's diagrams is reproduced by Nordenskiöld<sup>2</sup> with the outline of land masses in the northern hemisphere roughly sketched in. Peter Apian, the German cartographer, prepared a small circular map showing all the world as far as 25° south to accompany his *Cosmographicus Liber* of 1524. In accord with explorers' reports, South America is shown separated from a diminutive North America by a broad sea channel. Apian's map was reprinted in the many later editions of his work; Nordenskiöld also gives a reproduction.<sup>3</sup>

Throughout the sixteenth century several different forms of world map projection were experimented with, some configurations being more distinguished for their artistic elegance than their geographical usefulness. The unique large woodcut by the Frenchman Guillaume Postel combines both decorative and



# World within a circle...

MEDIA NOX.



Peter Apian, in his *Cosmographicus Liber* of 1524 introduced one of the first circular maps of the world. The separation of the Americas, and the diminutive size of North America, are features derived from Waldseemüller. Nordenskiöld, in his *Facsimile Atlas*, shows that Apian's map is in fact a very accurate representation of a stereographic net. (By courtesy of Rodney W. Shirley.)

MEDIA NOX.

Postel's woodcut map of 1581 is too large to show in its entirety. The section illustrated shows North America, with a reversed-image South America appended, as if it were viewed from the inside of a sphere. The Straits of Magellan are called *Fretum Martini Bohemi* by Postel: his cartouches are composed of complex mechanical and geometric figures such as gears and cranks. (By courtesy of the Bibliothèque Nationale, Paris.)











This lower right-hand quadrant from Ottavio Pisani's map of 1612 shows the Americas in mirror-image form, with south at the top. Because the whole map is on a south polar projection, distortion is at its greatest towards the north as it extends to the circumference. The engraving of Pisani's map, which measures 160 cm by 160 cm and is on twelve sheets, is of a very high standard, perhaps by Jan Wierix. (By courtesy of the Bibliothèque Nationale, Paris.)





Pisani's world map of 1612 was copied by Pieter Verbist in 1637. The south polar projection is retained, but the continents are drawn the right way round. The graceful baroque figures skirting the circumference represent some of the planets. China, Korea, and Japan (not shown on the part of the map reproduced above) were completely revised, based on information sent back to Verbist by Jesuit fathers. (By courtesy of Bibliothèque Nationale, Paris.)

cartographic interest. Measuring 120 x 90cms., it is entitled *Polo Aptata Nova Charta Universi Auth. Guil.° Postello* and was first issued in Paris in 1581. It was re-issued in 1589 but the only surviving copy is an impression of 1621 which is preserved in the Bibliothèque Service Historique de la Marine. The southern hemisphere is divided into two reduced-scale quarters and placed mirror-image in the top corners. Postel's map is a tour-de-force, with geographical information in great detail and surrounded by complex and striking decoration. It strongly influenced De Jode and others of the late sixteenth century Antwerp school.<sup>4</sup> A much reduced copy was published by Severt in 1590 and 1598.<sup>5</sup>

Another scientist-savant was John Blagrave of Reading. It is thought that copies of his terrestrial and celestial maps were prepared for his *Astrolabium Uranicum Generale* of 1596, but all three known sets of the maps are found separately.<sup>6</sup> The engraver was the accomplished artist Benjamin Wright who has included the tracks of the circumnavigations of Drake and Cavendish. Lands south of the equator are shown by extending the circular northern hemisphere into each of the corners, with southern America and southern Africa neatly fitting into the two lower spandrels. At the top is an unusual revolving rule, or zenith, used for astrolabe calculations.

The signature of the Neapolitan Jannuarius Picicaro appears on an unusual world map dated 1597, a year after Blagrave's. It is engraved on ivory in the desk table of a large Neapolitan cabinet, recently acquired by the Hamburg Museum für Kunst und Gewerbe.<sup>7</sup> The map is fashioned in elegant Italianate style reminiscent of maps in composite atlases, yet showing the influence of De Jode and his predecessor Postel. Recently I found in the Bibliothèque Nationale a nineteenth century pen-and-ink

sketch of a similar map stated to be in the Institut Nationale des jeunes sours de Paris.<sup>8</sup> Efforts to trace the present whereabouts of the cabinet once in the Institut Nationale have not succeeded and a certain amount of mystery surrounds it. A contemporary of Picicaro, the Milanese Urbano Monte had meanwhile been working since 1590 on a sixty four sheet world map on a single polar projection. The sheets were engraved in 1604 and also published as two separate single-sheet maps in 1603 and 1604, each following slightly different polar projections. Both consist of straight-line longitudinals with concentric circles of latitude: however on the large 1604 map and its smaller counterpart the projection is a novel one. Although still centred on the north pole, the southern equatorial parts have been condensed into four projecting lobes, with the latitudes in each case all converging onto one of four circumferential points in the north-east, north-west, south-east and south-west. Monte's maps are distinctively Italian in their precision and in their neat unobtrusive lettering. Apart from the sheets in Milan, no other example has been recorded and Monte's work is very little known today.<sup>9</sup>

Another Italian was Ottavio Pisani who settled in Antwerp in the early 1600s. He originated two rare and complex world maps on twelve and nine sheets respectively. The first, on twelve sheets, dates from around 1612 and is doubly unusual, for not only is the whole world presented from a south polar viewpoint but all the land masses are drawn in reversed form as mirror images of themselves. Place names, however, read normally from left to right. Articles referring to Pisani and his work throw little further light on this extraordinary composition.<sup>10</sup> Copies of his map are to be found in the National Maritime Museum, the Bibliothèque Royale, Brussels, and in the Bibliothèque Nationale, Paris. The



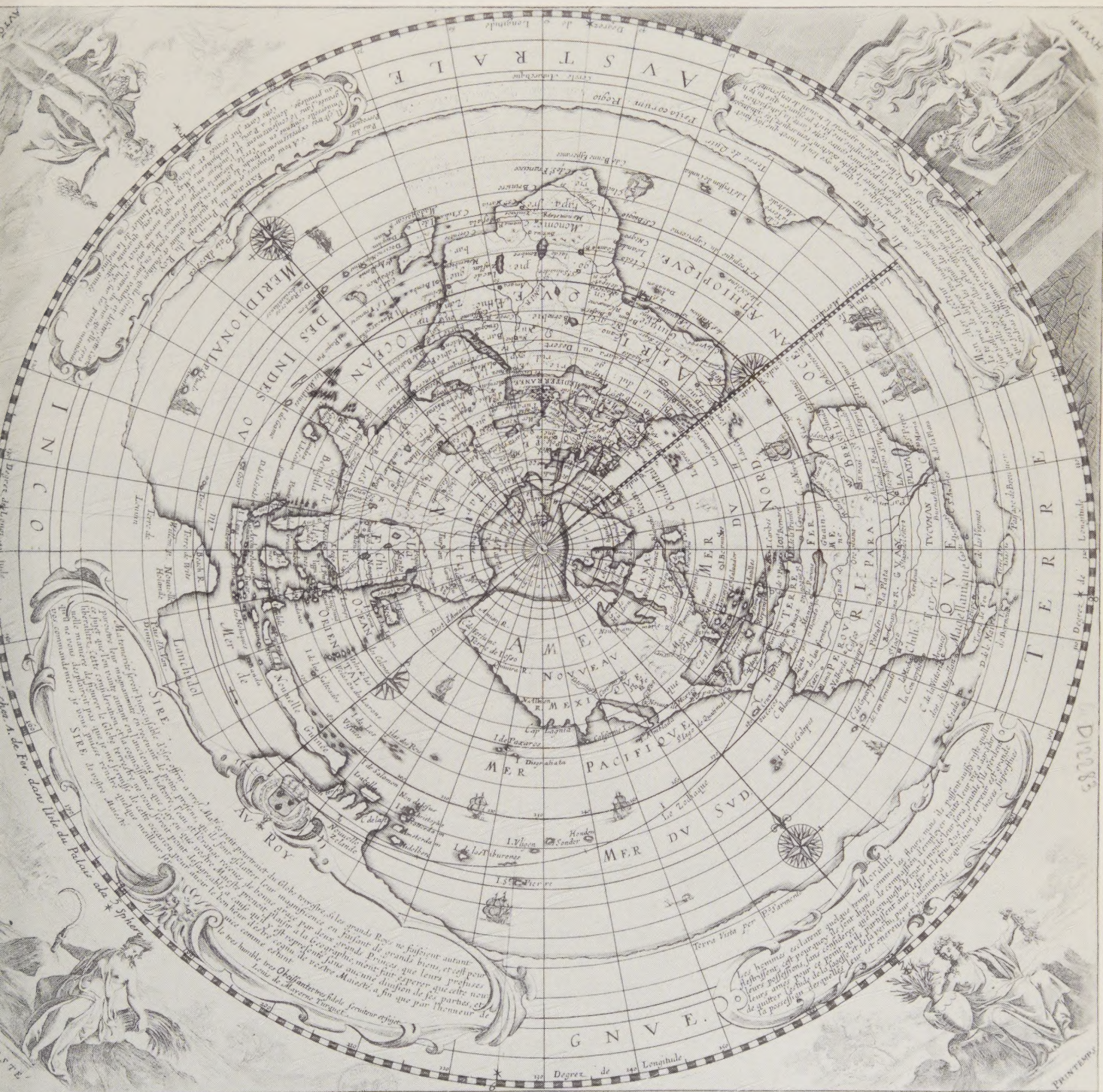
second work is on nine sheets and is an adaptation of Pisani's map by Pieter Verbist, also of Antwerp. In this map, which is dated 1637, the south polar orientation is maintained but the continents have been drawn normally and not as mirror images. The engraving is of a high standard, with planetary figures skirting the map's circumference and large statuesque personages gracing the outer borders. The only copy I have seen is in Paris<sup>11</sup>: another copy which was at one time in the Bayerische Staatsbibliothek, Munich, perished during world war II.

By the mid-seventeenth century, traditional practices and methods were being questioned by scientifically-minded thinkers in England and France. The book *Discours Sur La Carte Universelle* by the Frenchman Louis Le Mayerne Turquet published in 1648 reviews earlier map projections, including those by Postel and Pisani. Turquet then describes a projection stated to

be his own invention, illustrated by a world map on a north polar azimuthal projection with equidistant concentric circles of latitude.<sup>12</sup> Re-issues in 1661 and 1678 have been noted, with the imprint of Antoine de Fer and the addition of more place names. De Fer - less scientifically-minded than Turquet - devised a set of rules for an armchair game of travel to accompany the map. Players could (in de Fer's words) 'encircle the world without hazard or fatigue; be safe from tempests, shipwrecks, and even pirates, without leaving their places.'

In spite of these diversions, Turquet's map influenced a number of later cartographers, and his projection was used for an outstanding four-sheet map dated 1687 by two Dutchmen, Hendrik Doncker and Jacob Robijn. This map is known by a unique example in the Bibliothèque Nationale<sup>13</sup>; it is titled 'Nieuwe Wereld' and is signed by the engraver Jacob Harrewijn.

Antoine de Fer's re-issue of Louis le Mayerne Turquet's azimuthal north polar map of 1648 was accompanied by a set of rules for an armchair game of travel and adventure around the world. (By courtesy of Bibliothèque Nationale, Paris.)

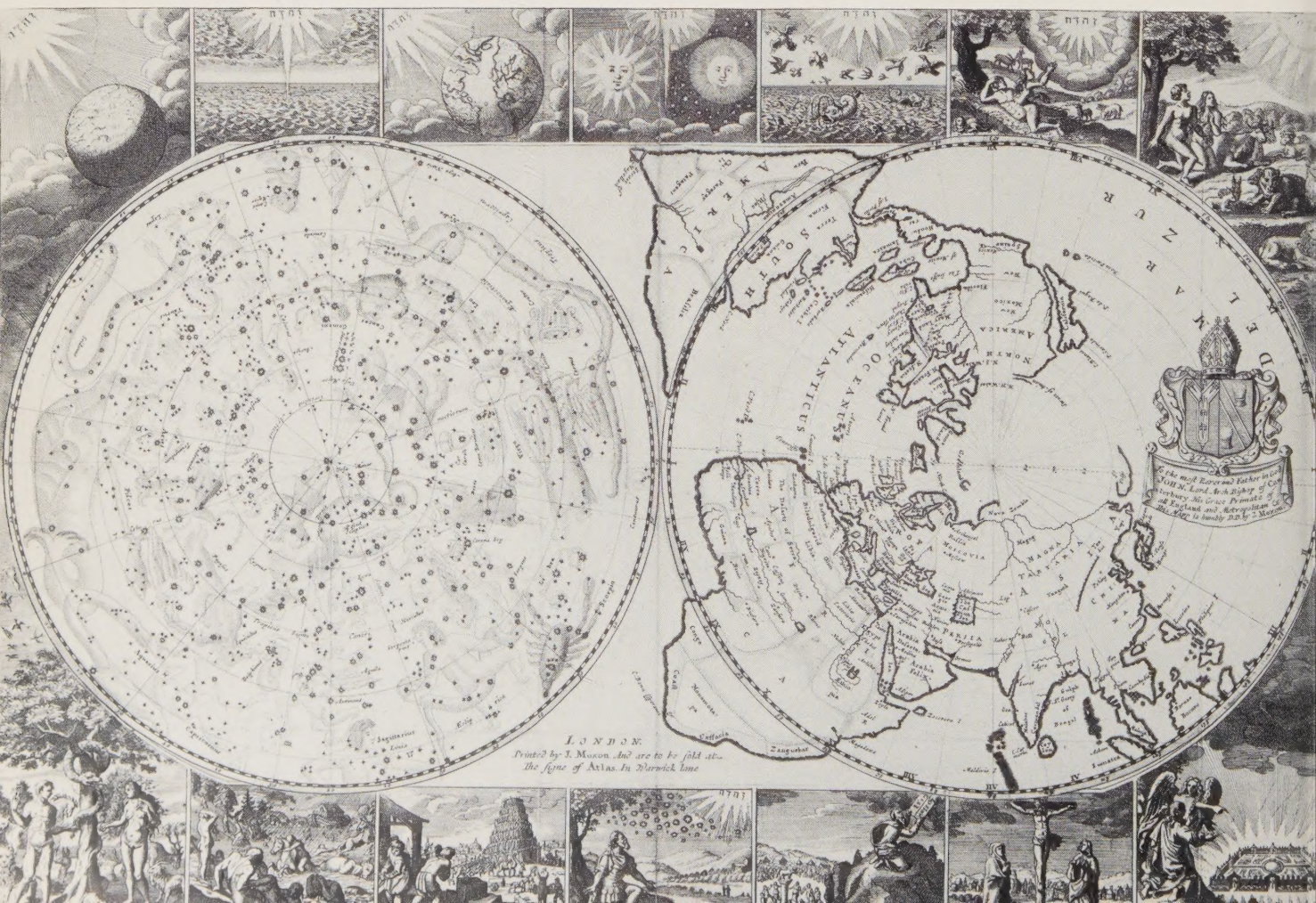






Jacob Robijn's world map dates from about 1696. It is reduced from a much larger one prepared in collaboration with Hendrik Doncker. Later issues of Robijn's map by Cornelis Danckerts are also known. (By courtesy of Maritiem Museum, 'Prins Hendrik', Rotterdam.)

James Moxon's double map of 1691 combines both celestial and terrestrial worlds, together with border vignettes of Biblical scenes. The Moxon family advertised similar maps in the *Term Catalogues*, saying that they could be bound up with Bibles. (By courtesy of the British Library.)







J.D. Cassini's famous map of 1696 (here shown as re-issued by his son c.1712) was based on a huge circular map, eight metres across, laid out on the floor of the Paris observatory. Astronomical observations of the eclipses of Jupiter were taken from stations throughout the world in order to determine longitude precisely for the first time. The location of over forty such stations is marked on the map by a small star in each case. (By courtesy of the Bibliothèque National, Paris.)

The geographic features follow those typically found on Dutch world maps of the period 1660-1680 but with one obsolete rendering: no indication is given of the Great Lakes system in North America and instead the St. Lawrence is shown issuing from a large open-ended lake, as depicted by Blaeu in 1648. Copies of a later state of the Doncker-Robijn map can be seen in the Maritiem Museum, 'Prins Hendrik', Rotterdam, and in the Universiteitsbibliotheek, Leiden. In these examples Doncker's name has been erased so that Robijn alone is credited as the author. The date has also been altered to what appears to be 1691 (but could be 1697) and the signature *A.L. Inventor* added. These initials are of Andreas van Luchtenburg who is known to have collaborated with Robijn<sup>14</sup>, also producing a companion celestial map to Robijn's single-sheet 'Nieuw Aerdsch Pleyn' which is clearly derived from the larger map above.

The date of Robijn's single-sheet map is uncertain. It is found with his signature in a copy of his rare *Atlas De La Mar* of 1696<sup>15</sup> and another example is bound, perhaps at a later date, in the Robijn atlas regarded as post-1686 in the Library of Congress.<sup>16</sup> Other examples may be known. In all geographic essentials it is a reduction of the larger Doncker-Robijn prototype of 1687. The engraving of the sumptuous allegorical scenes in the corners of the

map is highly reminiscent of the style of Harrewijn. Later copies of this map dating from the early 1700s are more frequently found, and in these cases Robijn's signature has been erased and that of Cornelis Danckerts III (1664-1717) has been added. Keuning described this version in *Imago Mundi*<sup>17</sup> but attributed the authorship to Cornelis Danckerts II (1603-1656) with publication by his heirs in c. 1660. Two variants of Danckerts' issue are known: one carries additional data on the map giving the lengths of the day and night at various latitudes.<sup>18</sup>

In England, the map-seller James Moxon devised a novel map containing both celestial and terrestrial hemispheres. It is found with accompanying text dated 1691 and a set of biblical maps originally prepared by James' father Joseph in 1671.<sup>19</sup> In James' map the terrestrial hemisphere extends as far as the equator with the southern parts of Africa and America spreading into two of the corners. Around both hemispheres are fourteen biblical scenes closely copied from Joseph Moxon's more commonly-found world map on an oval projection.

The most celebrated polar projection map is that by Giovanni Domenico Cassini, based on the worldwide astronomical observations of the satellites of Jupiter collected by the Paris Observatory of the French Académie des Sciences between 1676

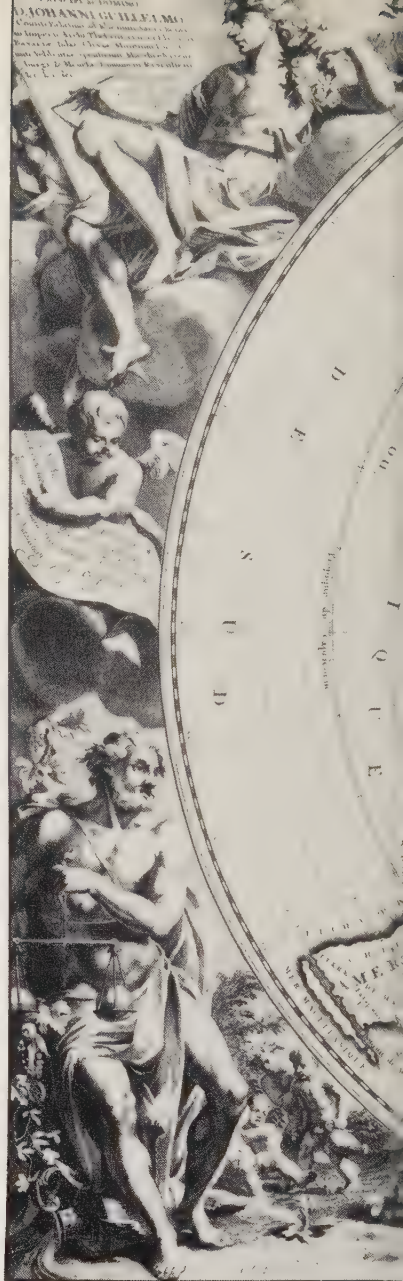


and 1683. Initially these observations were recorded on a giant circular map eight metres in diameter on the floor of the Observatory. Cassini's map of 1696 was the first printed representation in this form although other maps (such as the large de Fer-van Loon double-hemispherical world map of 1694) had been based on the Academy's observations. Cassini's map was published in Paris by Jean Baptist Nolin and its making has been described by Brown.<sup>20</sup> In spite of its importance as a record of scientific geography its direct influence was limited. Only two copies of the first state of 1696 are recorded for certain, and relatively few examples of the second state with the signature of Cassini's son, dating from about 1712, have been located.<sup>21</sup>

Better known is the more decorative world map published in Amsterdam also around 1712 which, although usually attributed to Francis Halma, seems to be by a combination of hands. It is clearly based on the Academy's astronomical observations and is drawn on the same projection as Cassini's map of 1696, with due acknowledgement to Cassini junior. As well as the imprint of the publisher Halma there are three further signatures: *J. Goree del.*, *P.D. Schoonebeck Sculpcit*, and *G.v. Gouwen fecit*. It seems probable that Schoonebeck (joint author of an unusual Armenian world map of 1695) drew the map and that the other two artists were responsible for the grand classical figures to the right and left of the main terrestrial sphere. Halma's map was described in detail by Sandler<sup>22</sup> and much of his discussion is still valid. However his enthusiasm for the map led him to argue that it was the Academy's original publication of 1694 and should be dated accordingly.<sup>23</sup> It was included in van der Aa's *Nouveau Theatre du Monde* of c1713 with amended inscriptions and Schoonebeck's signature omitted; it was also reprinted in his *Galerie Agréable du Monde* of 1729.<sup>24</sup> Later the plate passed into the hands of Covens and Mortier who issued it under their own imprint in the 1730s.

At the beginning of the eighteenth century the north polar projection also found favour with the German Jesuit mathematician and author Heinrich Scherer. The seven volumes of his *Atlas Novus*<sup>25</sup> date from between 1702 and 1710 and contain ten different world maps of which several show the whole world viewed from the north pole. The engravers Johann Degler, Leonard Hecknauer, Joseph à Montalegre, and Matthäus Wolfgang signed the various title pages and may have been responsible for the cartographic work, in several instances illustrating the spread of Jesuit missions throughout the world. The maps, which are crisply engraved and are ornamented with religio-historical vignettes, are now being appreciated by collectors.

In about 1712 Francis Halma and other artists prepared a new version of Cassini's 1696 world map, adding grand classical figures to the right and left of the main terrestrial circle to make the map more popularly attractive. (By courtesy of the British Library.)



Several of Heinrich Scherer's single polar maps show the diffusion of Catholicism throughout the world. This one depicts the location of Jesuit missions; to be found in places as widespread as Turkestan, Abyssinia, Borneo and the centre of North America. There are ten maps of the world in Scherer's *Atlas Novus*, published between 1702 and 1710. (By courtesy of Rodney W. Shirley.)







The dozen or so maps described in this article span two hundred years of cartographic development. During this time map makers experimented with a variety of map projections - polar, oval, cordiform, planispherical and others. By the 1700s two types came to predominate: Mercator's cylindrical projection and the more widely accepted stereographic projection on two hemispheres.

As we have seen, single polar maps are typically rare and specialised examples of cartographic art. Only the maps by Apian, Halma or Scherer, or the Danckerts states of the single-sheet Robijn map are likely to be seen except among institutional collections. Perhaps this article will lead to the uncovering of further examples and will help to clarify some of the relationships and attributions which have so far been uncertain.

## References:

- 1 For instance see J. Keuning, 'A History of Geographical Map Projections until 1600', *Imago Mundi* XII, 1955; J.A. Steers, *Introduction to the Study of Map Projections*, London, 1965 (edition 14); Richard E. Dahlberg, 'Evolution of Interrupted Map Projections', *International Yearbook of Cartography* II, 1962.
- 2 A.E. Nordenskiöld, *Facsimile Atlas to the Early History of Cartography*, New York (reprinted), 1973. See fig. 55, also chapter VIII on map projections.
- 3 Nordenskiöld, op. cit., fig. 57.
- 4 M. Destombes, 'An Antwerp Unicum: an Unpublished Terrestrial Globe of the 16th Century' ..., *Imago Mundi* XXIV, 1970. (This article reviews Postel's world map as a major influence on the anonymous globe gores under study.)
- 5 British Library C. 74.e.2 (1598 edition).
- 6 See A.M. Hind, *Engraving in England in the 16th and 17th Centuries*, London, 1952-55, Part I, p.216. Copies of the maps are to be found in the British Library Harl. 5935 (15), in the Bodleian Library, Oxford, Ashmole 417 no. 237; also

- Robert Douwma *Catalogue* 22, 1979, no. 102.
- 7 Described by D. Altfer in *Ein neapolitanischer Kabinettschrank des Giacomo Fiammingo (?) und Giovanni Battista de Curtis*, Pantheon, 1979.
- 8 Bibliothèque Nationale Rés. Ge.D.7828.
- 9 Monte's world maps, manuscript and printed, are described in R. Almagià ... Il planisfero di Urbano Monti, *La Bibliofilia*, Firenze, 1941.
- 10 For instance, G. Marcel, 'Ottavio Pisani, mathématicien et cartographe Napolitain', *Bulletin de géographie historique et descriptive*, Paris, 1889-90; G. Wauwermans, *Histoire de l'Ecole Cartographique Belge et Anversoise* ..., Brussels, 1895, vol.2, pp.285-290.
- 11 BN Rés. Ge. AA.1342.
- 12 BL Maps 902 (53) (1648); BN Ge.D.12283 (1661).
- 13 BN Ge.C.8470.
- 14 C. Koeman, *Atlantes Neerlandici*, Amsterdam 1967-71, vol. IV, p.436.
- 15 Maritiem Museum 'Prinz Hendrik', Rotterdam, WAER 103.
- 16 Library of Congress, Phillips 493; also Koeman, op.cit., Rob.8.
- 17 J. Keuning, 'Cornelis Danckerts and his 'Nieuwe Aerdsc Pleyn', *Imago Mundi* XII, 1965.
- 18 BL Maps 920 (59), attributed to 1660?, perhaps following Keuning; Koeman, op.cit., Dan.4 and Dan.5; William L. Clements Library, Ann Arbor, Michigan, example with added data reproduced in *Imago Mundi* XII.
- 19 BL Maps 966 (1); also Maps 48.e.1. (1) with proof state of map lacking signature and dedication. The accompanying text is to be found under Maps C.26.a.16, catalogued under 'Joseph Moxon 1671; James Moxon 1691.'
- 20 L.A. Brown, *J.D. Cassini and his World Map of 1698*, Ann Arbor, 1941. See also Brown's *The Story of Maps*, Boston, 1949, chapter VIII.
- 21 Brown records two copies in Paris and a further one in Yale University Library. However the two copies in the Bibliothèque Nationale (Ge.DD.2987 and Ge.C.8479) are both the second state with the imprint of Cassini's son.
- 22 C. Sandler, *Die Reformation der Kartographie um 1700*, München, 1905.
- 23 The British Library's current catalogue of world maps gives [1694] for the date of Halma's map in one entry and [1700?] in another. The map reference is Maps 184.g.2.(4).
- 24 Koeman, op.cit., Aa.6 and Aa.9.
- 25 BL 572.k.1-8 and Phillips 3457-3462, 3471.



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# Eliza Colles America's First Female Map Engraver

by Walter W. Ristow

*The September 1978 issue of The Map Collector included R.V. Tooley's list of 'Women in the Map World.' In a brief introduction to the list, Mr. Tooley hoped that 'this may open the way for a general monograph on the subject, or a more detailed study of a particular person.' This paper by Dr. Ristow, who retired as map librarian at the Library of Congress in Washington DC in 1978, was inspired by Mr. Tooley's challenge and offers a 'worthy addition to his list,' Eliza Colles, America's first female map engraver.*

ELIZA WAS THE daughter of Christopher and Anne Keough Colles, who emigrated from Ireland to the American colonies in 1771. Christopher, orphaned at an early age, had been educated by Dr. Richard Pococke, a distinguished cleric of the period, and by his uncle, William Colles. While still in Ireland, young Colles was involved in various engineering, canal building, quarrying, mapping, and construction activities. He was a restless soul, and moved from job to job with great frequency, and often found it difficult to support his growing family.

Following the death of Pococke, in 1765, and William Colles, in 1770, Christopher's major ties to Ireland were severed. He

decided, therefore, to emigrate to America, where he hoped to find greater opportunities for utilizing his scientific and engineering training and experience.<sup>1</sup> The Colles family landed in Philadelphia August 10, 1771, and within a fortnight Christopher was advertising his several specialties in the *Pennsylvania Chronicle*. Employment opportunities were meagre, however, and the young engineer resorted to public lectures to earn some income. With only indifferent success in Philadelphia, in late 1773 or early 1774, Colles sought better opportunities in New York City. Shortly after settling his family there, he proposed to city officials a plan to construct a steam pumping station and reservoirs to provide fresh water to the citizens.

The plan was approved and for the next two years Colles directed work on the project. The water works was well on the way to completion when the outbreak of the Revolutionary War, and occupation of the city by British troops, brought construction to an abrupt halt. Some two decades later Colles received belated, and limited, compensation for his work on the New York City water supply project.

Because of his intimate pre-war association with John Lamb, and other ardent members of the Sons of Liberty, Christopher Colles deemed it expedient to flee from New York City in 1776. Shortly before the exodus his wife Anne gave birth to a daughter, who was named Elizabeth, or Eliza. She is believed to have been the ninth (of eleven) children born to Anne and Christopher Colles, the majority of whom did not attain adulthood.<sup>2</sup>

The Colles family fled first to northern New Jersey where they remained for five or six months. Eventually they worked their way northward and spent most of the remaining five or six years of exile in the highlands of New York State between New York City and Albany. There is little information about how the family survived these difficult years. Christopher may have conducted road surveys for the American army, and possibly also taught principles of gunnery to artillery officers. He also constructed a perambulator, for measuring and surveying roads, and contemplated the possibility of improving water navigation on the Mohawk River in the post-war years. It is likely that the perambulator was used in preparing maps of the roads on both sides of the Hudson River, extending south from Albany. Colles may also have formulated plans for a road book of the country prior to re-establishing residence in New York City in 1783.

Immediate needs of providing food and shelter for his family forced postponement of the road map project. It was not until 1789, therefore, that Colles issued a broadside announcing *Proposals for Publishing a Survey of the Roads of the United States of America*. As set forth in the broadside, the *Survey* was to be issued in parts, on a subscription basis. It is possible that the title page of the road book and perhaps several of the map pages, were also distributed in 1789.

Colles had experience in map making before leaving Ireland, and most certainly he prepared the maps for the *Survey of the Roads*. To engrave the title page, and very likely, at least some of the maps, he engaged a young engraver, Cornelius Tiebout. Operating as he inevitably did, with little or no capital resources, Colles sought help from his small circle of intimate friends. Cornelius, born around 1760, was one of several sons of Tunis and Elizabeth Lamb Tiebout. The latter is believed to have been a relative of John Lamb, Christopher's longtime friend.

Cornelius Tiebout was just beginning his career in 1789 and the engraving for the title page and the individual maps reflects this



Christopher Colles, a native of Ireland, emigrated to America in 1771. Eliza, born in 1776, was the ninth child of Christopher and Anne Keough Colles. (By courtesy of New-York Historical Society Collections.)



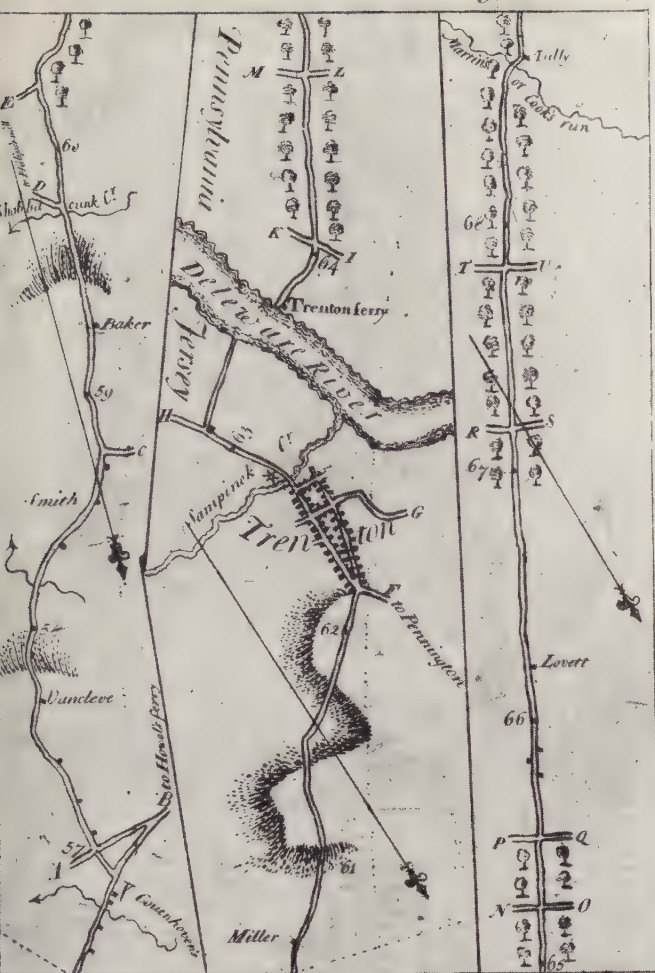


Plate 45 of Christopher Colles' *Survey of the Roads of the United States of America*, first parts of which were published in 1789. Cornelius Tiebout is listed as engraver on the title page of the *Survey*, but Eliza Colles may have assisted Tiebout in engraving some of the map plates. (By courtesy of Library of Congress.)

inexperience. The title page bears the engraving credit, C. Tiebout Sculp. None of the maps carry his name but it is believed that Tiebout was responsible for engraving at least some of them. There are, however, variations in technique and symbolism in the eighty-three plates contained in the most complete extant copies of the *Survey of the Roads*.

Benson Lossing, writing in 1884, gives a clue as to who the second engraver might have been. 'Colles', he wrote, 'constructed and published a series of sectional road maps which were engraved by his daughter'.<sup>3</sup> It is most probable that the daughter was Eliza who, in 1789, was but thirteen years old. We may postulate that Eliza initially observed Tiebout at work and, subsequently assisted the young engraver in preparing plates for the road book. When Tiebout left for more profitable employment, Eliza probably took over the task of engraving the map plates. The quality of the engraving as has been noted is mediocre, and suggests an inexperienced hand. The *Survey* was one of Tiebout's first jobs, and Eliza was, of course, just learning the trade.

Like the majority of Christopher Colles' projects, the *Survey of the Roads* fell short of its sponsor's objectives, and most complete extant copies include only eighty three plates, of a projected one hundred. As early as March 1790, Colles petitioned aid from the New York State Legislature to proceed with his road survey.<sup>4</sup> The petition was denied because the project was deemed to be of national rather than state interest. Several weeks later Colles, therefore, presented his plea to the Congress of the United States.<sup>5</sup>

The latter petition was referred to the Post Office Department, where it received a favourable report from the Postmaster General.<sup>6</sup> Unfortunately for Colles, however, the Congress did not act upon the Postmaster General's report because of more

# THE GEOGRAPHICAL LEDGER AND SYSTEMIZED ATLAS

BEING

AN UNITED COLLECTION OF TOPOGRAPHICAL MAPS, PROJECTED  
BY ONE UNIVERSAL PRINCIPLE, AND LAID DOWN BY ONE  
SCALE, PROPOSED TO BE EXTENDED TO DIFFERENT  
COUNTIES AS MATERIALS CAN BE PROCURED.

By CHRISTOPHER COLLES, OF NEW-YORK.

CONTAINING

- I. Alphabetical references for pointing out the situation of lakes, islands, shoals, mills, mines, churches, iron-works, forts, bridges, fords, ferries, country seats, extensive tracts of land, and other remarkable objects.
- II. An alphabetical index, referring to the different parts of the map, whereby any city, town, river, creek, island, lake, &c. can be speedily found by inspecting a very small space, without the pains of searching over the whole map.
- III. An actual survey of a number of roads, specifying the true situation of every river, creek, church, mill, bridge, ford, ferry and tavern thereon, and their distances in miles, exactly engraved upon copper.

NEW-YORK--Printed by JOHN BUEL, No. 24, Little N. Street.

—1794—

The title-page of Colles' *The Geographical Ledger and Systemized Atlas*, includes an outline of the intended contents of this aborted atlas. As noted, Colles planned to include plates of the *Survey of the Roads* in the *Ledger*. (By courtesy of Library of Congress.)

urgent and pressing demands on its limited financial resources. Notwithstanding the denial of aid, Colles continued the *Survey* project until 1791 or 1792. Tiebout had probably discontinued his association with Colles several years earlier, for he is known to have engraved landscape scenes and maps for several magazines between 1789 and 1793. In the latter year he went to London for further study under James Heath. It is likely, therefore, that responsibility for engraving some of the later plates of the road book fell solely upon Christopher's daughter, Eliza.

While still occupied with the *Survey of the Roads*, Colles embarked on another ambitious cartographic project, *The Geographical Ledger and Systemized Atlas*. This open-ended serial atlas, envisioned as ultimately embracing the entire world was copyrighted in 1794 by Christopher Colles. The publisher was John Buel of New York City. *The Geographical Ledger* was, regrettably, an even greater failure than the *Survey of the Roads*. Extant portions of the atlas comprise five sectional maps, which cover much of New England and most of New York State, a title page, some sixty-five pages of text, indexes, and references, and seven plates from the *Survey of the Roads*. Part III of the *Ledger*, as indicated on the title page, was to include 'an actual survey of a number of roads, specifying the true situation of every river, creek, church, mill, bridge, ford, ferry and tavern therein, and their distance in miles, exactly engraved upon copper.'<sup>7</sup> Colles had apparently hoped to salvage the *Survey* project by including the map plates within the *Geographical Ledger*.

Our interest with the *Ledger* is with the five maps, of which only the Library of Congress holds a complete set. The Library's Geography and Map Division also has twenty-one pages of the text, including the title page and *Survey* plates 40 through 47. The New York Public Library has sixty-five pages of text and index,





'Eliza Colles Scul' appears in the upper right corner of plate 1369 of *The Geographical Ledger*. It maps northern portions of New Hampshire and Vermont, and the northeastern segment of New York State. (By courtesy of Library of Congress.)

the most complete holding of this portion of the *Ledger*.

The five sectional maps are numbered 1369, 1458, 1459, 1548 and 1549. Plated 1369 and 1549 include the engraving credit 'Eliza Colles, Sculp.' The engraving style on maps 1458 and 1459 is remarkably similar to that on the maps that bear Eliza Colles' inscription. We may assume, therefore, that she also engraved

these plates. Map 1548 differs notably from the other four. The hill shading, for example, is on the western, or left, slopes, whereas on the other four maps the eastern slopes are shaded. There are also more names and fewer index letters on plate 1548, which was probably the last to be compiled and engraved. In the introductory pages Colles stated that, 'I have given this work the name of the

Ledger plate 1549, which maps southeastern New York State, including Long Island, southern Connecticut, and southeastern Massachusetts, also includes Eliza Colles' engraving credit in the upper right corner. (By courtesy of Library of Congress.)







The engraving style on Ledger plate 1548 differs from that on the plates engraved by Eliza Colles. The engraver of plate 1548 is unknown. (By courtesy of Library of Congress.)

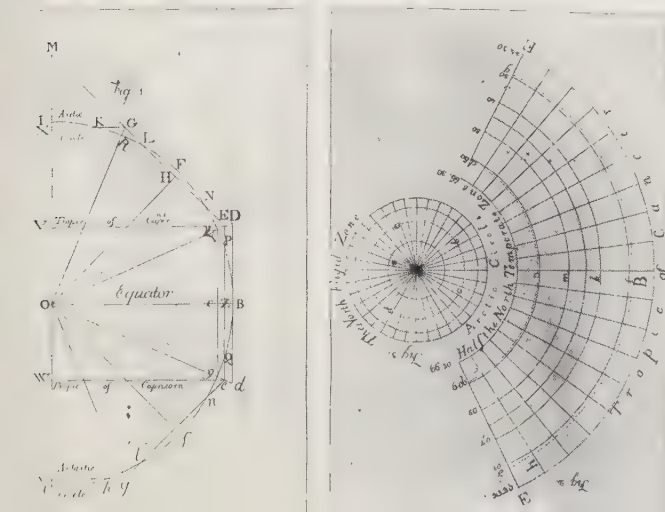
*Geographical Ledger*, as the situation of places can be found (by means of the index and references) as speedily as a merchant can find any particular account in his ledger.' It is possible that purchasers of the early sheets had difficulty mastering the complicated indexing system and Colles had, therefore, placed more conventional names and symbols on plate 1548.

Eliza Colles' credit also appears on the drawing which explains the projection that is used for the maps in the *Ledger*. Four pages in the introduction are devoted to explain the projection. In part it states that 'it may be easily understood that a piece of paper may be lapped around a cone, if therefore the form and dimensions of a cone be duly proportioned to the globe, a map may be constructed in the form of a ladies fan which will perfectly coincide with the cone, and very nearly represent that portion of the earth represented by the temperate zones.'

The quality of engraving on the *Ledger* maps is superior to that on the *Survey* plates. If Eliza was, therefore, the engraver of some of the road book maps, as we have assumed, she had, obviously, perfected her technique by the time she prepared the *Ledger* plates, probably early in 1794. She was then eighteen years old. We do not know who engraved *Ledger* map number 1548 if, as seems likely, this plate was not cut by Eliza Colles.

Apart from her engraving of the *Ledger* maps, of which there is

Eliza Colles was also the engraver of the graphs which explain the projection used for the maps in *The Geographical Ledger*. (By courtesy of Library of Congress.)



positive evidence, and her possible preparation of some plates for the *Survey of the Roads*, we have little information about Eliza Colles. Her early childhood was, unquestionably filled with tribulations and uncertainty in the years when, with her parents, she was in exile. Following the family's relocation to New York City, in late 1783 or early 1784, she may have been exposed to some rudimentary schooling. She was scarcely in her teens, however when she was learning the engraving trade, and assisting her mentor, Cornelius Tiebout, in preparing copper plates for the road book maps. This task may have continued until the early 1790s, following which she busied herself engraving maps for her father's *Geographical Ledger*. The latter work, in its incomplete form, was submitted for copyright on June 7, 1794. Whether or not all five of the maps were completed at this time we do not know.

We are also not informed how Eliza spent the years after 1794 or 1795. Family records indicate that Eliza Colles died in 1799, at the early age of twenty-three years.<sup>8</sup> It is likely that she was one of many victims of yellow fever, which was prevalent in New York, and other major American cities, in the 1790s.

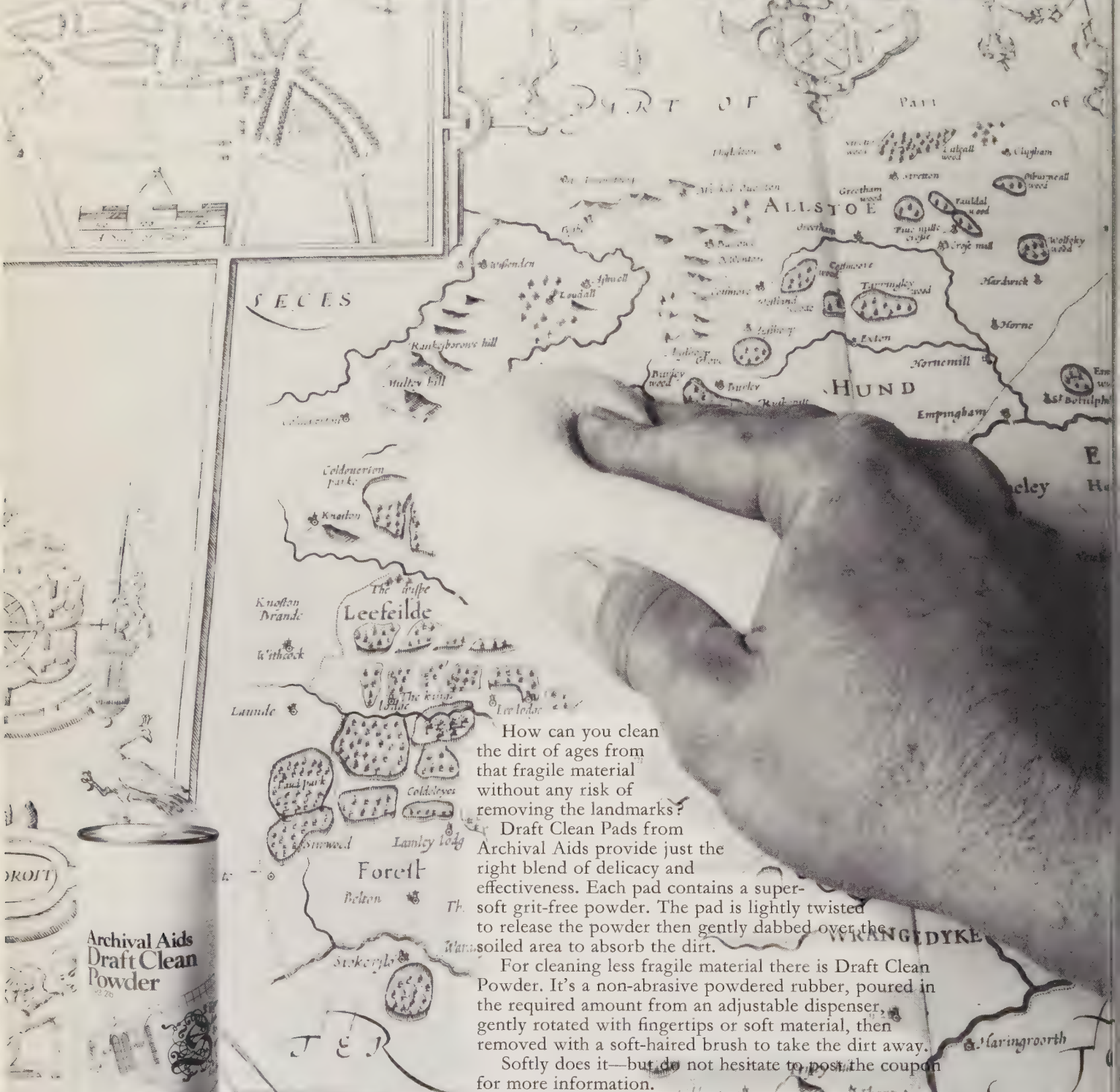
Though her life and career were painfully brief, and she shared, with her inpecunious and ill-fated parents, many hardships and misfortunes, Eliza Colles has a place in history as the first of her sex in America to engage in the craft of map engraving which for some four or more centuries was heavily dominated by men.

## References:

- 1 More complete information on the life and career of Christopher Colles will be found in the facsimile edition of *A Survey of the Roads of the United States of America 1789*, by Christopher, edited by Walter W. Ristow, and published by the Harvard University Press, Cambridge, Mass., in 1961.
- 2 Information about the Colles family is derived from manuscript records, compiled by Richard Colles Johnson, and preserved in the Newberry Library, Chicago, Illinois.
- 3 Benson Lossing, *History of New York City* (New York, 1884), p.75.
- 4 New York State Assembly, *Journal*, March 13, 1790.
- 5 US House of Representatives, *Journal*, 1st & 2nd Congress, I, 185 (March 30, 1790).
- 6 *American State Papers*, Class VIII, Post Office Department, *Documents Legislative and Executive of the Congress of the United States 1789 to 1833* (Washington, 1834), p.3. The original manuscript letter, signed by Postmaster General Samuel Osgood, is preserved in the US National Archives.
- 7 For more details on the *Geographical Ledger* see Walter W. Ristow, 'Aborted American Atlases', in *The Quarterly Journal of the Library of Congress*, vol. 36, Summer 1979, p.320-345.
- 8 Information in letter from Richard Colles Johnson, dated October 16, 1978.



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# The Cleaning and Restoration of Maps

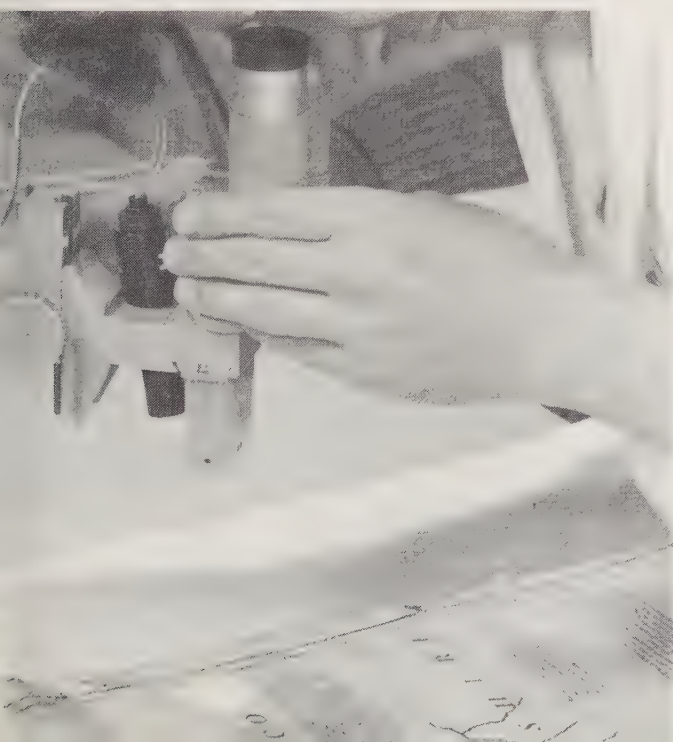
by Robert C. Akers

*Principal Lecturer in charge of Bookbinding and Paper Conservation at the Camberwell School of Art and Craft in London, Bob Akers, gives a step by step guide to cleaning and restoring maps. But he asks readers not to attempt do-it-yourself restoration unless you are really sure you know what you are doing. Irreparable damage can be caused.*

MANY ANTIQUE AND RARE maps have miraculously survived the ravages of time and other misfortunes and remain to this day in fine, almost mint condition. Unfortunately, many more have become dirty and damaged by neglect and ill-treatment and need to be restored in order to ensure that they can be passed on for future generations to enjoy.

Conservation is a comparatively new profession, having developed to meet the growing demands from curators, collectors and dealers keen to keep their collections in the best possible condition. During the last few decades there has been a remarkable increase in knowledge of the physical and chemical properties of materials and of conservation techniques and it is

1 The surface of a map being examined with the aid of a binocular microscope.



now possible for a knowledgeable and skilful conservator of works of art on paper to arrest most of the processes of paper deterioration. However, there are a number of different approaches to the methods of both restoration and conservation.

To conserve a map, chart or print is to keep it from harm, decay or loss. Conservation involves the use of chemical and physical procedures both in treatment and storage to ensure the preservation of the item in its present condition, no attempt being made to disguise the repair by painting, printing or colouring-in. This code of ethics applies especially to archival materials where the historical evidence is of paramount importance. Restoration means bringing the map or chart back to its original appearance and this is often considered a natural corollary to the processes of conservation. Restorers generally believe that bare conservation is aesthetically disturbing especially when the item is to be mounted and displayed and use every possible means to make the repair as invisible as possible.

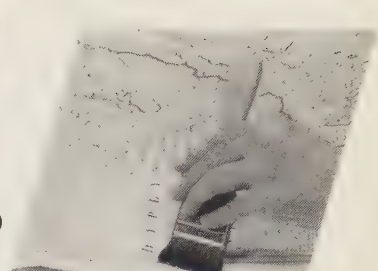
Unfortunately, the difference between conservation and restoration is not always so clear-cut. The two approaches often overlap and the finished result will depend upon the wishes of the owner or custodian and the personal integrity of the conservator or restorer. The most important consideration should be the long term well-being of the map but regrettably this is not always the case. Some owners and dealers only wish for any dirt or stains to be quickly and inexpensively removed in order to obtain the best possible price in the sale room. It is not unusual for an owner or dealer to ask for more than complete restoration and for the map to be deliberately improved beyond its original appearance often with the danger of losing the historical evidence and perhaps creating false ideas about the artist's original conception.

The cleaning and restoration of maps, charts, and other works of art should, ideally, be undertaken by a skilful and knowledgeable conservator or restorer but it is not unusual for collectors and dealers to undertake some of the less complicated 'first-aid type' basic processes of cleaning and flattening. This is an age of do-it-yourself and some enlightened amateurs have proved capable of undertaking some conservation work on their own behalf. The most important pre-requirement is to know your limitations and be willing to learn by testing and experiment. Conservators are frequently faced with the task of reversing unskilled and clumsy attempts at cleaning and repair and

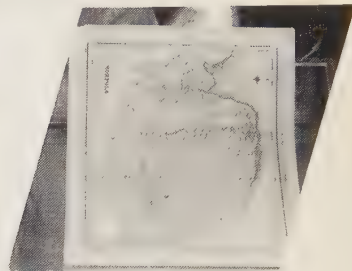
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sometimes reluctantly become involved in almost impossible rescue operations. It is helpful to develop an analytical approach and learn about paper and various media and how they react to different treatments and it is sensible to experiment on blank pieces of antique paper and gradually advance to practice on small maps and prints of little or no value.

### Examination

All maps must be subjected to a thorough examination before being removed from their mounts and before cleaning and restoration. This is to obtain as much information as possible about the condition of the mount and the method used to attach the map to it; the type and condition of the paper or support upon which the map is drawn, printed or painted; the condition of the ink and its binding agent; the composition of the colouring pigments and their degree of stability. This information is vital when deciding the choice and extent of treatment necessary to arrest most of the processes of deterioration. This is the difficult stage, when professional conservators have a tremendous advantage over the beginner or amateur. Firstly, both sides of the map should be subjected to a searching visual inspection. This should be done under very good lighting augmented, if necessary, with an adjustable lamp to provide a raking light to show-up any surface inconsistencies. A low-powered magnifier or binocular microscope can also be used to assist in identification of the various graphic techniques used in the original production and any materials added later. Unmounted maps can be placed on a light table for additional scrutiny. The underneath light source helps in detecting weak areas in the support and quickly exposes previous attempts at restoration.

Most conservators and restorers keep a written technical record for each job - a description of the map, dimensions, materials, paper surface, watermarks, media, coatings and a full description of the condition when received. With more important and valuable maps the technical description is supported by photographs. These can prove helpful in recording the condition of the map when it arrived at the workshop. Photographs can also prove helpful in settling any arguments about missing fragments or the amount of work carried out. Also included in the examination are a few chemical tests. The pH of the paper support is ascertained using a pH meter fitted with a flat surface glass electrode. The information provided by this test will help the conservator decide if the map needs to be de-acidified. It is current practice among conservators to de-acidify paper which has a high acid content; however, the effect that this may have on the pigments has to be fully considered.

The solubility of the inks and pigments are also tested at this stage to ensure that any treatment prescribed will not damage them. A small, pointed, camel haired brush, is made wet but not dripping with water or solvent, and a suitably inconspicuous part

of the map is lightly brushed in such a way as to avoid an excess of water or solvent. The moistened area is blotted dry and then examined through a low powered magnifier for signs of feathering, bleeding, discoloration or disintegration. The conservator will carefully consider all the information from the examination of the map before deciding a course of treatment. Examination should continue throughout the process of conservation especially after the map has been removed from its mount, support or backing.

### Removal of Old Mount

A large amount of conservation work involves the removal of old board mounts, paper or linen backings. Large maps usually arrive for conservation backed with linen or paper and smaller maps that have previously been framed arrive attached to a board mount. These can be attached in a number of ways, glued completely to the back board of the mount; glued around the edges and sandwiched between the front window and back board of the mount; partially held to the back board with spots of glue; or strips of adhesive tape around the edges. Only recently has conservation quality acid-free mounting board become generally available. Practically all the early board mounts were made of unrefined ground wood or straw which are usually highly acidic and can cause discoloration and deterioration so they must be removed. The starch and animal glues used in the past by some picture framers can also deteriorate causing discoloration and making the removal of the mount necessary.

Some mounts have printed inscriptions, sale room or collectors' marks plus other evidence which forms part of the map's historical background and every effort should be made to preserve these.

The removal of a board mount can be a difficult and lengthy process. In most cases it has to be skilfully removed by hand without the aid of water or solvents which might disturb the inks, pigments or surface of the paper. The map is placed face down on a smooth clean surface with the mounting board uppermost. Using extreme care and constant observation the board is painstakingly pared away, using a sharp small bladed knife or scalpel. Mounting boards are usually composed of layers of board laminated together. Once exposed, the top layers of the board can usually be eased away with the knife and fingers while the free hand holds the map flat. This takes a considerable amount of time and special care needs to be exercised at the dangerous stage when the layers nearest to the surface of the map are reached. Always pull or lift the board away from the map, not the map from the board or serious injury may be caused to the map. Any remaining particles of board and residue of adhesive should be carefully scraped off. Very thin layers of adhesive that are not likely to present problems can remain.

A quicker method sometimes used to release the map from the mount is immersion or saturation in water or solvent. Obviously,

2 A soft long-haired brush being used to remove loose particles of dirt from the map edges.





This method can only be used on maps that after testing have proved capable of withstanding this rather drastic treatment. Unfortunately, immersion methods run the risk of subtle changes taking place in the texture of the print and paper, so on balance it is preferable to remove as much as possible of the mount by the dry method.

### Dry Cleaning

Dirt and dust on the surface of maps, charts and prints can spoil their appearance. The surface of both paper and parchment quickly becomes dirty by handling, contact with an unclean surface or, just by being left unprotected in a polluted atmosphere. Dirt has a remarkable ability to penetrate frames and storage containers and superficial dirt, which is only lightly ingrained among the fibres of the paper, can be removed by careful dry cleaning. More stubborn stains and deeply ingrained dirt may only partially respond to dry cleaning and may need expert attention. Dry cleaning should only be attempted if the paper or parchment is sufficiently strong to withstand the treatment. No attempt should be made to dry-clean damp or moist paper or parchment as the dirt will tend to smear and become more firmly ingrained.

For dry cleaning the map should be placed on a clean flat smooth surface, ideally one covered in a cleanable material such as plastic laminate. As a first treatment loose surface dust and dirt can be removed by carefully brushing across the surface of the map with a clean, soft, long-haired wide brush using short gentle strokes. If some dirt still remains the next step is to sprinkle thickly a quantity of Draft Clean powder on the soiled areas. (Draft Clean powder is specially formulated to clean drawings and has the appearance of finely ground particles of rubber.) Rub it gently over the soiled areas using the soft brush or the tips of the fingers. Providing the paper will withstand more vigorous treatment any persistent dirt that has worked into the paper can be removed with a soft clean eraser. This treatment should not be used on the surface of the print or ink area but only on the margins and large blank areas. Hold the paper secure and flat with the fingers and work on a small area at a time treating the surface uniformly. Dry cleaning is a lengthy process and if not carried out carefully and methodically the finished result will be disappointing.

The back of the map should also be cleaned providing that the printed front surface will not be disturbed by the underneath pressure of the brush or eraser. When cleaning is complete all traces of loose dirt and eraser residue should be removed with a soft long-haired brush.

### Flattening

Maps differ from prints and drawings in that they are scientific measuring instruments designed for use, not simply to be admired. Most maps were originally folded or rolled for ease of handling. Those originally bound in books and atlases usually have one or more folds to allow them to be contained in a convenient format. Maps easily become creased by mishandling or in transit. Those that are rolled and placed in cardboard tubes for despatch through the post can arrive rather like watch springs and need to be flattened.

Creases, folds and other distortions spoil the appearance of a map but can usually be removed by gradually increasing the moisture content of the paper support until the cellulose fibre swells and it becomes relaxed, followed by drying under carefully controlled conditions. No attempt should be made to flatten maps on vellum or parchment which need expert treatment.

The map is placed face down on sheets of dry clean blotting paper on a flat surface sufficiently large to support the whole map. Moisture is gradually applied to the back of the map using a small hand sprayer fitted with a very small nozzle which produces a fine mist, not large droplets. The amount of moisture required to relax the map will depend upon the thickness, type and condition of the paper support. Careful observation is necessary especially with the thinner papers. It is helpful to practice first on a piece of paper of a similar type and thickness.

When the moisture has been absorbed and the map has started to relax and become pliable it is placed between a number of layers of good quality, clean, dry blotting paper. A flat wooden board larger than the map is placed on top and a few light weights are

# Cleaning and Restoration of Maps

added to ensure that the map is held flat whilst drying. Do not be tempted to apply too many weights or place in a press or the original texture of the map may be lost. The drying process cannot be hurried and requires considerable attention. Edges of tears and cuts need to be fitted together in anticipation of the repair operations. It is necessary to change the blotters frequently for dry ones especially during the first stages of drying. This hastens drying and allows the paper support to contract naturally and prevent unwanted distortion. It also provides an opportunity to check that there is no tendency for any residue of adhesive to be reactivated by the moisture and cause the map to adhere to the blotters. It is important that the map support dries evenly. If one area dries quicker than another cockling may occur. If the creases and folds are not fully removed at the first attempt the process can be repeated. An alternative method to the spray is careful use of a moistened sponge applied to the back of the map through a piece of wet-strength tissue or by placing between a sandwich of clean blotters that have been slightly moistened but not saturated. Great care must be taken not to over-moisten.

### Washing

Maps that have become badly discoloured can often be improved by immersion in a bath of water. Washing removes minor dirt, glued backings, adhesive residues, reduces water staining and has the effect of slightly improving the condition of the paper support by removing some of the free acid and degraded cellulose. It also freshens the appearance of a map and removes creases and wrinkles. Paradoxically, having listed all the reasons why maps are washed, it now needs to be emphasised that this method of treatment should be avoided, except by experts, whenever possible. It can change the character of the map and on balance it is preferable to have a slightly dirty or stained map than one that by over washing has lost most of its character and original texture.

The main problem is choosing maps that will withstand the rigours of immersion in water without damage or loss. Coated, heavily sized, coloured and modern papers containing mechanical wood are not suitable nor are those maps with inks and pigments that are soluble in water. Paper usually becomes extremely fragile and weak when saturated with water and can easily become damaged.

Washing is usually carried out in a purpose-built shallow tray made from stainless steel or plastic. Ideally it should be at least 150mm (6 inches) larger than the map in each direction to enable the map to be handled and removed without too much risk of damage. The tray is filled with filtered tap or de-ionized water with a sheet of thin and supple plastic film or wet-strength paper cut slightly larger than the map in the bottom of the tray. The map is carefully lowered onto the surface of the liquid face-up and allowed to sink below the surface. It may have to be held flat to overcome the initial tendency to curl. It is left in the water until fully saturated and most of the stains and dirt have disappeared. The length of time needed will depend upon the thickness, sizing and condition of the support. Throughout the complete process it needs to be kept under constant observation. Badly soiled areas can sometimes be improved by gentle brushing with a very soft haired brush. Some conservators add a very small amount of non-ionic detergent to the water at this stage but opinions vary as to the effect this may have on the paper fibres. After washing, the map is removed from the bath using the piece of plastic or wet-strength paper as a support. The map is lifted diagonally and



allowed to drain.

The remainder of the water is removed by placing the map between dry, clean blotting paper and for final drying and flattening is placed between layers of clean blotting papers with a board larger than the map on top. Sufficient weights are applied to ensure the required degree of flatness. As with the flattening the drying process needs to be carefully controlled. The blotting papers need to be frequently changed especially during the initial stages of drying. It is important that the map dries evenly, to avoid cockling. The paper is allowed to dry slowly and naturally until its moisture content returns to equilibrium with the surrounding atmosphere.

### Bleaching

Not all stains will be removed by washing in water and some of the more resistant stains can be treated by bleaching. Early books on restoration often advocate bleaching as a panacea for all types of staining and discoloration and treat it as a straightforward process but do not mention the need to remove bleaching compounds from the paper afterwards by adequate washing. If not thoroughly removed the bleach may continue to react and cause eventual destruction of the paper. Recent research into the bleaching of paper has confirmed this and current feeling is that bleaching should only be carried out if the stains disfigure and ruin the visual appearance of the map.

A number of chemical compounds are available to restorers for the bleaching of paper but used most widely now are sodium hypochlorite, chloramine-T, and calcium hypochlorite. The choice of which to use can prove difficult and the effect of the bleach on the paper, pigments, media and inks has to be fully considered.

Bleaching usually means the map is immersed in an aqueous solution and thoroughly washed in running water afterwards. Maps with soluble inks and pigments cannot be treated this way and alternative methods have to be used which may include spot or local application or the use of a gaseous bleach. However, the latter can be very hazardous and few restorers have the equipment essential for this method.

In addition to the possible deterioration of the paper support by bleaching there is the danger of radically changing the tonal values of the print. Early hand-made papers were never snowy-white like modern papers.

### Spot Treatments

Small isolated marks, stains and pressure sensitive tape are usually removed by localised or partial treatments. This treatment is also used on maps that cannot be totally immersed in water or solvent

because of the fugitivity of the media or the condition of the support. Spot treatment limits some of the dangers of complete immersion in water or solvent but the risks are still considerable. Colour changes can take place and the paper support can become distorted by uneven expansion. The bleach or solvent is applied to the back of the map by brush, or cotton bud. The area treated being dried as soon as possible with blotting paper.

Individual fox marks can be removed or reduced by spot bleaching but the use and amount of the bleach has to be carefully restricted to the area of the stain otherwise colour changes may occur away from the stain. The disadvantage of this method is that it does not allow for adequate washing for the removal of the bleach which may continue to react. Grease and oil stains can also be reduced or removed by spot treatment. The restorer needs to have a range of reagent grade solvents such as toluene, acetone and hexane. Solvents also remove varnish originally applied to many maps to protect the surface. Varnish darkens with age and causes the paper support to become brittle. The removal process is slow and only a small area can be worked on at a time with extreme care being taken not to disturb the inks or colours. Rarely is it possible to remove all the traces of the varnish especially if it has soaked into the surface of the map. Pressure sensitive tapes, which are a constant problem, can also be removed with solvents.

### Repair

Damaged maps can be repaired in a number of ways, the method used being determined by the size, type, usage and storage. An early finely printed and coloured map that is to be mounted for display requires very different treatment from a large tithe map that is to be subjected to frequent handling and has to be rolled-up for storage.

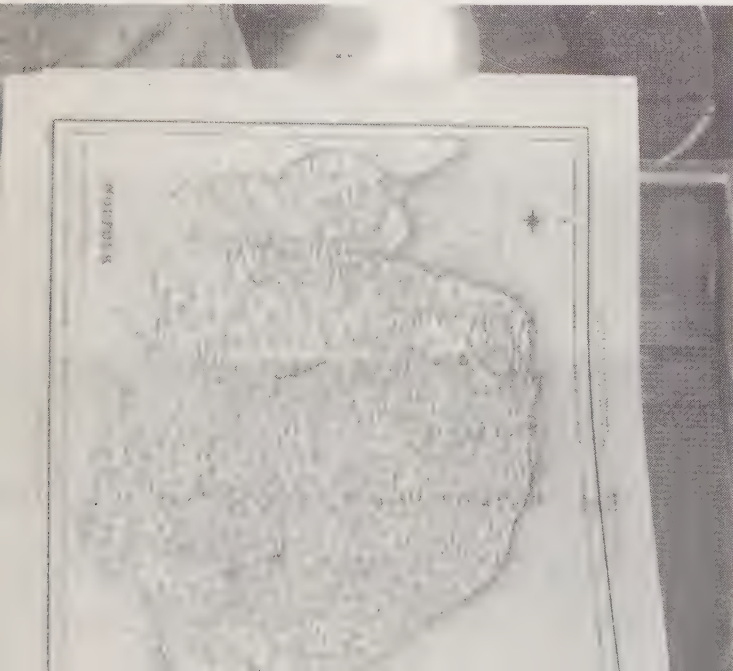
Early hand-drawn, finely printed, coloured and illuminated maps and charts are works of art and should be repaired and restored as unobtrusively as possible. To repair paper invisibly requires practice, patience and skill. The restorer needs to have a large selection of different types of hand and machine-made repair papers of all ages, colours, textures and thicknesses, both laid and wove. Small tears, the edges of which can be perfectly fitted together and overlap without any gaps, are probably the easiest to repair. The work is carried out on a light table with a smooth clean surface. Using a fine pointed watercolour brush, both edges of the tear are coated with paste, carefully positioned and fitted together with the surplus adhesive removed with blotting paper. The completed repair is then dried between a sandwich of blotting paper. It is sometimes necessary to strengthen the repair by attaching a narrow strip of Japanese Mulberry paper with the fibres overlapping the join to form a bond. Those tears or cuts that do not overlap leaving a narrow gap between the two edges have to be joined by a narrow strip of matching repair paper that has been pared very thinly and cut to shape slightly overlapping on each side of the tear.

Holes or missing portions are repaired by filling with a piece of matching paper laid or wove of identical thickness, colour, texture, opacity and condition of the original. The map is placed face down on a light table and the edge of the missing area is reduced in thickness by paring with a small bladed knife or scalpel making sure that none of the front surface of the original is removed. A matching piece of paper is placed over the hole and the outline of the missing portion is traced on the repair paper with a pointed plastic scribe. The repair paper is placed on the light table and cut to a shape slightly larger than the hole to be filled. The edges are then chamfered by paring. The amount of paper removed is about the same as that pared from the map so that there is no unevenness when the repair patch is pasted in position. The patch is placed on the missing portion of the map and checked for position, thickness and the amount of overlap. The edges of the hole and repair patch are lightly pasted and fitted together making sure that the overlapping join is equal around the edge of the missing area. The repair is then sandwiched between two sheets of blotting paper and gently pressed in place with a small burnisher to remove any excess of adhesive. The blotters are changed and the repair left to dry under light pressure.

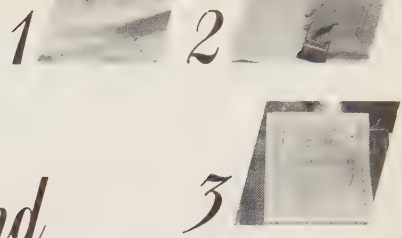
Where margins have been cut away or lost they need to be replaced. The procedure is almost the same as for repair of a missing area except that the margins are added by attaching a

3

Map being removed from the washing bath on a plastic film support.







single piece of matching repair paper around the outside to frame the edges of the map. The repair paper is cut to size and chamfered by paring to give an overlapping join to the map. Some allowance has to be made for possible dimensional changes when the paste is applied. The paste adhesive used to produce invisible type repairs has to meet stringent requirements. It should be colourless, not stain or discolour with age, and be easily reversed. Most restorers use a pure starch or similar adhesive made up to their special requirements.

An alternative method of repairing small holes and gaps in paper supports is by applying paper pulp. In simple terms a piece of repair paper, with similar fibre furnish characteristics to the original, is torn into small pieces and soaked in water. Then the pieces are placed in a small electric blender for a few seconds which reduces the paper to pulp. Now dyes can be added to match the colour of the original and an adhesive added which makes for a more even dispersal and formation of the fibres. The pulp is applied to the damaged area making sure that the density is the same as the original. The moisture is drained away and the pulp repair allowed to dry under controlled conditions. This method of repair does away with the long task of having to select a matching piece of repair paper. This method has great potential but does not always give the highly professional finished appearance demanded by some restorers.

Maps on very thin, weak or damaged paper supports often need to be strengthened by an operation called backing. This involves attaching a layer of new material to the whole rear surface of the map but this method should be used only as a last resort. Backing, like many other operations, can change the character of the map by reducing the depth of impression and obscuring watermarks and other evidence. The paper used for backing should be flexible and resistant - often a thin Japanese Mulberry tissue toned to match the original is used. Although thin this adds considerable strength to the support and if attached correctly is almost unnoticeable. When maps are repaired to archival conservation standards the main object is to add strength to the map so that it will be able to withstand heavy and frequent handling. No attempt is made to disguise the repair, the nature and extent of which should be clearly visible. Large maps are usually backed with thick hand or mould made rag paper, woven linen or blind holland. In addition, strips of repair paper are pasted around and slightly overlapping the front edges to form a protective frame against further damage. If the surface of the map is damaged and fragmentary and the repair paper cannot be attached without covering some of the image, silk chiffon lisse is pasted to the front of the map. This almost transparent material holds and protects the surface when the map is rolled around a cylinder for storage. Unfortunately, silk chiffon lisse does reduce legibility and is therefore not used on maps that are to be mounted and framed for display.

#### De-acidification

The degree of acidity and alkalinity is measured in terms of pH on a scale 1 to 14. pH 7 is neutral. The pH of a map with a paper support should ideally be between 6 and 9 but many will be found to have a pH below 6. Washing will remove the free acid from most papers but this will not leave any residual buffer to combat any subsequent acid absorbed from a polluted atmosphere. De-acidification is a conservation process in which an alkaline buffer is introduced to the paper. Maps can be de-acidified by immersion in, or by being sprayed with a solution of calcium or magnesium carbonate. Coloured maps should be tested beforehand because some colours can change dramatically when in contact with an alkaline.

#### Re-sizing

Early hand and machine made papers were sized with gelatine or starch during manufacture to produce a suitably receptive surface for writing or printing. Unsized paper is similar to blotting paper. Ageing, washing, bleaching and other treatments all combine to remove the original sizing from the surface of the paper resulting in a loss of body. To re-size a solution is usually made from photographic grade gelatine dissolved in warm water. The strength of the solution required depends upon the nature and condition of the paper. The size is brushed or sprayed onto the

# Cleaning and Restoration of Maps

front and back of the map which is then allowed to dry flat on a support.

#### Facsimile Work

The final stage in the restoration of a map is the reconstruction of the missing image areas which involves toning, retouching, colour mixing and matching. Not all maps are subjected to these restoration techniques. No compensation for loss is made on maps conserved to archival standards. Any interference with the image area would certainly diminish the impartial historical evidence provided by the map. The missing areas are left plain and bare. Most people would agree that bare conservation is aesthetically displeasing especially if the map is to be displayed. The intention of facsimile work is to reduce the distraction caused by the damage areas. Unsightly gaps are blended in by skilful retouching. The amount of retouching on maps owned by a museum is usually decided after consultations between curator and restorer. Private restorers working for collectors and dealers usually have a free hand and the amount of retouching will depend upon personal attitude. Normally compensation for lost media is kept to a minimum. Skilled facsimile work should always be discernable and no attempt made to improve the original work. Broken lines in engravings are usually reconstructed with ink or watercolour. A very fine pointed watercolour brush is used and the lines are drawn thinner and fainter than the original and gradually built up until the desired result is obtained. To match the original colouring the restorer needs a wide range of good quality watercolours, pastels and other colouring media. Colouring of missing areas is sometimes carried out with a dry media such as pastel to avoid any chance of deception. Matching the tone of the original can prove difficult because colours tend to age and fade differently.

The aim of this article is to draw to the attention of those responsible for the care of maps the techniques, advantages, limitations and risks of both conservation and restoration. Those wishing to try their hand at restoration will now be aware that considerable experience and training is necessary to be able to prescribe and carry out treatments that will ensure maps survive for future generations to enjoy. Special equipment and adequate working space is essential for even the most basic tasks.

The first step for most people who have maps in need of restoration is to find a competent and responsible restorer, preferably one recommended by a museum or gallery. He will be able to discuss possible treatments and offer advice on how to prevent further deterioration. Even then it is necessary to ensure that rare and valuable maps are not simply abandoned to the personal wishes of the restorer. A passive conservation approach which will keep the map in its present condition is often preferable to attempts at complete restoration which may destroy so much of the historical evidence provided by the early mapmakers.

#### Further reading:

British Standards Institution BS 4971: Part 1: 1973. 'Recommendations for Repair and allied processes for the conservation of documents.'

*The Paper Conservator*. Volumes 1, 2 and 3. Published by the Institute of Paper Conservation.



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# The Blaeu atlas of Scotland

*The whole is worth more than the sum of its parts*

by Jeffrey C. Stone of the Department  
of Geography, Aberdeen University

WHEN PART FIVE of Blaeu's *Atlas Novus* was first published in 1654, Scotland became one of the best mapped countries of the contemporary world. Some twenty thousand Scottish place names are located on the thirty-six regional and three national maps, a remarkably detailed record for a small and poor country in the sixteenth century.

The maps are well known as fine examples of the engraving and printing skills of the house of Blaeu and the story of how this extraordinary cartographic achievement came about has been carefully researched, although our knowledge of the atlas is still incomplete. The original survey work by Timothy Pont in the late fifteenth century and the subsequent revision by Robert Gordon is described by the Secretary of the Royal Scottish Geographical Society in *The Early Maps of Scotland*, vol. I (Edinburgh, 1973). The atlas itself, and all of its variant states, was a particular interest of the late R.A. Skelton, who describes it very fully in his *County Atlases of the British Isles 1579-1703* (London, 1970).

However, relatively little work has been done on the detailed content of the text and the maps in the atlas. This is unfortunate, because the long period of gestation (from the beginning of survey work on the ground in 1583 to first publication in 1654), together with the fact that Pont and Gordon, the two main cartographic contributors, worked at different times, means that the actual landscapes which the various maps portray may not be contemporaneous, but may vary by as much as fifty years or more.

There are several sources of evidence of the authorship and date of compilation of each regional map. The incomplete collection of extant manuscript maps by Pont and Gordon in the National Library of Scotland is one such source, but there are also clues in the atlas itself. Skelton provides a descriptive list of the maps and adds that they 'are arranged in the order: southern



Acknowledgement to Pont on the map of Teviotia. (By courtesy of the University of Aberdeen Library.)

Scotland, eastern and central Scotland, northern Scotland, the western and northern isles.' A glance at the index page confirms this arrangement, but more detailed examination reveals additional features of the arrangement of the maps in the atlas.

If the regional maps are numbered in the order of their insertion in the atlas and then the extent of each map is plotted on a map of Scotland, the collection breaks down into a series of small groups of maps. The first five maps, 'Teviotia', 'Tvedia', 'Lauderdalia', 'Mercia' and 'Lothiana & Linlitquo' form a

## INDICE & ORDRE DES CARTES DE LA CINQUIEME PARTIE DE L'ATLAS, comprenant L'ESCOSSE & L'IRLANDE.

<b>A</b> lbion & Hibernia Insulae, cum minoribus adjacentibus. 9	Sterlinensis Praefectura, vulgo <i>Sterlin-shyr</i> . 93
Scotia antiqua. 11	Fife Vicecomitatus, vulgo <i>Fife</i> . 99
Scotiae Regnum, cum Insulis adjacentibus. 17	Fife pars Occidentalis. 101
Teviotia, vulgo <i>Tivedail</i> . 39	Fife pars Orientalis. 103
Tvedia, vulgo <i>Twee-dail</i> , cum Vicecom. Emerico Forellae. 41	Aberdonia & Banfia. 115
Lauderdalia, vulgo <i>Lauderdail</i> . 43	Braid-Albin, Atholia, Marria superior, Badenoch, Strath-Spea, & Lochabria. 117
Mercia, ou le Vicomte de Berwic. 45	Lorna, vulgo <i>Lorn</i> . 119
Lothian & Linlitquo. 47	Extima Scotiae Septentrionalis Ora, ou les derniers Confins de l'Ecosse, sous lesquels sont comprises les Provinces de Ross, de Sutherland, de Caithness, de Strathnaver, & autres. 121
Lidalia, vulgo <i>Lidisdail</i> . 53	Moravia, vulgo <i>Murray</i> . 127
Eria & Efeia, Scotis <i>Eusdail</i> & <i>Eskdail</i> . 55	Southerlandia. 133
Annandae Praefectura, vulgo <i>The Stewartrie of Annandail</i> . 57	Strath-navernia, vulgo <i>Strath-navern</i> . 137
Nithia, vulgo <i>Nidisdail</i> . 59	Cathenesia, vulgo <i>Caithness</i> . 141
Gallovidiæ, vernacule <i>Galloway</i> . 61	Aebudæ Insulae, five Hebrides. 143
Gallovidiæ pars occidentalis, in qua Vicecom. Victorienfis cum Glenlucefi Regalitate. 63	Iura Insula. 145
Gallovidiæ pars media. 65	Ila Insula. 147
Praefectura Kircubrienfis. ibid.	Mula Insula. 149
Carricta meridionalis. 67	Insulae quaedam minores, ou <i>Rume</i> & autres Iles. 151
Carricta borealis. ibid.	Skia vel Skiana. 153
Coila, vulgo <i>Kyle</i> . 71	Vistus Insula, ou les Iles au Mdy de Vifse. 155
Cuninghamia. 73	Leogus & Haraia, vulgo <i>Lewis and Harray</i> . 157
Knapdalia, vulgo <i>Knapdail</i> . 75	Orcadum & Schetlandiæ Insulae. 159
Cantya, vulgo <i>Cantyr</i> . 77	
Aramia, vulgo <i>the Ile of Aran</i> . 79	
Bathe Insula, vulgo <i>the Ile of Bute</i> . 81	
Glottiana Praefectura Inferior, ou <i>Cluydsdale m-fecture</i> , avec la Baronie de Glifcou. 83	
Glottiana Praefectura Superior, ou <i>Cluydsdale superieure</i> . ibid.	
Dunbartonia, vulgo <i>Dunbarton</i> . 85	

The index page of Blaeu's *Novus Atlas* or *Theatrum Orbis Terrarum* (French edition) published in 1654. (By courtesy of the University of Aberdeen Library.)

### L'IRLANDE.

<b>H</b> ibernia, vulgo <i>Ireland</i> . 1
Momonia, Anglice <i>Monmouth</i> . 9
Lagenia, Anglice <i>Leinster</i> . 15
La Baronie d'Udrone au Comte de Cathelagh. 17
Connachtia, vulgo <i>Connacht</i> . 17





Lothian and Linlithgow was one of the earliest maps to be engraved and has its own stylistic characteristics, including roads. Note 'Edenburgh' at top right. (By courtesy of the University of Aberdeen Library.)



Portrait of Sir Robert Gordon from an original painting in the College of Aberdeen. It is dated 1798. (By courtesy of British Museum. Photograph by John Freeman.)

contiguous group running north from the border to the Firth of Forth. The next four maps, 'Lidalia', 'Evia & Escia', 'Annandiae', and 'Nithia' form a second group which returns to the border for its starting point and extends west to Nithsdale. All of Galloway west of Nithsdale is next included on a small scale map ('Gallovodia'), but this is followed by three larger scale maps, 'Gallovodiae pars occidentalior', 'Gallovodiae pars media' and 'Kircubriensis' which span the area of the small scale map from west to east. Thereafter, there is a fourth group of four

overlapping maps, 'Carrieta meridionalis', 'Carrieta borealis', 'Coila', and 'Cunninghamia' which progresses northwards across Ayrshire. The sequence then jumps in a northwesterly direction to the map of 'Knapdalia', which is the first of four adjacent maps to cover insular and peninsular southwest highlands, including 'Cantyna', 'Arania' and 'Buthe'. So far, we have five separable clusters, all with four maps, except for the first which has five.



A part of Annandiae showing enclosure symbols of uncertain meaning or reliability. (By courtesy of University of Aberdeen Library.)



The next and sixth group of contiguous maps starts in lower Clydesdale ('Glottiana ... Inferior'), moves south east to upper Clydesdale ('Glottiana ... Superior') and then back again north and east through 'Renfroana', 'Levinia' and 'Sterlinensis'. Apart from the inconsistency in the order of the first two maps in this group of five, they again form an overlapping sequence arranged in a chain. The seventh group of three maps of Fife is similar to the Galloway sequence in that it begins with a small scale map ('Fifae') and is followed by two larger scale maps of the same area, ('Fifae pars Occidentalis' and 'Fifae pars Orientalis').

The eighth group of maps is different to those listed so far. It consists of three small scale maps ('Aberdonia & Banfia', 'Braid-Albin...' and 'Extima Scotiae') covering relatively large areas of north and northeast Scotland and with extensive overlap. An additional peculiarity of the group is a fourth map ('Lorna') on a much larger scale but adjoining 'Braid-Albin...'. In terms of the way that the groups are formed, 'Lorna' might more logically have been placed before 'Knappadalia', which it overlaps, so that it became the first map in the fifth group.

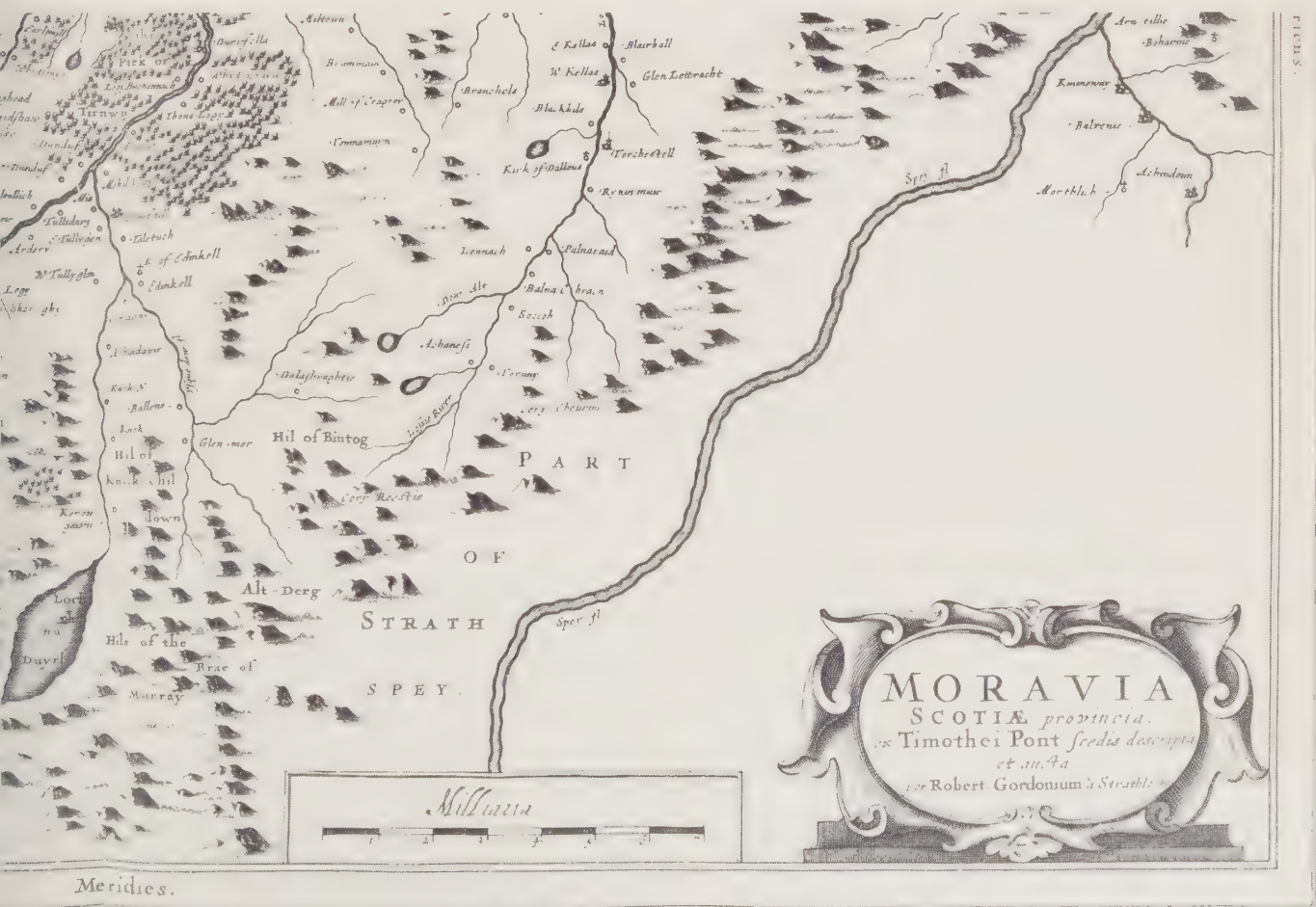
Thereafter, the groups are again easily recognised. 'Moravia' is the first of four maps comprising the ninth group which spans the northeast from Moray to the far north coast, including 'Southerlandia', 'Strath-navernia' and 'Cathenesia'. The tenth group is large. Like Galloway and Fife it commences with a map of the region ('Aebudae Insulae') followed by larger scale coverage of the Hebrides, starting from the south and arranged in order, northwards ('Iura', 'Ila', 'Mula', 'Insulae ... minores', 'Skia', 'Vistus' and 'Leogus & Haraia'). The last group consists of the two maps of the northern Isles on a single sheet ('Orcadum & Schetlandiae').

The maps in the atlas seem, therefore, to have been arranged into eleven small groups of overlapping maps, and within any group the arrangement follows a geographical sequence. The only exceptions are 'Iura', which appears before 'Ila' in an otherwise northward sequence of seven large scale maps in the tenth group, and also the reversal of the two maps of Clydesdale in the sixth group. 'Lorna' had also been mentioned as a curiosity in the context of the eighth group.



A part of Glottiana Inferior showing the very high density of place names. (By courtesy of the University of Aberdeen Library.)

No particular significance might be attached to the above order, were it not the case that evidence from quite different sources suggests that the reason for the distinctive arrangement of the forty-six regional maps in the atlas lies in the differing origins of the maps. It seems that the maps were in part arranged in the order in which they were received, and that the index provides valuable corroborative evidence of the differing origins of the regional maps.



Cartouche of Moravia with acknowledgement to both Timothy Pont and Robert Gordon. (By courtesy of the University of Aberdeen Library.)





There are three sources of evidence pointing to a group of maps whose origins lie in engravings prepared by Blaeu's craftsmen working directly from the original work of Pont. These sources are firstly the acknowledgements engraved on some of the maps themselves. Secondly, there is evidence that all of Pont's manuscripts went to Holland and that Blaeu returned only some of them, so that gaps in the extant manuscript collection of Pont in the National Library of Scotland suggest possible areas where Blaeu worked directly from Pont manuscripts. Thirdly, in the case of some printed maps, relevant manuscript maps by both Pont and Gordon have survived and comparison shows that in the case of 'Nithia', Gordon did not assist Blaeu's engravers. On the basis of these three sources of evidence, thirty maps appear to derive from the work of Pont and therefore portray late sixteenth century landscapes. These thirty maps comprise exactly seven of the above groups, namely the first five and the last two.

On the evidence of recently revealed correspondence between Blaeu and Gordon, also of the credits engraved on the maps, and of the results of comparison with, in these cases, extensive extant manuscript coverage, five maps were drafted by Gordon from Pont manuscripts without amendment. These maps also portray a late sixteenth century landscape, and on looking for their place in the atlas they comprise the sixth group in entirety and without exception. They were the earliest of Gordon's work and were inserted immediately after the first five groups consisting of the twenty-one mainland maps already in Blaeu's possession. They were drafted before the date of the correspondence between Blaeu and Gordon, which is dated 1642.

The three maps of Fife constitute the seventh group and again drawing on the evidence of the 1642 correspondence in combination with extant manuscripts and the engraved acknowledgements on Blaeu's maps, the drafts probably reached Blaeu before 1642 despite the fact that engraving was not completed until at least 1645. The smaller scale map is by James Gordon of Rothiemay, but the two larger scale maps may well be by his father Robert Gordon, and they may not rely exclusively on Pont manuscripts of which only one relevant fragment survives. They may therefore portray a later landscape than that of the late

sixteenth century recorded by Pont. These suggestions accord with the order of the maps in the atlas, in that they were engraved later than those in the sixth group, but before all but one of the maps in the eighth and ninth.

The first map in the eighth group differs in age from at least two of the other maps in the group. Extant manuscript sources suggest revision of Pont's work by Gordon in the case of 'Aberdonia & Banfia', and the 1642 correspondence shows that it was in Blaeu's hands before March 1642. It is the earliest of the three small scale maps in the group, and hence it is placed first of the group in the atlas. 'Briad-Albin' and 'Extima Scotiae', the other small scale maps in the group, probably derive from a great many sources, some of which are extant, but a great many of which are lost. They may portray late sixteenth century landscapes in parts of their areas, but they may also incorporate later revision. They resulted from the correspondence of 1642. Together with 'Aberdonia & Banfia' they represent the major contribution by Robert Gordon in ensuring that coverage of Scotland would be comprehensive.

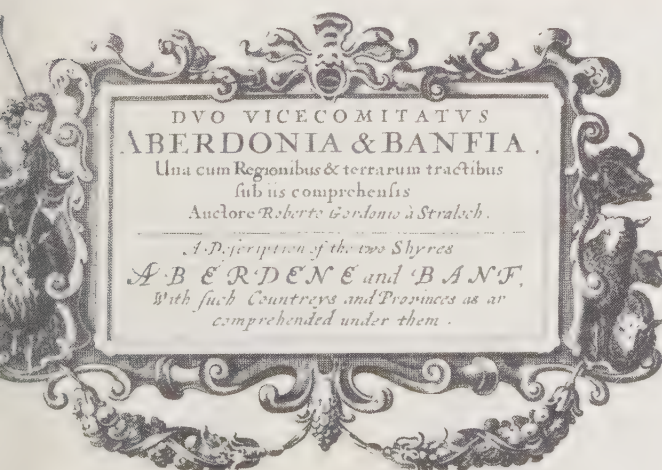
The only group still to be considered is the ninth group, where there is evidence in the extant manuscripts to suggest that the four large scale maps of the northeast were drafted by Robert Gordon, albeit with very little amendment of Pont's sixteenth century record. They seem to have been compiled after 1642 and considering their position in the atlas, and in the case of 'Southerlandia', the unfinished state of the engraving, they may have been among the last of the maps to be compiled. They were inserted in the atlas as the last of the maps of the mainland, i.e. before the islands. The maps of the western and northern isles which follow had long since been in Blaeu's hands.

The only map which does not conform to the remarkable accordance between alternative evidence of provenance and order in the atlas is 'Lorna'. This map is an anachronism. Such manuscript sources as survive suggest that the map was engraved without the prior assistance of Gordon and that it portrays the sixteenth century landscapes of Pont. Yet it appears in the atlas among maps prepared by Gordon at a much smaller scale and probably at a much later date. The illogicality of its position in the atlas is an unresolved problem.



[illegible]

The cartouche from Aberdonia and Banfia acknowledging the work of Robert Gordon in preparing the map which included his home area of Aberdeenshire. (By courtesy of the University of Aberdeen library.)



DVO VICECOMITATVS  
**ABERDONIA & BANFIA.**  
 Una cum Regionibus & terrarum tractibus  
 sub iis comprehensis  
 Auctore *Roberto Gordonio à Straloch.*

---

*A Description of the two Shyres*  
**ABERDENE and BANF.**  
*With such Countreys and Provinces as are  
 comprehended under them.*

To break up an atlas in order to remove individual maps is to reduce its value as a potential source of information as well as to destroy what was often a carefully created entity. An original atlas, that is, a collection of maps with all accompanying text as conceived by the publisher, has historical value. To cannibalise bound volumes in order to add to collections of loose sheets is to reduce our knowledge of early maps.



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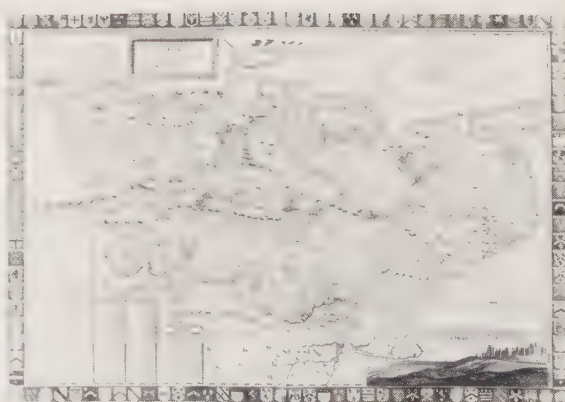
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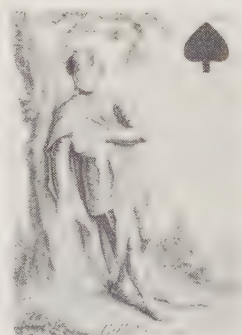
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# Thriving Map Club in Finland

WHEN CHARTARUM AMICI, a club for map collectors in Helsinki, held its inaugural meeting fifteen years ago there were twenty members. Today their membership is over fifty and the club is thriving and going from strength to strength.

In addition to lectures, many by their own members, the club has visited map collections including that of Nordenskiöld, the map collection of the National Archives, the National Museum and the National Board of Survey. The club have also been involved with map exhibitions in Helsinki like the exhibition of the SAS collection, the exhibition of Iceland maps, the Oddities Exhibition of Helsinki University and the Nordenskiöld exhibition.

When the opening of the North-east Passage by Nordenskiöld was celebrated in Finland last year the club arranged its own seminar and discussion evening as well as an exhibition of about fifty Carelia maps from 1550-1840 which are the property of the chairman, Mr Aarno Piltz.

The library of Helsinki University has just finished the first part of the catalogue of the Nordenskiöld collection and, in the words of the chairman, the club, 'can be proud that at its meeting in March 1967 the subject was under discussion and it was decided to promote the starting of the cataloguing work. As a result of this - through difficulties and with the kind assistance of other communities - the cataloguing work was given means from the state budget.'



Librarian Ulla Ehrensärd from Stockholm and Mr. Aarno Piltz, Chairman of Chartarum Amici, discussing early maps at an exhibition held in Helsinki. (By courtesy of Aarno Piltz.)

# Saxton Exhibition at British Library

THE NATIONAL SURVEY of England and Wales was begun about 1573 by Yorkshire surveyor, Christopher Saxton, with the encouragement and financial support of his employer, Thomas Seckford, one of the masters of the Court of Requests. With the patronage of Queen Elizabeth I, he completed the work in only five years and in 1570 the first atlas of the counties of England and Wales was published. Saxton then compiled and published a large wall map of England and Wales on twenty sheets in 1583.

To celebrate this achievement, which set the cartographic view of the country for the next 150 years, an exhibition of Saxton's work at both

national and local level is to be shown at the Map Gallery of the British Library, Great Russell Street, London. It will run from June 27 this year until December 31, 1981.

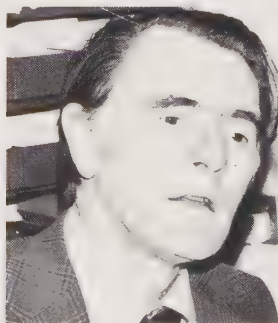
To show the contrast with Saxton's skill as a map maker, on display will be examples of the work of earlier and contemporary surveyors; these illustrate the variety and vitality of the Tudor surveying tradition in which Saxton worked. Most notable are the maps by the surveyors John Walker and John Norden, by the military engineers to the Crown, John Rogers and Richard Popinjay, and by the antiquaries Lawrence Nowell and William Lambarde.

The exhibition is being prepared by Sarah Tyacke and John Huddy of the Map Department and they are collaborating in the preparation of an illustrated book list.

The display of maps, many of which will come from the Cotton Collection in the Department of Manuscripts at the Library, will be supplemented by loan material from several sources. Among these will be the Public Record Office, St Thomas' Hospital, the Museum of the History of Science and the National Maritime Museum. The Duke of Northumberland will also be lending two Saxton maps from his personal collection.

## PROFILE

## A Love Affair with the British Countryside



Gwyn Walters

GWYN WALTERS' enthusiasm for and love of his native countryside was one of the factors which prompted his interest in early maps. His more academic concern for seeing early maps as mirrors of past landscapes and expressions of antiquarian thought

dates from a dissertation which he wrote on the Tourist journals and guide-books relating to Wales, 1770-1870.

'I look at everything historically', he told *The Map Collector* recently. 'I hate the texture of modern maps - they are so anaemic in comparison with those of the age of copper-engraving'.

Symbolically, and practically, Gwyn is well placed for studying the history of the lie of the land, for he works in the imposing National Library of Wales which stands on a windy hill overlooking the University town of Aberystwyth. From his working desk he can see the whole sweep of Cardigan Bay, regally charted by his fellow-countryman Lewis Morris in the middle of the eighteenth century. The situation is conducive to thinking and dreaming, and at his elbow are the resources of the Library's departments of Maps, Prints, Books and Manuscripts. At the Library he is an Assistant Keeper with particular responsibilities for the purchase programme of the institution.

'When I started at the Library twenty three years ago as a research assistant we received books wrapped in Dutch topographical maps; these protective wrappings from the bookshops of Amsterdam, The Hague and Leyden seemed to awaken that feel for maps which is a necessary prelude to an



# Sea Charts on Display

CHRISTOPHER TERRELL, curator of Hydrography at the National Maritime Museum at Greenwich, has put together a fascinating exhibition which will attract anyone interested in the history of sea charts.

The exhibition, which has already attracted over 18,000 visitors, tells the story of the surveying for the *Atlantic Neptune*, a magnificent atlas, several volumes of which rest at The Maritime Museum. Most of the single charts form part of the Henry Stevens Collection acquired by the Museum in the 1930s.

Mr Terrell collected his material from many sources including the Public Archives of Canada who have lent two copperplates used for printing the atlas and eight of the printed charts. There is also material from the Hydrographic Office at Taunton in Somerset; the Public Record Office and the British Library.

He traces the story of how, following the occupation of French Canada in 1763, Britain came into possession of a vast new empire stretching from the arctic to the Gulf of Mexico. Much of the empire was virtually uncharted, and both the Board of Trade and the Board of Admiralty were persuaded to finance a programme of organised survey on a scale previously unknown in British history.

After only fifteen years this first British Empire disintegrated with the revolt of the American colonies but not before the survey was nearly complete and published in a series of magnificent atlases entitled the *Atlantic Neptune* by J.F.W. Desbarres. The exhibition tells the

story of the men who carried out these surveys including Lieutenant DesBarres who was trained in the techniques of surveying at the Royal Military Academy in Woolwich in 1741.

DesBarres was employed by the Admiralty from 1764 to survey the coast of Nova Scotia and the notoriously dangerous Sable Island—a survey which lasted ten years and which led him to conceive the ambitious project of *The Atlantic Neptune*. Other surveyors were James Cook, who was chosen by the Admiralty to survey the coast of Newfoundland and the strait of Belleisle; Captain Samuel Holland who surveyed the St Lawrence and New England and William Gerard De Brahm, who surveyed the virtually uncharted Florida and Southern Colonies.

In 1774 DesBarres returned to England and laid before the Board of Admiralty his great design for a series of atlases covering the whole coast of Britain's North American Empire. It was agreed that he could have a free hand to publish the charts and the surveys were all made available to him.

There are many ancillary stories which are told and illustrated with maps, prints, models and instruments by Mr Terrell in his exhibition. Perhaps the centrepiece is the beautifully bound final and most lavish edition of DesBarres' atlas which, in the Museum's words, is 'elegantly designed, beautifully printed and sumptuously bound.'

The exhibition is open until the end of May during normal visiting hours.

# NEWS



Happily inspecting the result of many hours of work are (left) Robert Taylor, (centre) Adrian Prockter and (right) John Fisher. They were pictured at the launching of their book entitled *The A to Z of Elizabethan London* which has been published by Harry Margary in association with the Guildhall Library, London. The launch was held at the Guildhall Library, London, when all those involved in the project were thanked. Adrian and Robert made the identifications on the map and John wrote the introductory notes. Bernard Miles, the actor, who is now Lord Miles of Blackfriars, made one of the identifications and was among the guests at the party.

## New Gallery Opened

A NEW GALLERY has been opened in the village of Kingsclere (on the A339 road between Newbury, Berkshire and Basingstoke, Hampshire) run by Charles and Prinula Jager.

Mr Jager became interested in old maps several years ago when he was in Amsterdam and his interest has now been turned into a business together with the buying and selling of watercolours and old prints.

The opening exhibition was held in December

and great interest was shown in the Berkshire and Hampshire maps and prints. The next exhibition will be this March and the Jagers' are hoping - in the not too distant future - to open the gallery daily. At the moment it is only open for the exhibitions and by appointment. The address is Kingsclere Gallery, 2A George Street, Kingsclere, Newbury, Hampshire. Telephone (0635) 298734.

### NEWS FLASH

In our first issue we reported that Francis Edwards Ltd., of Marylebone High Street, London, had been broken into and their entire stock stolen. We are pleased to report that due to the vigilance of a map dealer one man, Douglas Davidson, is now serving an eight months prison sentence for handling stolen goods and another person is awaiting trial at the moment and will be appearing in court shortly.

exploration of their history', Gwyn said.

In the late 1960s he and Brian Harley of Exeter University began to probe into early map collections - their provenance and their subsequent dispersal by sale. Gwyn is convinced that many very valuable collections were sold off unfashionably as job-lot parcels at book sales, or even destroyed as unsaleable rubbish. This is one of the reasons why the research (conducted mainly in the files of Messrs. Sotheby and Christie) has proved so difficult. Brian and Gwyn have written a number of articles about these collections (see Issues No. 2, page 26; No. 3, page 12; and No. 6, page 37 of *The Map Collector*; and their study of the previously unrecorded sale of the library of William Roy in *Imago Mundi*, Vol. 29). Gwyn has also written studies of early mapping or map libraries in such journals as *The Library*, *The Cartographic Journal* and *Welsh History Review*.

Although at university he studied the earth sciences (with some excursions into primitive anthropology and archaeology) his life as an academic librarian has centred primarily on bibliographical investigations and the history of the book trade. This happy circumstance, he claims, has given his cartographic studies a balance and context which they might otherwise have lacked,

since the techniques of analytical bibliography and the history of the book trade have relevance for maps.

He is not really a dedicated collector of maps, but describes himself as a 'maggie' collector. At various times he has collected rare guide books, sale catalogues of libraries, printers' ephemera, and maps of Wales, but now finds first editions of English literature and paintings by Welsh artists of compelling interest. For the past seven years he has been working, again with Brian Harley, on the influence of the Ordnance Survey on the orthography of Welsh place names. It has involved intensive study of the first Ordnance maps and O.S. archives, as well as the tracts and correspondence of nineteenth century Welsh scholars. This work is due to appear in *Archaeologia Cambrensis* in 1980.

Gwyn told *The Map Collector* that as he gets older he feels that there is no country he knows which has the richness and beauty of the British countryside; and whenever possible he travels (a jogging B road motorist) the length and breadth of Britannia to the favourite landscapes of the Moray Firth, Hardy's Dorset heathlands, and the broad acres of the Ridings.

He is a member of the British Cartographic Society and is married with two children.





## To catch a Thief

THE SHARP EYE of American map dealer, Walter Reuben, led to a professor of Tulane University, Andrew Antippas, being charged with transporting stolen goods across state lines. And, as a result of this case, the FBI is investigating other possible thefts of historic maps and rare documents at several universities in the Northeast of USA.

According to a recent article in the *Smithsonian* magazine, plundering maps, documents and rare volumes has become a big illegitimate business for crooked individuals and even for gangs. This case briefly drew attention to a problem that has bothered archivists, librarians and antiquarian booksellers for years and is a problem that is on the increase.

The magazine says that 'libraries and archives have always suffered thefts, but never before on the scale of the past few years. The thieves are numerous, bolder, often more ingenious and never in the past was there such demand for their swag.

Paper taking is usually indecently easy. The Tulane Professor, for example, simply established his identity, stated the thrust of his research and was left alone with all the maps he asked to see. He then took one here, another there, never enough maps from one single set to arouse suspicion.'

The *Smithsonian's* description of how Walter Reuben spotted the stolen maps is worth repeating as a cautionary tale.

'In his Austin shop, antiquarian bookseller Walter Reuben unwrapped the Republic of Texas and early Louisiana maps excitedly. They were fine specimens and bargains. But he knew almost at once he couldn't buy them — not at any price. He telephoned the colleague who had offered them on approval to explain why.

"I have reason to believe," Reuben picked his words carefully, "that these maps have been taken from the Sterling Library at Yale University."

An embarrassed silence, and then the other dealer spluttered: "Taken. You mean stolen? That's impossible. I bought them in New Orleans from a responsible person, an associate professor of English at Tulane University. Surely you don't think ....?"

Reuben did think. If the other dealer agreed to forward the maps to the Sterling Library, Reuben would hand them back to him no questions asked. Otherwise he'd take them straight to Austin's FBI office, for he had recognised the pencilling on some of the maps as the handwriting of Thomas Streeter, a widely known collector of Americana who had died in the 1960s. Knowing that the Yale library had purchased Streeter's Texana collection in the early sixties, Reuben

## Around and About

**John Bartholomew & Son**, the well known publishing company in Edinburgh, are refurbishing a room at their premises in Duncan Street and making it into a museum. The displays and information are being prepared by Ann Young, the company librarian, who hopes to open the museum later this year. The room used to be where copperplate pulls were taken and the press will be the centrepiece of the exhibits. Ann hopes to show a complete history of the Bartholomews covering the last 153 years plus an introduction to the history of cartography and examples of printing techniques through the ages.

**An article which** Hungarian born Laszlo Gróf wrote on the maps in his collection (*The Map Collector*, Issue No 6, March 1979) led to a fifteen-minute broadcast at peak listening time on the BBC World Service in November. Mr Gróf, who lives in Oxfordshire, collects maps of his birthland and after the BBC had seen his article they interviewed him at his home in his native language of Hungarian. The interviewer was Mr T. Kornickzy who asked Mr Gróf about his maps of Hungary with particular emphasis on maps by Abraham Ortelius and John Speed. Mr Gróf's mother still lives in Hungary and was very pleased to hear her son on the radio.

**The next Antiquarian Book Fair**, the longest established of its kind in the world, will be held this year at London's Europa Hotel, Grosvenor Square, W1, on June 10, 11 and 12. This will be the 22nd book fair and bibliophiles will find for sale a selection of some 25,000 items from incunabula to modern First Editions, musical scores, prints, maps and atlases, ranging from rare and costly volumes to books and pamphlets at modest prices. Special feature of the fair will be a loan exhibition of book bindings, 'Bound to be Noticed- Book Bindings Classic and Curious' illustrating the art at which the English have excelled since the reign of Henry VIII.

**A Northern Antique Map Collectors' Conference** is being planned and any readers interested in taking part are asked to contact J. Alan Hulme of 52 Mountway, Waverton, Chester, as soon as possible. He proposes to hold the conference at the Grosvenor Hotel in Chester on October 4th of this year and papers will be read by leading authorities on antique maps. Special theme of the conference will be Christopher Saxton and John Speed — both northern-born cartographers — and an exhibition of their maps will be on display.

doubted that any items from it would be "deacquired" so soon. And on some of the maps Reuben saw Sterling Library markings that had been partly obliterated.

The Yale librarians took back their maps in

Mr Hulme hopes to establish this as a regular annual one-day event but must have some indication of numbers this month. We at *The Map Collector* will be supporting this in every way we can as we feel it would fill a definite need.

**John Coles** of *The Astrolabe*, Ottawa, Ontario, is the course co-ordinator for a series of lectures on the history of cartography being held at Algonquin College, Ottawa. Among the lecturers are Ed Dahl, Chief, early Canadian section of National Map Collection; Betty Kidd, Chief, National Map Collection; and Lou Sebert, Chief, Surveys and Mapping. The objective of the course is to provide the basic background information for the formation of a collection of antique maps and for those interested in the fields of Cartographic History and early Canadian exploration.

**A facsimile** of Herman Moll's *Atlas of Scotland* published in 1725 is due to appear soon. It is being published by Heritage Press (Scotland), Towie Barclay Castle, Turiff, Aberdeenshire, and will cost £68. The original from which it is taken is in the special collection on King's College Library, Aberdeen.

**The publication** of the new book of the life of Christopher Saxton, *Christopher Saxton, Elizabethan Map Maker*, reminded the two directors of the Map House, London, of their family's connection with this famous father of cartography. The Hon. Anthony Savile and John Savile, Viscount Pollington, are descendants of Sir George Savile and Sir Edward Savile who, in 1596-7 commissioned Saxton to prepare estate maps of the family estates. The family seat is still at Methley, the village next to Dunningley, where Saxton lived. The book states that, 'the Savile family was one of the wealthiest and most influential families in the West Riding of Yorkshire, originating in the south of the Riding.' Saxton was obviously employed by the family several times to draw up estate maps, some of which can be seen in the Rufford Collection at Nottingham. It is known that Sir George Savile was a friend to whom Saxton turned for advice on literary matters of the day.

**Appearing shortly** will be a revised edition of Rodney W. Shirley's *Early Printed Maps of the British Isles 1477-1650* and *Maps and Charts of Mexico and New Spain* by Kit S. Kapp. These are being printed by Holland Press Cartographica of 37 Connaught Street, London W2 2AZ.

some disbelief, for they hadn't suspected that the rare items were missing. The theft might have gone unnoticed for months, years or decades: such archival material, however important, is not perused every day.'

### OBITUARY

## Heinz Heinemann

Those who are wont to frequent book fairs, particularly the international events, will be sad to learn of the recent death of H.E. Heinemann of Mansfield Book Mart, Montreal, Canada.

His last London visit was this summer in his usual pitch at the European Book Fair. Although I knew him for only a few years, and we only met very infrequently, we would

always spend time talking together. 'Heinie' was in business in Germany before the war until he was forced out by the Nazis. He then went to China and ran bookshops there until he was forced out this time by the Chinese communists. He eventually settled in Canada in the early 1950s. He will be greatly missed but his firm will live on.

**John Goss**



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## LETTERS TO THE EDITOR

Sir  
I enjoy your opulent magazine very much. As a newcomer to map collecting I would appreciate more articles for the beginner and less sophisticated collector. Perhaps you may consider a question and answer section, or one in which readers could send in pictures of maps and ask for various types of advice. A low price classified ad section for the simpler folk would be helpful. Thank you.

S. P. Waife, M.D., F.A.C.P.  
1047 Carter's Grove  
Indianapolis  
Indiana 46260

Sir  
I do not know whether you will have room for a letter in 'The Map Collector' on a rather frivolous point. (Yes, we have found room - Ed.) Have you appreciated the significance of the initials of your publishing company? I have seen the initials MCP on a tie which also had on it a likeness of a certain farmyard animal. You will, no doubt, have seen the advertisement for the tie suitable for all Male Chauvinist Pigs. The fact of Map Collector Publications having the same initials is, I am sure, pure coincidence.

M. Heneker  
Whitings  
The Clears  
Reigate  
Surrey

(Yes, it most definitely is. Particularly as most of the staff are WOMEN! Ed.)

Sir  
Please allow me to tell you that after a search for about ten years I finally found a long-wanted map of the Kanton Schaffhausen in Switzerland thanks to an advertisement I inserted in 'The Map Collector'.

The map is not very old (1813) but probably was out of fashion at the time it appeared and therefore only a few examples apparently survived.

Hans P. Rohr  
CH-8201 Schaffhausen Vordergasse 57  
Postfach 468

(We were very pleased to hear from Mr Rohr about finding this map through our columns and hope many other readers are having similar experiences. - Ed.)

Sir  
On re-reading my article on The Maps in De Bry in The Map Collector for December, I should like to correct the following errors:  
Page 4, para 2, the last line should read 'two series' and not 'two volumes'.  
G6 Title should read 'Novvs Respectv.'  
P6 Note, should read 'Terra Australis Ingognita (sic)'  
P8 In title over the 'o' in 'xpo' there is a sign  
P11 The two Hs in 'H Hudson' should be joined.  
J.G. Garratt

Sir  
As a small collector of his maps but a great admirer of Christopher Saxton, I have added

interest in him as a fellow Yorkshireman. He was born, the records say, at Dunningley, never an important place but which, in forgivable conceit, he marked and named on his Yorkshire map. I decided to seek out this historic birthplace, some ten miles from my home.

Knowing that Christopher had produced in 1600 'A platt of the Towne of Dewsbury' which is held in the Dewsbury Public Library (now part of the Kirklees Metropolitan Borough Library Service), I called on Mr Smith, then the librarian who showed me the Dewsbury map. Honesty compels me to report that the map is no cartographical triumph - sparse in detail, undistinguished in execution - its principle attraction being the signature of the master.

We then set off in search of Dunningley. It is near today's Tingley, a village about five miles south of Leeds (marked Tynglaw on the Saxton map of Yorkshire). We eventually discovered Dunningley, which is a depressing and derelict area of rhubarb fields with neglected and hemmed in by a network of disused railway tracks. A less attractive landscape could hardly be imagined. The place itself is no longer even a hamlet. A farm house and buildings and two or three undistinguished old, but not ancient, cottages do nothing to evoke past glories. As reputedly Christopher returned to Dunningley a man of substance and importance, one imagines that in its heyday it would have been a more impressive place. Alas it is now a casualty of the Industrial Revolution and not a place to which one could choose to make a pilgrimage - or repeat a sentimental journey.

Clifford Stephenson  
Huddersfield

## BOOK REVIEWS

CHRISTOPHER SAXTON. ELIZABETHAN MAP-MAKER by Ifor M. Evans and Heather Lawrence. Wakefield and London: Wakefield Historical Publications and The Holland Press. 1979. 285 x 225mm. pp. 186, illustrated, index. £20. ISBN 0 901869 06 6.

The circumstances of this new biography on the four hundredth anniversary of the publication of Christopher Saxton's atlas of the counties of England and Wales will be well known to most map collectors. It is an occasion for celebration - rather than just commemoration - that in a rapidly changing world a remarkable technical achievement of the first Elizabethan age should have survived to be so esteemed in the second. The present book requires no justification, but perhaps an apology to Saxton that it is several centuries overdue. Delay has made the task more difficult. This is consequent not only on the heavy toll of time on records of Saxton's age, but also on the more exacting standards of scholarship and bibliographical description nowadays expected of historians of cartography. The book can be considered under three headings: first as a conventional biography of Saxton's life and work; secondly, as a contribution to an understanding of the techniques of Tudor map making; and thirdly as a work of reference bringing together the known corpus of Saxton's manuscript and printed maps.

As a biographical synthesis offering new insight from fragmentary records the text is to be welcomed. There is no doubt that others have contemplated - but then stepped back from the brink of writing - a proper life of Saxton. Sir Herbert George Fordham, Edward Lynam and R.A. Skelton all helped with the spadework for

such a study. Skelton wrote in 1970 that while he had attempted 'No systematic biography of Saxton', he had nevertheless brought 'together in chronological sequence the biographical materials so far known'. Evans and Lawrence have also set out 'to present all that is currently known of Saxton's life and work'. They succeed much more fully than previous biographers, and enlarge both the content and context of the map-maker's activities. A most thorough search was evidently made for new Saxton material, both documents and maps, and in archives including local collections in Durham, Leeds, Wakefield and York - hitherto neglected - and further afield in minutes and accounts of St Thomas' Hospital in Southwark (by whom Saxton was employed as an estate surveyor), and the Folger Shakespeare and Pierport Morgan Libraries in the U.S.A.

The effect of this documentation is to enable Saxton to begin to step as a real person from the pages of his atlas. We learn how his family worked as clothier farmers, paid taxes in their Yorkshire vill, bought and sold land, made their wills, or were the subject of entries in parish registers. Nor are we left entirely in the dark about the hitherto baffling circumstances of Saxton's apprenticeship in the new Renaissance science of surveying. Far from being closed to the outside his peasant society received influences from London and beyond. In particular two new historical actors are placed on the stage of his early life: John Field, a friend of the celebrated John Dee and author of an astronomical (Copernican) tract who had returned to live in Saxton's parish; and John Rudd, a cleric with a precocious enthusiasm for cartography, said to be engaged in making a 'platt' of England in the

1560s, and from whom Saxton acquired his surveying skills. Both men offer plausible links - previously missing - with the circle of Elizabeth's court, and thus with the new European cartography and the patronage of Burghley and Seckford.

From later chapters there also emerges a more credible portrayal of the older Saxton - following the publication of his atlas in 1579. He was now a 'gent', generously rewarded by the Crown, and a land surveyor with a lucrative practice in Yorkshire and beyond. The total of his identified written or map surveys now rises to almost forty (when Fordham wrote in 1927 only six manuscript maps had been located). At home in Dunningley Hall he lived the life of a small landowner, acting as bailiff to the local Duchy of Lancaster estates. As a churchwarden, a trustee of local almshouses and with a 'half share' in the profits of nearby Adwalton Fair, Saxton ended his days as a patriarch in the local community.

Saxton's national reputation of course rested mainly on his published cartography, and a major objective of any carto-biography must be to understand its contribution to the technical development of English map-making. In this respect the book is less successful. The text is more a digest of published literature, and the reader will find neither much new evidence nor yet fresh hypothesis and interpretation. In places the argument is either trivial in its specific attention to Saxton's mapping, or fails to come down firmly on the side of an established interpretation. On surveying (Chapter 4), there is a review of contemporary practice as set out in the main textbooks of the period, but then a mere paragraph on Saxton's techniques, with no



attempt to conclude whether these fine maps of the English countryside were based on triangulation or on some other method. The description of the engraving and calligraphy is equally cursory, while 'Colour on Saxton's maps' is dismissed in nine lines, and the great wall map of 1583 - posing fundamental questions as to its construction and generalisation - is also treated in only one paragraph.

One of the more enterprising technical chapters (2), attempts to reconstruct a chronology of Saxton's county surveys, but, on the evidence presented, alternative inferences could be drawn. The problem is that most of the clues (whether of dates on the maps, their content, revision of the plates, or decorative material) all refer to details added at the stage of drafting but not necessarily of survey. The survey itself, despite this conjectured reconstruction, could have been a more rational field operation, leaving priorities for publication to be ordered (by Burghley and others) at the stage of compilation rather than of survey planning. This is an example of how one set of facts can lead to two divergent conclusions. And it points to a need in this book for more of the 'reasoned speculation' of which its authors are aware, but in which art they are often reluctant to engage.

The third dimension of the volume is as a standard bibliographical reference book detailing Saxton's published and manuscript cartography. Although there are a few minor errors or misinterpretations (for example, the 'new titlepage' to William Web's edition of Saxton's atlas, 1645, pp. 45-6, is in fact new letterpress pasted on to Augustine Ryther's old title panel for the *Spanish Armada*, 1590), most of the relevant material has been carefully assembled. But what seems to be lacking is organisation. In some chapters the authors appear undecided whether they wish to write narrative history or descriptive bibliography. The switch from one to the other can be disconcerting and mars continuity in the text. This is exemplified by the treatment of the county maps and atlas, which are the subject of both separate chapters (3 and 5), of tables in these chapters (much listing and numeration makes the style indigestible), and then of several appendices (6, 10, 11-14). For many users of the book, as well as for its readability, the biographical and cartobibliographical material, respectively, could have been usefully separated rather than the latter written into the narrative as at present. If such a view is accepted then the two substantial chapters enumerating the manuscript surveys of Christopher and Robert Saxton (his son) should similarly have sifted biographical from bibliographical elements. In presenting the latter they could have then adopted more workmanlike and standardised rules of description.

In these structural respects *Christopher Saxton Elizabethan Map-maker* tends to fall somewhat between two stools. But it establishes itself as the best and standard treatment of its subject. It is an honest book, replete with facts, handsomely printed and generously illustrated. Its fresh biographical insights offer a long awaited tinder box for further Saxton discoveries.

**J.B. Harley**

**THE MAPS OF AUSTRALIA** by R.V. Tooley. Holland Press Cartographica Volume I. London, Holland Press, 1978. pp xix + 633, incl. index. Cloth. 255 x 185mm. £30. ISBN 0900470879

The publication of this substantial volume marks the welcome return of the catalogue of the famous collection of maps, formerly the property of R.V. Tooley, now in the National Library of Australia at Canberra. Subscribers to the now sadly defunct *Map Collectors' Series* will recall

that Mr Tooley's 'Printed Maps of Australia' appeared in seven fascicles as Nos. 60, 64, 66, 72, 79, 85 and 93 between 1970 and 73; this now occupies one third of the present reprint volume. The remaining part of the book draws together 'Early Maps of Australia, the Dark Period' (formerly MCS No 23, 1963) 'One hundred foreign maps of Australia 1773-1887' (formerly MCS No 12, 1964); 'Printed Maps of New South Wales' (formerly MCS No 44, 1967); 'The Printed Maps of Tasmania' (formerly MCS No 5, 1963, reprinted, with revisions 1975). Chapter six is a new section, by R.P. Hargreaves, on French explorers' maps of New Zealand. The majority of the 239 plates at the end of the book reproduce those originally published in their respective *Map Collectors' Series* fascicles, of considerably variable quality and clarity, the effects of which are somewhat softened by the use, standard to the *Holland Press Cartographica* series, of a sepia printing ink on cream paper, on which I have commented favourably before in these columns. Last, but certainly not least, is the new index to the whole work, the labour of Douglas Matthews, serving as an index to both text and plates.

The brief introductory essays to each section are essentially rewritten from the earlier *Map Collectors' Series* titles. Several times the point is made that the catalogue was originally intended as the catalogue of a personal collection and therefore never intended to be exhaustive. It would, however, be quite difficult though not impossible to cite examples of maps 'not in Tooley', but the user is game to try. Some might also argue that the essays ought to be larger and more detailed in content. Whilst this criticism has already been made elsewhere in other reviews of this work, it should be pointed out that the entries relating to the cartographic material are themselves a history of the mapping of Australia. It is for the user of this reference work to expand on any entries. *The Maps of Australia* is not a *definitive* work, for definitive works do not exist, but this book bids fair to become the standard reference for a long time to come. In this format, it can only be welcomed.

**J.J.S. Goss**

**LOOKING AT OLD MAPS** by John Booth. Published by Cambridge House Books. Westbury, Wiltshire, 1979. pp 167, 59 illustrations and coloured picture wrapper 4to cloth. (250 x 200mm) £9. ISBN 0906853001.

This attractive looking volume is well produced and illustrated. The title, however, needs elaboration. It is a look at maps of Great Britain only, a personal selection and viewpoint.

The fifty nine copperplates selected each have an accompanying text giving an account of the producers of the map; the aim being to give biographical details of the map makers rather than regional information. With the comparatively small number of maps described there are obviously many gaps. For example, there are only two mentions of maps of Scotland, three of Ireland, one town plan and a solitary chartmaker.

The main section is preceded by an introduction on sources, early surveying, methods of printing, colouring, research and reference and very venturesome remarks on investment and insurance. Insurance on any large collection can easily exceed income, greater reliance should be placed on security. A further debatable matter is his system of allocating rarity by a series of numbers.

The author writes with an infectious enthusiasm that will no doubt give pleasure to many readers.

**R.V. Tooley**



**CARTOGRAPHICAL CURIOSITIES** by Gillian Hill and Sarah J. Tyacke. London, British Museum Publications Ltd. for the British Library, 1978. (185 x 245mm) pp64. Paper £1.50. ISBN 0 7141 0392 6.

Visitors to the 'BM' taking the North bridge short cut to the north side of the building will have no doubt paused awhile to examine the exhibition of some of the whimsical productions that map publishers of the past were wont to publish. These were often not merely trifles for idle amusement but tools of educational instruction and pointed political statements.

The bibliography of cartographical curiosities is not exactly lengthy; indeed it is some years now since R.V. Tooley's own 'Geographical Oddities' published in the *Map Collectors' Series* (MCS No 1, 1963) went out of print. Even the many catalogues put out by members of the antiquarian map trade have listed but few of these curiosities. Small wonder, since the interpretation of, for example, some of the political cartoons masquerading as maps, in some cases calls for intimate knowledge of the history of the country concerned. Also, many curiosities found nowadays have been long since detached from their original publications, often books of pamphlets which enjoyed little or, at best, ephemeral circulation.

Into this small book, Mrs Hill has managed to squeeze a wealth of information on a remarkably wide compass, taking in board games, geographical jigsaw puzzles, playing cards (the curiosity perhaps most familiar to map collectors), maps of fantasy (the map of Brobdingnag from *Gulliver's Travels* being a well known example). Neither is the seventeenth and early eighteenth century cartographer's standby 'California as an Island' forgotten - after all that is manna to we trade cataloguers!

Cartographic anthropomorphism is included 'Leo Belgicus' symbolising the strength of the Seventeen Provinces is included and merits two illustrations. And just to show that cartographic jokes are not really a thing of the distant past, one of my own favourite examples turns up as example 76, the contours drawn in the shape of an elephant by a tired surveying party in 1928 on Sheet 17 of Gold Coast Survey 1:62500 series.

My own copy of this catalogue is already well-thumbed and annotated with additions - and I mean that as a compliment to the compiler of the catalogue.

**J.J.S. Goss**

## Catalogues received

CLIFTON BOOKS, 5a Dicconson Street, Wigan, Lancashire. Tel: (0942) 36716. *Books - Antique Maps and Prints - Water Colours*. General catalogue of maps and prints of the British Isles. pp 24, 368 items. BODLEIAN LIBRARY - MAP SECTION, Oxford. *Selected Maps and Book Accessions No*





347 October 1979. pp [6], [78] entries.  
**GARISENDA ANTIQUARIATO LIBRI E STAMPE**, Strada Maggiore 14/a, I - 40125 Bologna, Italy. Tel: 23.18.93. *Libri Rari Catalogo 17 Novembre 1979*. General catalogue of books and atlases, plus an addendum on Freemasonry. pp 47, 218 + 71 items.  
**HYDE PARK BOOK SHOP**, 8-10 Headingley Lane, Leeds. *Catalogue 23, Antiquarian Books - 1980*. General catalogue of books on all subjects in five sections, English, French, German, Latin, Italian. pp [68], 1026 items.  
**ARGONAUT BOOK SHOP**, 786-792 Sutter Street, San Francisco CA 94109, USA. Tel: (415) 474-9067. *Fine and Rare Books. A Selection From Stock. Catalog 79*. General catalogue of books and atlases, mostly of American interest. pp [29], 151 items.  
**R. T. LOMBARD, JR.**, ANTIQUE MAPS, 21-2 Fort McNair, Washington DC 20024, USA. Tel: (202) 554-3676. *Antique Maps. Fall - 1979*. General catalogue of maps of all parts of the world, World, Africa, The Americas, Asia, Europe. pp 12, 53 items, 21 illustrations, list of references cited.  
**HENRY STEVENS, SON & STILES**, 4 Upper Church Lane, Farnham, Surrey GU9 7PW. Tel: (0252) 715416. *Catalogue Americana 88*. Catalogue of books, documents and maps relating to North America pp 31, 182 items.  
**H. TH. WENNER**, Heger Strasse 2-3, D-4500 Osnabrück, West Germany. Tel: 25516 or 28101. *Antiquariatskatalog 285. Stadtansichten und Dekorative Graphik*. General catalogue in 30 sections of plans and views of cities throughout the world. pp 187, 3835 + 395 items, 141 illustrations, including one in colour, section index.  
**RUSSBOROUGH**, PO Box 422, Station R, Toronto, Ontario, Canada M4G 4C3. Tel: (416) 425-2457. *Antiquarian and Canadian Maps. Catalogue 2 1979*. Catalogue in eight sections, celestial and Ptolemaic maps and prints, World and Western Hemisphere, Canada and Arctic, United States of America, West Indies, China and Far East, Manuscripts. Compiled by D.G. Leeson and L.M. Seidel. pp 44, 93 items, 52 illustrations, list of references cited.  
**APSTANLEY MAPS AND PRINTS**, 41 Sea Lane, Ferring, West Sussex. BN12 5DY. Tel: (0903) 43570. [Catalogue]. General listing of maps and prints of all parts of the world. pp [6], [244] items.  
**L.S. STRAIGHT**, 101 Maple Street, Wwhawken, NJ 07087, USA. Tel: (201) 863-9115. *Catalogue No 322. Asia*. pp 20, 201 items, 5 illustrations.  
**C. BROEKEMA**, Titiaanstraat 28, 1077 RH Amsterdam, Netherlands. Tel: 72.59.33. *Old and Rare Maps & Seacharts Catalogue 62*. Catalogue of maps and charts of all parts of the world in seven sections, world maps and celestial charts, Africa, America, Arctic and Antarctic, Australia and the Pacific, Asia, Europe. pp [52], 409 items, contents list, geographical index.  
**EX LIBRIS**, 11 rue Victor Cousin, F-75005 40

Paris, France. Tel: 325.50.16. *Catalogue N° 4 Asia, Africa - varia. Voyages, Misions, Ambassades, Livres Rares, Exotica*. Catalogue in author sequence. pp [48], 402 items, bibliography, subject index.  
**W. GRAHAM ARADER III**, 1000 Boxwood Court, King of Prussia PA 19406 USA. Tel: (215) 825-6570. *Catalogue 18. Americana I*. Catalogue in six sections, American Prints, Rare Books and Atlases, Atlantic ocean, North and South America, Northeast States, Southeast States. pp 40, 206 + 117 items, 37 illustrations, list of references cited.  
**STANLEY GIBBONS ANTIQUARIAN BOOKS LTD.**, 395 Strand, London, WC2R 0LX. Tel: 01-836 8444. *Stanley Gibbons Antiquarian Books, Catalogue Three. Autumn 1979*. Catalogue in thirteen sections, including travel and topography. pp vii + 92, 266 items, 12 plates with 16 illustrations, contents list, list of references cited.  
**JOHN HOWELL - BOOKS**, 437 Post Street, San Francisco CA 94102, USA. Tel: (415) 781-7795. *Catalogue 50 Part I California Spanish Exploration to American Statehood. The Library of Jennie Crocker Henderson with Additions 1979*. Edited by J Collins and C.T. Knapp, note on Jennie Crocker Henderson by W.R. Howell. pp vi + 1-118, items 1-262, 14 illustrations.  
 —. *Catalogue 50 Part II California 1850 To The Twentieth Century A-L* pp iv + 119-226, items 263-614, 10 illustrations.  
 —. *Catalogue 50 Part III California 1850 to the Twentieth century M-Z* pp iv + 227-334, items 615-963, 14 illustrations.  
**PETRA & PRESTON FIGLEY**, Old Maps and Prints, PO Box 2234, Fort Worth, TX 76113, USA. Tel: (817) 923-4535. *Old Maps and Prints. List 2*. Catalogue of maps of all parts of North America. pp [20], 45 items, 16 illustrations.  
**C. BROEKMA**, Titiaanstraat 28, 1077 RH Amsterdam, The Netherlands, Tel: (020) 72.59.33. *Voyages & Exploration. Rare Books. Catalogue 63*. Catalogue in alphabetical sequence of books and atlases. pp. [60], 606 items, 11 illustrations, general index.  
**DAMMS ANTIKVIARIAT A/S**, Bokhuset, Eckersbergsgaten 14, N-1002 Oslo, Norway. Tel: 56.45.33. *Julekatalog Desember 1979 Katalog 605*. Catalogue in ten sections, Fiske, Vin, Tobakk-brennerin, Ol, Kaffe, Kakao, Kunst, Oklentisme, Skjonnitteratur, Utenlandsk Skjonnitteratur, Eventyr, Arctica, Kart, Dickens. pp 38, 1264 items, 4 illustrations.  
**CÉCILE ELUARD**, 43 rue Sous Barri, F-06800 Haut de Cagnes, France. Tel: (16.93) 20.12.63. Occultisme, philosophie, éditions originales, livres illustrés, autographes du xvi<sup>e</sup> au xx<sup>e</sup> siècle. *Catalogue 18 (rangé par ordre alphabétique et par siècle.)* pp [68], 251 entries, 18 illustrations.  
**JULIA HOLMES**, 8 College Hill, Haslemere, Surrey HU27 2JH. Tel: (0428) 2153. *A Catalogue of Prints of Country Sports, Pastimes and Animals Published between 1780 and the present day*. Catalogue arranged by subject, plus a section of English county maps. pp 38, 1245 items, 15 illustrations.  
**WALTER REUBEN INC.**, Suite 910, American Bank Tower, Austin TX 78701, USA. Tel: (512) 478-3338. *Catalogue 34. Rare Books and Maps*. Catalogue in two main divisions, of books of primarily Americana interest; of maps of all parts of the world. pp 118, 217 items, 40 illustrations, 2 general sectional indexes, 2 sectional geographical indexes.  
**BODLEIAN LIBRARY - MAP SECTION**, Oxford. *Selected Maps and Books Accessions No 348 November 1979*. pp [8], [140] entries.  
**HISTORIC URBAN PLANS**, Box 276, Ithaca, NY 14850, USA. *Historic City Plans and Views Catalog 23-1980*. Catalogue compiled by John W. Reys and town plans and panoramic views, mostly of North America. pp 73, [410] entries,

266 illustrations, index.  
**JONATHAN POTTER LTD**, 1 Grafton Street, London W1X 3LB. Tel: 01-491 3520. *A Selection of Rare and Decorative Antique Maps*. General catalogue of atlases and maps of all parts of the world. pp 64, 295 items, 63 illustrations, index.  
**RANDALL HOUSE**, 185 Post Street, San Francisco, CA 94108, USA. Tel: (415) 781-2218/9 *Rare Books IX. Made in America. A Selection from Stock of Rare & Interesting material indigenous to the People, Places and Events from Hawaii to New England and from Alaska to the Gulf of Mexico, including special sections devoted to Hawaii, Maps, Mormons, Railroads & Yosemite*. Compiled by Jennifer Licht and Ron Randall. pp [128], 759 items, 17 illustrations.  
**ANDREA VIGLONGO & C. EDITORI**, Casella Postale 412, I-10100 Torino, Italy. Tel: 011/60.60.421. *Antiquariato Librario Viglono - Torino & Offerta di un assortimento di opere di generale interesse*. General catalogue in author sequence. pp [72], 993 items subject index.  
**STEPHANIE HOPPEN LIMITED/RICHARD B ARKWAY INC.**, 67 Cadogan Square, London SW1, Tel: 01-235.4859/114 East 61st Street, New York NY 10021. Tel: (212) 752.1864. *A Catalogue of Fine Illustrated Books From 1490. January 1980*. Catalogue in author/subject sequence pp. 72, 83 items, 68 illustrations, subject index, list of references cited.  
**NIEDERSÄCHSISCHE STAATS-UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN**, Prinzenstrasse 1, D-3400 Göttingen, West Germany. *Kartensammlung. Atlanten und Karten, Neuerwerbungen Nr 7 1979*. pp. 42.  
 —. *Geographie. Neuerwerbungen Nr 19 1970*. pp. 41.  
 —. *Geographie. Neuerwerbungen Nr 20 1979*. pp. 39.  
**ANTIQUARIAT KONRAD MEUSCHEL**, Kaiserplatz 5, D-5300 Bonn 1, West Germany. Tel. (02221) 224128. *Inkunabeln und Drucke des 16 Jahrhunderts, Dreiunddreissigster Katalog*. pp 78, 172 items, 35 illustrations, subject index, index of printers, by location.  
**RICHARD FITCH OLD MAPS AND PRINTS**, 2324 Calle Halcon, Santa Fe NM 87501, USA. Tel: (505) 982-2939. *Americana. Catalogue No. 33* Catalogue of maps, prints and views of all parts of North America, in State/Territorial sequence. pp 36, 239 items, 57 illustrations, list of references cited.  
**MAPPAMUNDI LTD.**, 5 Albemarle Street, London W1X 4EL. Tel: 01-493 9836. *A Collection of Maps*. General catalogue of maps and atlases of all parts of the British Isles and the World, compiled by J.N.H. Carrington. pp 28, 122 items, 36 illustrations.

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## Publications Received

**KLAER, U. and M. LEIMKÜHLER**: *Niedersächsische Staats-Und Universitätsbibliothek Göttingen. Zur Geschichte der Geographischen Wissenschaft 15. bis 17. Jahrhundert*. Göttingen 1979. pp [84]. 210 x 150mm. Paper. Illustrated exhibition catalogue issued on the occasion of the 42. deutschen Geographentages at Göttingen.  
**PUBLIC ARCHIVES CANADA/ARCHIVES PUBLIQUES CANADA**. *National Map Collection Annual Report 1976/1977. Collection nationale de cartes et plans Rapport annuel 1976/1977*. Ottawa, 1978. pp 65-78 of Public Archives Annual Report. 248 x 162mm. Paper.  
 —. *National Map Collection Annual Report 1977/1978*.  
*Collection Nationale de cartes et plans Rapport annuel 1977/1978*. Ottawa, 1979. pp 68-82 of Public Archives Annual Report. 248 x 162mm. Paper.



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# Compass Points

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## The first Printed Map To Show Japan

This section of the map of the modern world published in the 1511 Venezia edition of Ptolemy, edited by Bernardo Silvana, is the first western printed map to show Japan (See ZAMPA GV. INS) at the top. It is also the first edition of Ptolemy in two colours - black and red.



## The first printed Map to name New Orleans and Texas

A small section of Guillaume de L'Isle's famous map of Louisiana and the Mississippi region of 1718. While this map is of the greatest importance for its depiction of the Mississippi valley and the several French claims to lands in the Carolinas region, it may not be realised that it is the first printed map to mark and name Texas (Mission de los Teijas etablie en 1716), see centre of section, and also the first printed map to show New Orleans (Nle. Orleans) see bottom right. Other copies of the map examined bearing the same imprint and date ('A Paris chez l'auteur le S<sup>r</sup> Delisle sur le Quay de l'Horloge avec privilege du Roy Juin 1718') do not show the town, neither do many of the map's derivatives. It is possible that the name and town symbol were added hurriedly to the plate since the imprint is unchanged. This issue is not recorded by Cumming in *The Southeast in Early Maps*, 170, nor by R.V. Tooley in 'French Mapping of the Americas', *Map Collectors' Series No. 33*, item 43.





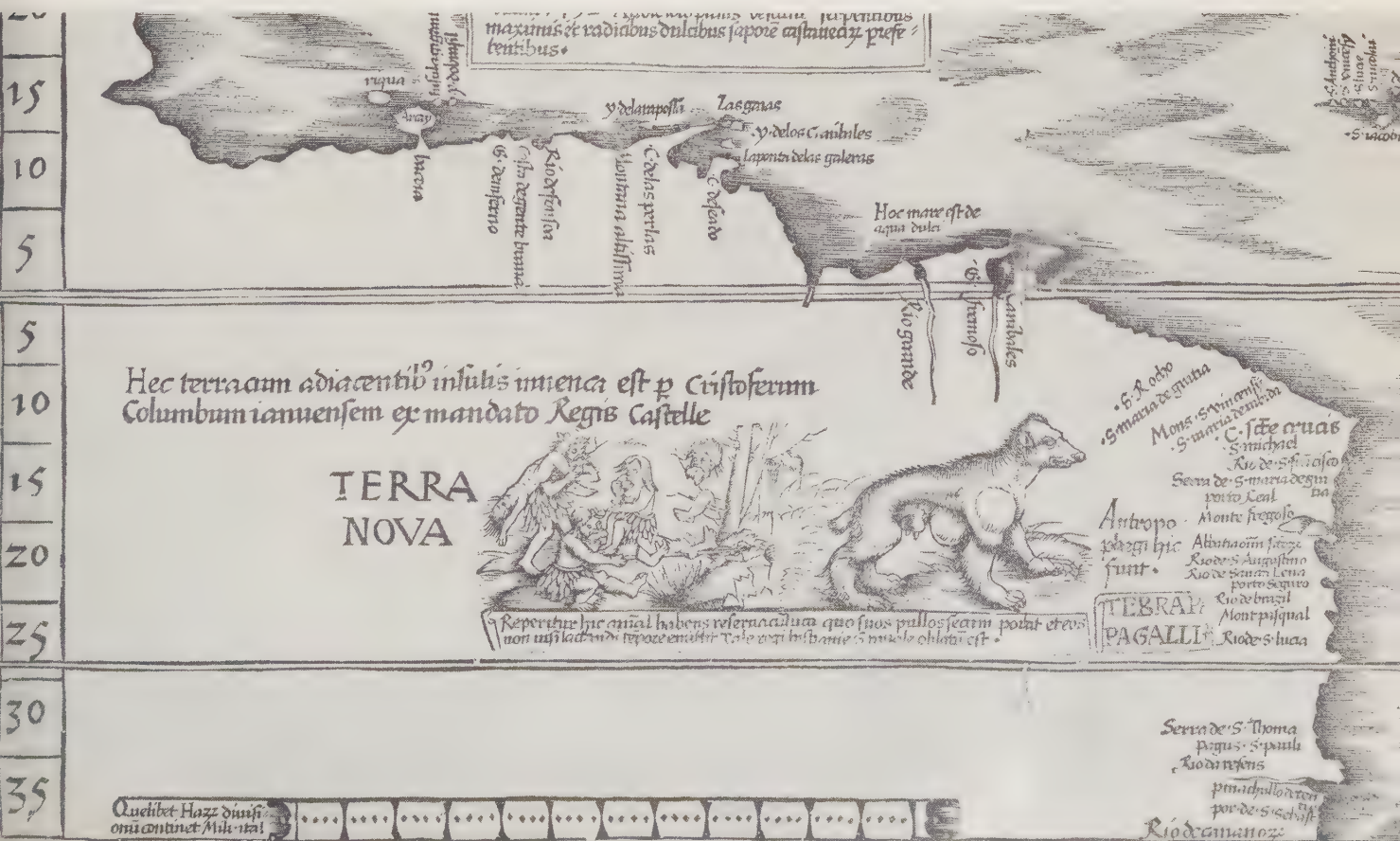


### The First Thematic Map

The reason that this map could be described as the first thematic map is that it is the first to show the religious allegiance of the population of a country. Centred on Praha, Sebastian Münster's map of Bohemia, indicates those towns with Roman Catholic inhabitants, shown by the Papal crown and crossed keys. Towns of the Hussite following are shown by a chalice symbol. Jan Hus (1372/3 - 1415), the reformer of Czech orthography was martyred by the Emperor Sigismund after a trial as a heretic at the Council of Constance. Hus' martyrdom sparked off a Czech national revolt against Rome and its German supporters. Other symbols used on the map indicate royal cities, castles, seats of the nobility and unfortified towns. The example shown was published in one of Münster's Basel editions of Ptolemy from 1545.

### One of the earliest drawings of Brazilian Cannibals

This is a section from a map of the New World (Terra Nova) first published in 1522 and is one of the earliest illustrations of the natives of Brazil. It is adapted from the large map of the world by Laurens Fries. Fries copied the opossum from the map of the World by Martin Waldseemüller of 1516.





# BOOKS ABOUT MAPS

Extracts from and additions to our 1980 catalogue of reference books in print.

66 LISTER, Raymond: *Collecting Old Maps and Globes* London, 1979. (255 x 190mm), 256 pages. Cloth. £9.95

Second, revised edition of this well-known book, published originally as *How to Identify Old Maps and Globes*, out of print for some years, with amendments and additions to the bibliography and the list of cartographers, etc.

154 WALLIS, H. and S.J. TYACKE eds: *My Head is a Map. Essays & Memoirs in honour of R.V. Tooley*. London, 1973. (245 x 180mm), pp xvi + 148. Cloth. £15.00

Essays by Tony Campbell, R.A. Gardiner, Eran Laor, A. de Smet, Sarah Tyacke, Coolie Verner and Helen Wallis in celebration of Ronald Vere Tooley's 75th birthday in 1973.

155 HAPGOOD, C.H.: *Maps of the Ancient Sea Kings. Evidence of Advanced Civilization in the Ice Age*. London, 1979. (245 x 185mm), pp xi + 276, 109 illustrations, index. Cloth. £7.95

Prof. Hapgood succeeded in decoding the more accurate maps of the Medieval and Renaissance times. He discovered that certain key maps often Medieval, were the most accurate and it became clear that they had been compiled from much older source maps, the information from which had been passed down, their origins forgotten.

157 EVANS, I.M. and H. LAWRENCE.: *Christopher Saxton Elizabethan Map-Maker*. Wakefield and London, 1979. (280 x 220mm), pp xvi + 186; 19 plates. Cloth. £20.00

158 van den KEERE, P. (Introduction H. WALLIS): *Atlas of the British Isles (c1605)*. Lymne Castle, 1972. (150 x 215mm), pp iv + 44, 44 plates. Cloth. Facsimile. £4.00

This very rare atlas was probably published at Amsterdam between 1605 and 1600 and as such is the earliest printed atlas of the British Isles.

159 PROCKTER, A. and R. TAYLOR (Introduction J. FISHER): *The A to Z of Elizabethan London*. Lymne Castle, 1979. (300 x 210mm), pp xii + 62, 32 plates, indexes. Facsimile. Cloth. £8.00

An index to the 'Agas' map of London (c1562), with the map printed in 28 sections, overprinted with place names.

160 TOOLEY, R.V.: *The Mapping of America*. Holland Press Cartographia vol. 2. London, 1980. (255 x 185mm), pp xix + 560. index. Cloth. £30.00

Includes reprinted articles from the former *Map Collectors' Series* by Coolie Verner, Tony Campbell, Henry Stevens and Roland Tree, R.A. Skelton. New chapters by Tooley include 'The Mapping of the Great Lakes' and 'The

Identification of the Maps of America in the various editions of the Theatrum of Ortelius'.

165 JÄGER, E.: *Bibliographie zur Kartengeschichte von Deutschland und Osteuropa*. Lüneburg, Nordostdeutsches Kulturwerk, 1978. (210 x 147), pp 92, 21 plates. Paper. £8.00

Bibliographical notes on the history of cartography with especial reference to (former) Northeast Germany, Prussia, Baltic States, the remainder of Eastern Europe and European Russia.

168 POST, J.B.: *An Atlas of Fantasy*. London, 1979. (215 x 280mm), pp xvi + 210. Paper. £3.95

A selection of some of the maps of maps of imaginary worlds drawn from the realms of fiction, from Swift, Tolkien, Burroughs, Milne, Conan Doyle and others, each with a descriptive essay by J.B. Post of the Free Library of Philadelphia.

171 DAY, J.M.: *Maps of Texas 1527 - 1900. The Map Collection of the Texas State Archives*. Austin, 1964. (220 x 145mm), pp vi + 178, index. Paper. £12.00

172 CORTESÃO, A. and A. TEIXEIRA DA MOTA: *Portugaliae Monumenta Cartographica*. Lisbon, Comissão Executiva do V. Centenário da Morte do Infante D. Henrique, 1960-62. (605 x 460mm) I-V vols + VI, index vol. Vol. I, lii + 180pp, 97 pl, 21 figs; II, xx + 136 pp, 143 pl, 14 figs; III, xx + 118 pp, 148 pl, 13 figs; IV, xx + 164 pp, 131 pl, 38 figs; V, xiii + 185 pp, 157 pl; VI, xxix + 108 pp. Simile vellum. (only one copy remaining). £750.00

This remarkable work, with its plates reproduced in a very high quality gravure process, many in full colour with gold print, is a tribute to its printer. The five huge volumes cover the history of maps and charts of Portuguese origin or inspiration dating from the late 15th to the early 17th century. The reproduction covers entire atlases as well as single charts and includes outstanding essays, forming a critical history of early Portuguese cartography.

174 BRITISH MUSEUM: *World. An excerpt from the British Museum Catalogue of Printed Maps, Charts and Plans. Photolithographic edition to 1964*. London, The Trustees of The British Museum, 1967. (335 x 230mm), 806 columns. Paper. £3.00

175 BRITISH MUSEUM: *London. An Excerpt from the British Museum Catalogue of Printed Maps, Charts and Plans. Photolithographic edition to 1964*. London, The Trustees of The British Museum, 1967. (335 x 270mm), 202 columns. Paper. £3.00

Revised prices: 36 £1.95, 129 £15.00, 132 £30.00. Titles currently out of print 1, 19, 20, 47, 78, 107, 142 and 146. See the 1980 catalogue for full terms of conditions of sale.

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# Collectors' Barometer

A continuous record of important items sold in auction.

Compiled by John Goss

THIS REGULAR AUCTION SECTION is intended to cover all major auctions of maps and atlases throughout the world. Every effort is made to report auctions as soon as possible although occasional delays may occur in obtaining details of prices realised. The reports include not only maps and conventional atlases but also books whose importance is governed primarily by the maps they contain rather than their other contents.

Lot descriptions for all articles realising £750 or more are reproduced in full. However, the totals at the foot of each auction cover all maps and atlases including those lots which realised less than £750. Prices quoted are 'hammer' prices to which should be added the buyer's premium where applicable.

Although auction results are helpful in forming judgements on general price trends over a period, it can be misleading to base any conclusion on the price realised for an individual lot. Prices for similar items can vary from auction to auction depending on the circumstances of the particular auction and the condition of the item offered for sale. Condition is very important and however well described can only be judged properly by personal examination.

The total realised for maps and atlases sold in auction reported in this issue amounted to £294,586.

Exchange rates used in this report:	DM	10-13 Oct	£1 = 3.7825	f	18-20 Dec	£1 = 4.2837
		13-15 Nov	£1 = 3.8175	US \$	26 Nov	£1 = 2.1595

## REISS & AUVERMANN, GLASHÜTTEN IM TANUS, 10-13 OCTOBER 1979 (PREMIUM 15%)

1 Bertius, P. Tabularum geographicarum contractarum libri septem. Amsterdam, J. Hondius, 1618. Qu.-8vo. Mit gest. Tit. u. 220 blattgr. Kupferstich-Karten mit gedr. Text verso. 7 Bll., 829 S., Bll. Ldr. d. Zt. mit Blindpr.; berieben, bestoßen u. am Rücken beschädigt. (69). Koeman Lan 11B u. I. S. 61. B6. — Sechste Ausgabe des hübschen Taschenatlas, eine Titelaufgabe der 5 von 1616, in der erstmals die neu gestochenen, gegenüber den früheren Auflagen etwas vergrößerten Karten erschienen. Enthält: 4 Weltkarten, 2 Polkarten, Windrose, Sternbilder, 155 Karten von Europa (dav. 20 von Deutschland), 28 von Asien, 15 von Afrika und 14 von Amerika. — Erstes u. letztes Viertel leicht, meist nur ganz schwach fleckenrandig. Tit. u. gedr. Vorstücke etwas stärker betroffen; dort 3 Bll. am Unterand ohne Textverlust gering beschädigt. Etwas locker im Einband.

DM 12,000

2 Geographischer eyn oder zusammengezogener Tabelln Fünff unterschiedliche Bücher. In deren I. die ganze Welt. II. Europa. III. Afrika. IV. America vorgebildet und beschrieben wirdt. Frankfurt, M. Becker für H. Lorentzen, 1612. Qu.-8vo. Mit gest. Titel vign. u. 168 blattgr. Kupferstich-Karten. 12 Bll. (L.w.) 830 S., 21 Bll. (L.w.) Prgt. d. Zt., etwas fleckig.

DM 8000

3 Homann Erben, Atlas compendiarius. Nürnberg 1752. Gr.-fol. Mit gest. Tit. mit Inhalt, 1 schemat. Tafel und 48 (statt 50) alkolorierte Kupferkarten. 40 S. Flexibler Or.-Ldr., beschabt (38) Phillips 3499. — Enthält Welt- u. Erdteilkarten, Deutschland, 20 deutsche Gebietskarten u.a. — Es fehlen die Postkarte von Deutschland sowie eine Karte Venedig. Bei 23 Karten (z. Tl. größere) Bugeinrisse.

DM 8000

4 Hornius, G. A full and exact Description of the Earth, or, Ancient Geography, both sacred and profane. Now rendered into English. London, T. Child; gedruckt in Amsterdam bei J. u. G. Janssonius à Waesberghe, 1700. Fol. Mit Front. u. 65 doppelblattgr. Kupf.-Ktn. 2 Bll., 36 S. Mod. Ldr. (111) Koeman Ja 8. — Erste englische Ausgabe. Atlas der Alten Welt, zuerst 1652 von Janssonius herausgegeben, mit einleitendem Text des Leidener Professors Georg Horn. Enth. Karte der Alten Welt, allein 10 Gesamt- u. Detailkarten von Israel, die von J. Lauremberg gezeichneten Karten von Griechenland und der griech. Inseln, eine Reproduktion der Peutinger'schen Tafel (in 4 Bll.), verschied. Nachstiche nach Orteius' Parergon-Karten u.a. Der vorliegenden Ausgabe wurden 13 Karten neu beigegeben, darunter die meisten Griechenland-Karten. Unser Ex. hat eine Karte mehr als das von Koeman beschriebene Ex. — Sauberes Expl. Einige Karten mit Wasserrand im Außensteg. Text, die ersten nd letzten Karten mit kl. Löchern (Messerstiche od. Schrotkugein), meist leicht restaurierbar

DM 4500

5 Mercator, G. Atlas minor. Das ist: Ein kurze, jedoch gründliche Beschreibung der ganzen Welt und aller jer Theyl. Durch Iodocum Hondium mit vielen Kupfern gebessert und vermehrt; und endlich in unsere hochteutsche Sprach versetzt. Amsterdam, J. Janssonius, 1631. Qu.-4to. Mit 143 blattgr. Kupferstich-Karten. 3 (statt 4) Bll., 600 S., 8 Bll. Prgt. d. Zt. mit geschwärzter ornamentaler Prägung u. Goldschnitt. (69) Koeman (Me 199). — Zweite deutsche Ausgabe des „Atlas minor“, die erste mit den 1628 von P. Kaerius, A. Goos u.a. neu gestochenen Karten. Enthält 1 Weltkarte in 2 Hemisphären, 1 Polkarte, 4 Erdteilkarten, 116 von Europa (dav. 24 Deutschland), 11 von Asien, 5 von Asien, 5 von Afrika und 5 von Amerika. Alle Karten mit einfachen Kartuschen, die Welt- u. die 12 Holland-Karten mit hübschen ornamentalen Umrandungen. — Schönes Exemplar. Papier gleichmäßig leicht gebräunt. Das gest. Titelblatt fehlt.

DM 9500

6 Mercator, G. Atlas sive Cosmographicae meditationes de Fabrica Mundi et Fabricati Figura. Denuo auctus. Editio quinta. Amsterdam, H. Hondius, 1623. Großfolio. Mit gest. Titel, doppelblattgr. Porträt von G. Mercator und J. Hondius und 156 (1 blattgr.) doppelblattgroßen Kupferstich-Karten. Schweinslederband der Zeit mit reicher Blindprägung auf beiden Decken u. Wappensupralibros. Ecken u. Kanten erw. bestoßen u. restauriert. (5) Koeman Me 27A. — Eine der umfangreichsten Ausgaben dieses Atlas. Unser Exemplar stimmt in der Kollation vollkommen mit Koeman überein. — Durchgehend gleichmäßig leicht gebräunt, nur einige Karten am Rand etwas fleckig, meist nur im weißen Außenrand. Gest. Titel knitterig u. weißer Unterrand verstärkt, Proträt u. einige Karten im Bug etw. aufgeplatzt bzw. geknittert. Wenige Karten im weißen

Außenrand verstärkt, Irland-Kte. größerer Einriß restauriert.

DM 48,000

7 Schenk, P. Neuer Sächsischer Atlas. Amsterdam und Leipzig, P. Schenk u. Sohn, 1760. Gr.-fol. Drucktitel, 56 doppelblattgr. (1 gefalt.), kol. Kupf.-Ktn. u. 16 Bll. Registerheft (in 4to, dat. 1758). Hrptg. d. Zt. (111) Koeman Sche 16. — Der bekannte Spezialatlas von Sachsen, Sachsen-Anhalt, Ober- u. Niederlausitz. Hier wohl in der endgültigen, m von ursprünglich 38 auf 56 Karten erweiterten Form. Zur vorl. Ausgabe gibt Koeman keine Kollation; unser Expl. entspricht aber exakt der holland. Ausgabe von 1810 (= Sche 17). Enth. u.a. die prachtvolle Karte des erzgebirgischen Bergbaus in 2 Blatt, am Schluß Karten von Teplitz, Eger u. Karisbad in Böhmen, tlw. mit Randansichten. — Sehr schönes Expl.

DM 7000

8 Schreiber, J. G. Atlas selectus von allen Königreichen und Ländern der Welt. Leipzig (1749). Qu.-4to. Altkolor. Kupfertit., Meilenzeiger u. 127 (statt 128) altkolor. Kupferkarten. 1 Bl. Inhalt. Hldr. d. Zt., bestoßen. (3) Phillips 609. — Schönes Exemplar mit ausgemalten figürlichen und ornamentalen Kartuschen. Enthält Welt- und Erdteilkarten, ca. 90 Gebietskarten des deutschsprachigen Raums u. a. — Es fehlt die letzte Karte „Das gelobte Land“. In den weißen Rändern meist stockfl. Die Tafeln hs. mit Tinte numeriert.

DM 12,800

9 Bellin, N.J. & J. Roux. Atlas maritime. Genua. Yves Gravier, 1801. Imp.-Fol. Gest. Front., kol., gest. Flagentafel, u. 35 meist gefalt., gest. Seekarten, 1 Bl. gedrucktes Inhaltsverz. Ldr. d. Zt., etwas beschäd. u. stark beschabt, locker. (114) Vgl. Phillips 589 u. 590. — Von dem Verleger Yves Gravier veranstaltete Sammelausgabe von älteren Seekarten aus dem offiziellen Kartenwerk der französ. Admiralität „Hydrographie françoise“, dessen Karten von N.J. Bellin stammen. Hinzugefügt wurde die große Seekarte des Mittelmeeres in 12 Faltblättern von J. Roux, 1764. Die Karten Bellins haben Datierungen zwischen 1751 u. 1774, zwei mit Überarbeitungsvermerken von G. Brun, 1797. Von diesem stammt auch die einzige Karte, die wohl neu angefertigt wurde: südl. Teil der nordamerikan. Küste von New Jersey bis Georgia. 1799. — Hervorzuheben ist die prachtvolle Flagentafel mit großen Darst. von 2 Seeschlachten, einem Schiff mit seiner Betakelung u. einem waitern mit der Besegelung; ferner die große Übersichts-karteder Weltmeere, Pazifikkarte von 1766 (mit Teilen Australiens). Schließlich 5 See- u. Küstenkarten von Amerika. — Alle Karten einzeln verkauft. Wohlerhalten auf starkem Papier. Am Unterrand tlw. etwas braunfl.

DM 9000

10 Seutter, M. Atlas minor, praecipua orbis terrarum imperia, regna et provincias, Germaniae potissimum, sistens. Augsburg (um 1745). 4to. Mit doppelblattgr. altkolor. gest. Tit. u. 64 doppelblattgr. altkolor. Kupferstich-Ktn. mit Kartuschen. 34 Bll. Flex. Ldr. d. Zt. mit Lasche u. Schnurriemen, berieben. (8) Phillips 3494. — Schöner altkolorierter Taschenatlas. Die Karten nach M. Seutter u. A.C. Seutter gest. v. T.C. Lotter, A.C. Seutter u. A. Silbereisen. Die jeweils angränzenden Gebiete nur grenzkoloriert, die hübschen figürl. Kartuschen unkoloriert. Enth. 1 Weltkte. in 2 Hemisphären, 5 Erdteilktn. (dav. 2 Amerika), 55 Europaktn. (dav. 22 Deutschland), u. 3 von Asien. — Gest. Tit. am Bug etw. eingerissen. Text tlw. stockfleckig. Letzte Ktn. im Rand gering (4 etw. stärker) wasserrandig, die bieden letzten Ktn. (Tartaria u. Terra Sancta) außerdem mit winzigem Loch. Sonst schon u. sauber

DM 10,000

11 Leti, G. Ritratti historici, o veré, Historia dell'Imperio Romano in Germania. 2 Bde. Amsterdam 1689. Gr.-4to. Mit 2 Titelkupf., Portr. des Verfassers, 21 gefalt. Porträtkupfertaf., 30 blattgr. Kupf.-Ktn. und 32 Ansichten auf 29 gefalt. Kupfertaf. Beschäd. Ldrbde. d. Zt. (25) Graesse IV, 182/3. — Sehr seltenes Werk, auf Kosten des Autors gedruckt. Die Ansichten, meist in Qu.-fol., sind nach Braun-Hogenberg gestochen bzw. von den Wenzel Hollar-Platten abgezogen und zeigen Aachen, Augsburg, Bamberg, Bremen, Frankfurt a. M., Hamburg, Heidelberg (2 verschiedene), Koblenz, Köln, Linz, Lübeck, Mainz, München, Münster, Neuss, Nürnberg, Oppenheim, Osnabrück, Regensburg, Rothenburg o. d. T., Salzburg, Straßburg, Trier, Ulm, Wien, Konstantinopel, Rom und den Donaustudel, die hübschen kleinen Karten zeigen Welt, Afrika, Asien, Europa, Deutschland (12), Schweiz (2), Österreich (2) usw. — Durchgehend etw. gebräunt, einige Tafeln stärker. Die Taf. trotz der Knickfalten wohlerhalten, nur ganz wenige mit kl. Einrissen in den Falstellen.

DM 30,000

12 Merian, — (Zeiller, M.) Topographia Franconiae. Das ist

Beschreibung der Vornembsten Stätte, die zu dem Fränkischen Craiß gezogen werden. Frankfurt, M. Merian, (1648). Fol. Mit gest. Tit., gest. Wappen im Text, 1 Kupf.-Kte. und 47 Ansichten auf 42 tlw. doppelblattgr. oder gefalt. Kupfertaf. (2 Doppelkupf. als 1 gezählt). Hldr. (93) Schuchard 40 A. — Erste Ausgabe. Die Kupfer n schönen Abdrucken. — Ansichten von Eichstett, Bamberg u. Coburg seitlich knapp beschnitten. Doppelblattgr. Ansicht von Würzburg eingerissen. Einige kleine Randeinrisse hinterlegt Tle. etw. stockfl.

DM 10,000

13 — — Topographia Palatinatus Rheni et vicinarum regionum. Das ist Beschreibung ... der Vornembsten Statte der Untern Pfaltz am Rhein. Frankfurt, M. Merian, 1645. Fol. Mit gest. Tit., 3 doppelblattgr. Kupf.-Ktn. u. 91 Ansichten auf 58 tlw. doppelblattgr. oder gefalt. Kupfertaf. (Doppelkupf. Worms als 1 gezählt). Hldr. (93) Schuchard 30 A. — Erste Ausgabe. Schöne Abdrucke. Aus dem bei Schuchard genannten Anhang sind 3 (von 6) Tafeln beigegeben. — Tafel Oppenheim seitlich mit kleinem Bildverlust beschnitten. Bei einigen Tafeln kleine Randeinrisse bzw. Ausrisse hinterlegt. Tlw. etw. stockfl.

DM 22,000

14 — — Topographia Sveviae, das ist Beschreib- und Abcontrafeitung der furnembsten Statt und Platz in Ober- und Nider Schwaben, Württemberg, Baden. Frankfurt, M. Merian, 1643. Fol. Mit gest. Tit., 2 Kupf.-Ktn. u. 101 Ansichten auf 58 tlw. doppelblattgr. oder gefalt. Kupfertaf. Hldr. (93) Schuchard 22 A. — Erste Ausgabe Schöne, kräftige Abdrucke. Mit den beiden von Sch. in einem Expl. nachgewiesenen Zusatztafeln: Schwäbisch Hall u. Hohenzollern. — Ansicht Bregenz bis zum Bildrand beschnitten.

DM 30,000

15 — — Topographia Superioris Saxoniae, Thuringiae, Misniae, Lusatie. Das ist Beschreibung der Vornembsten Stätt in Churfürstenthum Sachsen, Thüringen, Meissen, Ober und Nider Lausitz. Frankfurt, M. Merian, 1650 (1690). Fol. Mit gest. Titel, 4 (statt 5) Kupf.-Ktn. u. 86 Ansichten auf 61 tlw. doppelblattgr. bzw. gefalteten Kupfertafeln. Mod. Ppbd. (25) Schuchard 59 B. — Zweite Ausgabe, die Kupfer in schönen, klaren Abdrucken. Die von 2 bzw. 3 platzen gedruckten Kupf von Gotha u. Elbstrom jeweils als 1 Taf. gezählt. — Durchgehend leichter Wasserrand in der unt. Blatthalft, nur bei wenigen Taf. etw. stärker. Taf. tlw. unten vom Falz gelöst. Fehlen die Karte von Thüringen u. der gedruckte Titel.

DM 8500

16 Israel. „Tabula moderna Terre Sanctae“. Holzschnittkarte nach C. Waldseemüller aus der Ptolemaeus-Ausgabe 1513. Qu.-fol. — Frühe Israel-Karte in einem sehr schönen Expl. (113)

DM 5300

17 — „Palaeatinae sive Terre Sanctae descriptio“. Kupf.-Kte. v. J. F. della Gatta, Rom 1557. Mit großer figürl. Kart. Qu.-fol. — Leicht fleckig, an den Rändern tlw. etwas hinterlegt. (110) Tooley, Mapmakers 102. — Große Seltenheit. Einblattdruck, anscheinend die einzige kartograph. Arbeit des in Rom ansässigen Stechers und Verlegers.

DM 7500

18 — Österreich. „Die F(ür)st(liche) Grafschaft Tirol“. Von 12 Platten gedruckte Kupferstich-Karte von Andreas Spängler nach Matthias Burgklehner (auch: Burglehner), 1629. Mit 2 großen Wappenkart., Schriftband mit titel und breiter Bordüre mit Wappen, Windgöttern etc. 165:156 cm. Mit einigen kl. Randeinrissen u. minimaler Fehlstelle im Rand unten rechts auf Lwd. aufgezogen u. an 2 Holzrollen befestigt. Ränder von 2 Platten oben schwach abgedruckt. (102) Dorfinger/Wagner/Wawrik. Descriptio Austriae. 90 — Außerst seltene, sehr dekorative Wandkarte. D-W-W nennen nur 4 bekannte Exemplare. „Die große dekorative Tirol-Karte des B. findet ihren Ursprung in den zahlr. Grenzkommisionen, die der Tiroler Rechtsgelehrte im Auftrag der Stände unternahm. Dem äußeren Typ nach gehört die Karte zu den sog. Inselkarten, das heißt, sie zeigt nur Tirol, während die angrenzenden Länder von großen Wolkenbänken verdeckt sind. Die Zeichnung zur Karte ist 1607/08 in kurzer Zeit entstanden. Im Mai 1608 wurde Hans Rogel als Holzschneider beauftragt, erst 1611 vollendet. Eingetümlicherweise wurde die Holzschnittkarte aber nicht gedruckt. 1629 ließ B. eine Kupferplatte von Spängler ausarbeiten und ausdrucken“ (D-W-W, a. O.) Von den Holzstocken, die heute noch im Kunsthistor. Museum in Wien lagern, wurde erst im 18. und 19. Jhdt. eine Anzahl von Abzügen herausgegeben. — Für eine riesenkarte dieser Art sehr gut erhalten.

DM 9500

TOTAL MAPS AND ATLASES DM 303,040 (462 lots)



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# HARTUNG & KARL, MÜNCHEN, 13-15 NOVEMBER, 1979 (PREMIUM 15%)

19 — (Grynaeus, S.u.J. Huttichius). Novus orbis regionum ac insularum veteribus incognitarum, una cum tabula cosmographica, et aliquot aliis consimilibus argumenti libellis, quorum omnium catalogus sequenti patebit pagina. Basel, Hervagen, 1532. Fol. 24 Bll., 586 (falsch 584) SS., 1 Bl., 1 mehrf. gef. Holzschn.-Karte v. H. Holbein. Mit 20 Holzschn., 40 Holzschn.-Init. u. 2 Druckern. a. Anf. u. Schl. Holzdeckelbd. d. Zt. mit blindgepr. Schweinsldrbz., 2 Schl. (Schließbänder fehlen). Graesse III, 165; Adams G 1334; Harris 171; Sabin 341(00); Heekethorn 123, 384; Cat. of the J. Carter Brown Libr. I, 104; Böhme S. 49 (Mit Abb.). — Außerordentlich seltene erste Ausgabe dieser unter Mithilfe des Mainzer Domherrn Joh. Huttichius gesammelten Reisbeschreibungen der großen spanischen u. portugiesischen Entdecker. Von besonderem Interesse sind die frühen Berichte über Amerika. Die oft fehlende große Weltkarte gilt als gesichertes Werk Hans Holbeins d. J., elliptisch abgeplattete Erdkugel wird von Engeln an den Polen mit Hilfe von Kurbeln gedreht (ausf. Beschr. im Kat. d. Basler Holbein-Ausst. Nr. 428). Die beiden Textholzschnitte sind ebenfalls v. Holbein. (Kogler, Jahrb. d. Preuss. Kunsts. Beih. 28, 112), desgleichen die großen figürlichen Initialen (Jennings, Early Woodcut Initials 143), einige Initialen v. J. Faber. — Tit. unten mit altem Besitzvermerk, wenige Bll. mit alten Randanmerkungen. Die beiden ersten Bll. gering fleckig, sonst fast fleckenloses u. schönes Expl.

20 — Ptolemaeus, Cl. Cosmographia. (Übers. v. Jacobus Angelus, hrsg. v. Domitius Calderinus). Rom, Buckinck, 10. Okt. 1478. Gr.-Fol. Text: 70 Bll., le. w.; 27 kolor. Kupferstichkarten auf 54 Bll. Hldr. Hain-C. 13537; BMC IV, 78; Pr. 3613; Goff P 1083; Klebs 812, 3; Nordenskiöld, Facs.-Atlas, 14, 4; Sander 5975 u. Abb. Taf. 750. Ungemein seltene Ausgabe! Kein Exemplar Jb. d. Bücherpreise seit 1906 und in Book Auction Records seit ca. 50 Jahren. "Scheinwein ist nicht, wie Haebler. Die deutschen Drucker im Auslande 1924, S. 17, und Inkunabelkunde S. 97 anzunehmen scheint, der Stecher, sondern er leitete nur die Kartenmacher in der Kunst des Kupfstiches an. Kristeller (Mitteilungen des Ges. f. vermind. Kunst 1907, S. 12f.) nimmt an, daß diese Stecher aus Venedig stammen" (Sander). "The maps of this edition were, as Masterpieces of copperplate printing, not surpassed for centuries. ... a very practical and convenient manner of indicating the mountains is used in this maps..." (Nordenskiöld). Auf Bl. A<sup>2</sup> eine schöne, zeitgenöss. Initiale C in Gold u. Farben mit grüner Randbordüre. Text durchwegs in rot u. blau rubriziert. Alte Bogensignaturen in Tinte u. alte Folierung, die Lagen B-G falsch eingebunden. Breitrandig (393:280 mm. Satzspiegel 282:195 mm). Auf der weißen Seite 1 u. an den Rändern einzelne Amnkgn., dann Textunterstreichungen, auf dem weißen Bl. 70 ein altes hs. Kartenverzeichnis. Das Kolorit (gelb, grün, blau, ocker, rot, rosa) dürfte aus dem 20. Jhdt. stammen. Es ist dünn u. läßt die Schönheit des Kupferstiches noch gut zur Wirkung kommen. An den weißen Stellen der Kupfer teils Plattenschmutz. Auf Bl. A<sup>1</sup> stärkere Rasurstellen, dadurch 2 kl. Löcher, ein Einriß von ca. 3 cm geklebt. Die Karte Italien unten mit Einriß ca. 10 cm. Die erste Rücks. d. Karten jeweils mit kurzer Titelangabe in Tinte.

21 — Geographicae enarrationis libro octo Bilibaldo Pirckeymhero interprete. Annotationes Ioannis de Regio Monte in errores commissas a Jac. Angelo in translatione sua. Straßb., Grüninger u. Kobberger, 1525. Fol. 82 mm., 48 unen. Bll., 98 Bll. mit 49 dplgr. kolor. Holzschn.-Ktn., 1 blgr. kolor. Holzschn.-Kte., über 80 reich verz. kolor. Holzschn.-Bord. incl. Tit., 6 gr. kolor. Holzschn. u. viel. Holzschn.-Init. u. kolor. Holzschn.-Kopfeisten, Holzdeckelbd. d. Zt. mit blindgepr. Schweinsldr.-Bez., Messing-Eckbeschl., 2 Messing-Schl. Panzer VI, 107, 698; Harris 136; Edd. 78; Nordenskiöld 22, 15; Schmidt, Grüninger, 222. — Mit Holzschnitten verschwenderisch ausgestattete, kostbare Ausgabe. Die großen, rucksseitig mit Bordüren verzierten Holzschnitt-Karten sowie die 6 Holzschnitte, welche durch Figuren, Tiere, Häuser, Pflanzen etc. die versch. Erdteile symbolisieren, in kräftigem Altkolorit, in neuerer Zeit überarbeitet. Vier der Karten zeigen Amerika, eine dieser Karten enthält eine Beschreibung der Entdeckung Amerikas durch Columbus, die letzte Karte (Weltkarte von 1522) ist datiert u. signiert L(aurentius) F(risius). Der blattgroße Holzschnitt auf Bl. 69 v. Alamparillarsche, ungeben von 12 blasenden Köpfen) ist von Dürer (Passavant 202, M. 262 u. XXI/II, Abb., Winkler S. 376), tit. mit altem Namenseitrag, der ersten Bll. u. das le. Bl. am unteren Rand etwas fingerfleckig, Anfang u. Schluß am unteren Innenrand wasserfleckig. Vereinzelt kl. Flecken, meist durch das Kolorit. Von diesen unwichtigen Mängeln abgesehen, innen u. aussen jedoch vorzüglich erhalten. — Siehe farb. Abbildung auf dem Umschlag — Rückdeckel innen mit alten Einträgen von 3 Händen: "Pro 7/5 flor Renen Jacobus Woler Dantiscus Lipsie comparavit. Dedit totide(m) pro compactura et illu(m)nat(i)o(n)e Michel Blank vom selig h. Magistro Thoma Schwegel."

22 — Schedel, H. Liber chronicarum. Nbg., Kobberger, 1493. Gr.-Fol. 20 unen., 299 num., 6 unen. Bll. mit ca. 1800 kolor. Holzschnitten v. M. Wöhlgemut u. W. Pleydenwurff, 1 w. Bl. Holzdeckelbd. d. 17. Jhds. mit Wilddrbhz., 10-teilig, zisel. Beschläge, 2 Schl. Hain-C. 14508; BMC II, 437; Goff S 037; Schreiber 5205. — Erste lateinische Ausgabe, ca. 1/3 Jahr vor der deutschen Ausg. erschienen, auf kräftigerem Papier und mit klareren Abdrucken der Holzschnitte als letztere. — Schönes, verhältnismäßig breitrandiges Expl. Das Kolorit dürfte aus der Zeit des Einbandes stammen. Durchgehend rubriziert, die Initialen im Reg. rot, blau u. gelb gemalt. Die weißen Ränder stellenw. wasserfl., ur allem im w. auß. Oberrand Feuchtigkeitsschaden, der anfangs moderig mit kl. Papierausschub ist, die ersten Bl. dabei mit Papierausschub. Tit. im w. Rand kaum sichtbar restauriert, Bl. 180 mit leichtem Textverlust unten erganet, Bl. 131 einige mm kürzer.

Schließbänder erneuert.

23 — Bry, Th. de. (Americae. Tie. 1 - 5) in 1 Bd. Ffm. (1590-95). Fol. Mit 6 (st. 8. dav. 3 wdh.) Kupfer.-tit., 4 (st. 5) dplgr. gest. Ktn., 30 (st. 31) Kupfertaf. u. 135 (st. 137) teils blattgr. Textkupf. Umschl. Sabin III, SS. 24-38. — Erste. Ausgabe der ersten 5 Tie. der sog. "Großen Reisen" mit lat. Text. Äußerst selten. — Dem vorliegenden Expl. fehlen in TI. 1: Kupfertit., die darauf folgenden SS. 3-34, die Taf. mit Darst. "Adam u. Eva" sowie Bl. III mit 1 Textkupf. Der TI. beginnt mit d. (aufgez.) typogr. Tit. Widmungs- u. Indexbll. verbdn. — Tie. 2: Cplt. — TI. 3: Fehlt Kupftit., das 1. Bl. nach d. Widmungsbll. (darauf 1 blattgr. Kupf.), ferner die Kte. "Americae pars magis cognita" sowie SS. 19-22. It. Sabin, der Expl. kennt, bei denen S. 144 weiß ist, existieren Drucke - wie hier - mit d. Taf. "Adam u. Eva", die gleiche, wie im TI. 1. — TI. 4: Ohne das w. Bl. vor d. wdh. Kupftit. am Ende, Taf. 1 mit etw. Bildverlust seitl. angerändert. — TI. 5: Taf. 11-22 aufgezogen, dabei Taf. 11 mit Textverlust in unt. re. Ecke, Taf. 18-22 mit etw. Bildverlust in ob. li. Ecke. SS. 78-88 in d. Pag. übersprungen. — Vereinzelt etw. wasserfleckig, kl. Ausbesserungen, die Ktn. knapp beschnitten. Einige Bll. angefalzt, hin u. wieder Gebrauchsspuren.

24 — Atlante novissimo, illustrato ed accresciuto... 4 Bde. Venedig, Zatta, 1779-85. Gr.-Ou.-Fol. Mit 4 wdh. gest. Frontisp., 3 (st. 4) Kupftit. u. 210 (st. 224) kolor. gest. Ktn. Pgt. d. Zt. (1) u. Ldr. d. Zt. (3). Vgl. Phillips 651 (mit abweichender Kollation). — Alle Karten sauber u. sehr frisch mit Kolorit. Es fehlen in Bd. I lt. hs. Inhaltsverz. die Ktn. 4 u. 7 sowie in Bd. IV die Gesamtktn. v. Asien, Afrika u. Amerika, Kanada, Mittelamerika, Hudson Bay, Terra Nuova, ferner Rußland mit Asien, Neuseeland u. a. Frontisp. lose, darauf v. Bdn. 2-4 mit d. Jahreszahl 1779 die Bandzahl hs. ergänzt. Kupftit. mit Inhaltsangabe v. Bd. 1 fehlt. Einbde. mit Gebrauchsspuren u. Defekten.

25 — Bodenehr, G. Atlas curieux oder Neuer und Compendiöser Atlas. Augsb., Bodenehr, ca. 1705. Qu.-4°. Tit., 1 Bl. Inhalt, 96 (st. 98) kolor. Kupferkarten, 3 Kupfertab. Pp. d. Zt. Enth. 4 Weltkarten die Erdteile, sowie Karten aller europ. Länder. Besonders zahlr. vertreten sind südd. Spezialkarten. — Zuf. Reg. fehlen Taf. 100 Rußland u. 101 Ungarn, dafür vorh. 102 nördl. Rußld. u. Finnland. Anfangs etw. wasserfl., durchwegs re. u. mehr od. weniger fingerfl. Nr. 69 Landsberg stark beschäd., 73 Lech im Bug gebrochen u. in 2 Stücken, ebenso 2 Tab. Die Ränder, vor allem re. außen, bei mehreren Karten knapp od. etwas besch. Der provisorische Ebd. stark beschädigt.

26 — Falk, Gerh. Nova totius geographica telluris projectio. Amst. 1706. Gr.-Fol. Gest. kol. Tit., 74 kolor. dplgr. Kupferstichkarten, 1 Bl. Register. Hldr. d. Zt. Enth. Weltkarte, Polkarte, 4 Erdteile, Großbr., u. Irland 4, Skandinavien, Dänemark, Rußld., Frakr. 19, Deutschld u. Österr. 23, Benelux 6, Böhmen, Polen, Livland, Schweiz, Mittelmeer, Spanien 2, Portugal, Italien 6, Türkei, Balkan, Ungarn, Palästina, Amerikan. Inseln. Alle Karten einschl. d. Kartuschen in schönem Altkolorit. 3 Karten übergroß u. dreimal gefaltet. Einzelne kl. Papierdefekte od. Löchlein, Ränder hier u. da verstärkt, einzelne Einrisse. Einband mit stärkeren Gebrauchsspuren.

27 — Homann, Atlas. Nbg. ca. 1700. Imp.-Ou.-Fol. 95 kolor. Kupferstichkarten. Hldr. d. Zt. (beschäd.). Die Karten in schönem Kolorit. Enthalten sind die Weltkarte, die 4 Erdteile, Detailkarten v. Afrika (3), Amerika (6), Asien (10), 1 Seekarte (Sizilien, Sardinien, Korsika), v. Europa: Dtschld. (17), England (4), Pyrenäen (2), Frankreich (12), Österreich, Böhmen u. Mähren, Beneluxländer (8), Italien (9, darunter 1 v. d. Poebene), Schweiz, Griechenland u. Türkei, 1 dreiteil. Donaukarte, Ungarn, Skandinavien (5), Polen, Baltikum, Rußland (3). — Bugfalten hinterlegt, tls. mit stärkeren Einrissen u. Randausbesserungen. Mehrere Ktn. etw. knitterfältig u. fingerfleckig, sonst gut erhalten.

28 — — Sammelband mit 30 kolor. Kupferktn. Pp., Homann u. Homann Erben, ca. 1720—84. Gr.-Fol. Nbg. d. Zt. Enth. 2 Weltkarten, Europa, Afrika, Amerika (2), Asien (2), Spanien, Großbritannien, Benelux, Schweiz, Italien, Deutschland (2 Gesamtkt. u. Einzelktn., dabei Bayern (2), Hessen, Nordrhe. Westfalen, Sachsen etc.), Griechenland, Österreich, Skandinavien u.a. — Bis auf wenige Ausnahmen alle Ktn. im Bug mit meist großen Einrissen, teils mit Fehlstellen. Nicht frisch. 1 Karte nur zur Hälfte vorh. Starke Gebrauchsspuren. — Beilieg: 1 (dopp. vorh.) kolor. Kupferst.-Kte. v. Karolingischen Reich. Um 1700 Ou.-Fol. (1 im Bug einrissen u. im w. Rd. li.)

29 — Sammelband mit 37 kolor. Kupferst.-Ktn. Amst., Danckerts, Schenk u. Valk u. Nbg., Homann 1706 — ca. 1720. Gr.-Fol. Hpgt. d. Zt. Alle Karten altkoloriert, Dabei: Spanien, Frankreich, Großbritannien (4), Benelux (2), Schweiz, Italien, Österreich, Deutschland mit viel. Detailktn., darunter Bayern (3), Baden-Württemberg, Hessen, Niedersachsen (mit kl. Ansicht v. Hamburg), Skandinavien, Dänemark, Afrika, Rußland, Amerika, Mittelmeer u. v. a. Teils in sehr frischen Abdrucken. 1 Kte. mit Knickfalte am Bug, 4 mit Einrissen unt. im Bug. Karte v. Rußland stark gebräunt, Gesamtkte. v. Deutschland fleckig, unt. mit kl. Einrissen. Einbde. mit Gebrauchsspuren u. Defekten.

30 — Visscher (d.J.), N. Atlas minor sive geographica compendiosa, qua orbis terrarum per paucas attamen novissimas tabulas ostenditur. Amst., Visscher, um 1693. Gr.-Fol. Kolor gest. Front., Tit., 106 (104 dplgr., 2 mehrf. gef.) kolor. Kupftktn., 1 kolor. Bl. Inhalt. Pgt. d. Zt. (Bindebänder fehlen). Vgl. Koeman Vis 16. — Die Karten stammen größtenteils v. de Wit (54) u. N. Visscher d. J. (29); d. anderen Autoren sind Allard (6), Jansson (6), Blauw (3), Sanson (2), Danckerts (2), Templeux



(1) u. Penez (1). Zwei weitere Karten sind ungezeichnet u. vermutl. v. Allard. Der enthält in prächtigem zeitgen. Kolorit: Welt, Amerika, Afrika, Asien, Europa, Iberische Halbinsel (7), Frankreich (18), Italien (9), Mitteleuropa, Nieder- u. Oberhenn, Deutschland (19), Österreich, Böhmen, Ungarn (2), Schweiz, Niederlande (15), Skandinavien (8), Polen, Russland, China, Australien, Arabien/Persien, Ottoman. Reich, Hl. Land, Griechenland (3), Malta, Großbritannien (4), Belgien (2), — Buchblock v. Einbd. gelöst. Im Bug hier u. da unbedeutende Quetschfalten. Bei einigen Karten hat sich d. Grün im Einfassungskolorit etwas durch d. Papier gefressen; diese Stellen sind sorgfältig unterlegt. Davon abgesehen sehr schönes, fast fleckenreies Expl.

31 — Hulsius, L. (Slg. v. 26 Schiffahrten in verschied. fremde Länder, aus d. Holland, übers u. mit Amnkgn. verschied. Aufl.). Tie. 1—6 (von 26) in 1 Bd. Nbg., Hulsius, 1602-03. 4. Mit 6 gest. Titvgn., mehr. Wappenkupfer u. 92 (st. 99) Kupftaf. u. -ktn. Hldr. Ende d. 18. Jhds. I. Erste Schifffahrt. Inn die Orientalische Indien So die Holland. Schiff... verricht. 3. Aufl. 1602. Tit. mit gest. Vign., Widm.-Bl. mit Wappenkupf., 76 SS., 13 Kupftaf. (Sabin 33653; Enth. eine Kte. v. Mittelmeer u. Nordafrika, 1 Weltktge., Abb. v. Eingeborenen u. a. — Vermutl. fehlt ein Bl. aus d. Titelei). — II. Ander Schifffahrt in die Orientalische Indien, So die Holland. Schiff 1598 aufgefaren... u. 1600 mit gr. Schatz u. Würtz wider kommen sind. 1602. Tit. mit gest. Vign., 126 SS., 15 Kupfertaf. (Sabin 33654; Erste Ausgabe. — Eine der beiden Ktn. nur z. Hälfte v. d. Platte abgedruckt. — III. (Gerhard de Veer). Warhaftige Relation. Der dreyen neuen vnerhörten, seltzamen Schifffahrt... (nach) Norrwegen, Lappiam, Biarmiam, vnd Russland... 2. Aufl. 1602. Tit. mit gest. Vign., Widm.-Bl. mit Wappenkupf., 7 Bll. mit gr. Holzschn., 121 SS., 32 (st. 34) Kupfertaf. (Sabin 33655; 2. Ausgabe dieses interessanten Reiseberichtes, in dem die frühesten Expeditionen der Holländer z. Auffindung eines nördl. Schifffahrtsweges nach Indien u. China geschildert werden. Die Kupfer sind die frühesten Darst. der Erforschung der Arktis. Sie schildern das Leben u. Gewohnheiten der Bewohner, Walfang, Kampf mit Bären, Kampf mit d. Eis u. v. a. — Es fehlen eine Kte. u. eine weitere Kupftaf.). — IV. Schmidel, Utr. Vierte Schifffahrt. Warh. Historien Einer Wunderbaren Schifffahrt, welche Utr. Schmidel v. Straubing, von Anno 1534 biß Anno 1554 in American oder Newenwelt, bey Brasilia vnd rio della Plata gethan... 2. Aufl. 1602. Tit. mit gest. Vign., 3 Bll. mit Wappenkupf., 103 SS., 16 (st. 17) Kupftaf. (Sabin 33656; Borna de Moraes I, 349 nennt die Erstausg. — Klassisches Americanum, das erstmals 1567 in Frankfurt, dann wieder in der Bry's Reisen erschienen ist. Schmidel gilt als der erste Geschichtsschreiber der La Plata-Länder, die früheste Ansicht v. Buenos Aires ist hier enthalten. Dabei weiter ein Portr. v. Schmidel. — Es fehlt 1 Kte. u. evtl. 1 weiteres Kupf. Laut Sabin mit 17 Kupf. kplt.). — v. Raleigh, W. Kurtze Wunderbare Beschreibung. Deß Goldreichen Königreichs Guianae in Amerika od. neuen Welt... So newlich Anno 1594-96 v. W. Raleigh besucht worden. (3. Aufl.), 1603. Tit. mit gest. Vign., 1 Bl., 17 SS., 1 Bl., 6 (st. 7) Kupfertaf. (Sabin 3368; Die Kupfer mit Abb. v. Eingeborenen, Amazonen, Tieren u. Landschaften.). — VI. Kurtze Warhaftige Relation d. wunderbarsten vier Schifffarten, so jemals verricht worden. 1603. Tit. mit gest. Vign., 2 Bll. mit Wappenkupf., 53 SS., 10 (st. 14) Kupfertaf. (Sabin 33660; Erste Ausgabe. — Enth. die Beschreibung, d. Reisen v. Magellan, Fr. Drake, Th. Candisch u. Orlearius v. Noort. — Die Taf. meist mit Abb. v. Schiffen u. Küstenstreifen. — Es fehlen vier Kupfer.). — In diesem Band sind drei der wichtigsten u. interessantesten Teile aus Hulsius' großer Reisebeschreib. enthalten, neben de Bry eine der bedeutendsten frühen Reisesammlungen. — Expl. mit Gebrauchsspuren. Alle titel gestempelt. Die Taf. tls. gebräunt. Fingerfleckig u. vereinzelt stockfleckig. Die Karten oft eingerissen. Text u. Taf. tls. mit Fehlstellen im w. Rand. Rücken grau übermalt.

32 — (Zeiller, M.). Topogr. Heluetiae... Das ist Beschrbg. vnd Eigentl. Abbildung d. Vornembsten Stätte vnd Platz in der Hochlöb. Eydenoßschaft. Ffm., Merians Erben, 1654 (- nach 1700). Fol. Kupftit., 90 SS., 4 Bll. Reg. 1 Bl. Kupferverz., 2 Kupf.-Arbeiten, 77 meist dplgr. Kupftaf. mit 98 Ansichten. Hldr. d. Zt. Würtzrich 7; Sch. 65C. — Zufolge Wü. 4. Ausgabe, nach 1700 gedruckt. Einige Kupf. etwas (Baden, Freiburg, Luzern, S. Gallen). Es fehlt die Taf. mit den Ansichten von Winterthur, Andelfgn. u. Kyburg, dafür eine bei Sch. nicht erwähnte Taf. mit Ans. v. Nünkirch vorhanden. Die Taf. Lausanne etwas knitterig, die letzten Bll. (Reg.) mit Einrissen. Breitrandig und fast fleckenlos. Einbd. beschabt

33 — (—). Topographia Sveviae das ist Beschreib- vnd

DM 26,000



Aigentliche Abeontrafteitung der fürnembste(n) Stätt vnd Plätz in Ober vnd Nider Schwaben, Hgzt. Württemberg Margfisch. Baden Ffm., Merian, ca. 1655. Fol. Kupftit., 3 Bll., 232 SS., 6 Bll. Reg., 3 Kupferkarten, 53 (st. 59) Kupftaf. mit 87 (st. 100) Ansichten. Ldr. d. Zt. Wüthrich 11; Sch. 24B. — Zweite Ausgabe die Drucke unterschiedlich. Sehr breitrandiges u. sauberes Expl. — Es fehlen 6 Kupfer: Aurach/Böblingen/Balingen; Heinsheim/Hohenbach/Heldenheim; Herrenberg/Hornberg; Marbach/Mockmühl; Hohentwiel; Hohenasperg/Wildenstein.

DM 19,000

34 — (—) Topographia Alstaiæ (!), & c., Völk. Beschrbg. Und Eigentl. Abb. der vornehmsten Städte und Oerter im ... Elsaß. Ffm., Spöring, 1663. Fol. 8 Bll., 70 SS., 2 Kupferkarten, 33 (st. 35) meist dplgr. Kupftaf. Pp. Wüthrich 16; Sch. 29C. — Dritte Ausgabe, zufolge Wü. um 1690 erschienen. Es fehlen: Straßburg (Münster), Fleckenstein/Heiterheim, dagegen vorhanden u. im Reg. v. Sch. nicht verzeichnet: Höhingen/Sulzbach. Sehr sauber und breitrandig. Einige Kupfer flau.

DM 5200

35 — — Topographia Palatinatus Rheni ... Das ist, Beschrbg. vnd Eigentl. Abbildung der Vornehmsten Städte u. Plätze der Vntern Pfalz ... Sampt e. Zugabe. Ffm., Merian, 1645. Fol. Kupftit., SS. 3-67, 5 SS. Reg., 17 SS., 1 S. Reg., 1 Bll. Kupfverz., 3 Kupferkarten, 59 (st. 61) meist dplgr. Kupftaf. mit 97 Ans. Hggt. Wüthrich 22; Sch., 30A. — Erste Ausgabe. Einige kl. Papierdefekte u. Flecken. Es fehlen 2 Kupf. aus dem Anhang mit den Ans. v. Beckelum/Falkenstein u. Landstuhl/Oberstein.

DM 23,000

36 — (—) — Kupftit., SS. 3-106, 33 SS., 9 SS. Reg., 2 Kupferkarten, 46 (st. 60) teils dplgr. Kupftaf. mit 92 (st. 125) Ansichten. Pp. Wüthrich 25; Sch. 33C. — Dritte Ausg., zufolge Wü. um 1700 erschienen. Es fehlen: Karte d. Pfalz, Bacharach, Bretthelm/Caub., Bergzabern/Dürkheim/Leiningen, Heppenheim, Heidelberg (3 Ans.), Saarbrücken/Philippborn, Homburg/Neukirchen/Ottweiler, Altes Gebäude bei Windheim, Weinheim, Monzingen/Muschellandsberg/Schwabsburg, Metz, Nancy (2 Ans.), Beckelum/Falkenstein, Heidelberg, kl. Ans./Gr. Faß, Landstuhl/Oberstein. — Die Kupf. in unterschiedl. Druckqualität. Sehr breitrandig u. fast fleckenlos.

DM 8500

37 — (—) Topographia Archiepiscopatum Moguntinensis, Trevirensis, et Coloniensis, Das ist Beschrbg. d. Vornehmsten Stätt u. Plätze in denen Erzbischofthümern Mayntz Trier vnd Cöln. Ffm., Merian, (1675). Fol. Kupftit., SS. 3-95, 4 Bll. Reg., 4 (st. 3) Kupf.-Karten, 41 (st. 40) meist dplgr. Kupftaf. mit 66 Ansichten. Pp. Anf. d. 19. Jhdts. Wüthrich 28; Sch. 36B. — Zweite Ausgabe, mit sehr guten Abdrucken der Kupfer. Sauberes Expl. Zusätzl. vorhanden: Karte des Eisfeldes und Ansicht mit Belagerung u. Übergabe von Trier 1675 (gefalt. Kupfertaf. von Jan Luyken).

DM 23,000

38 — (—) Topographia Hassiae ... Beschrbg. der vornehmsten Stätte vnd Plätze in Hessen. Ffm., Merian, 1655. Fol. Kupftit., 151 SS. Reg., 46 (st. 60) teils dplgr. Kupftaf. mit 92 (st. 125) Ansichten. Ldr. d. Zt. Wüthrich 34; Sch. 48C. — Dritte Ausg., zufolge Wü. um 1680 erschienen. Es fehlen: Braunfels/Greifenstein, Butzbach/Braubach, Gießen/St. Goar, Gemünden/Greifenstein/Helmarshausen, Katz mit Goarshsn., Adolfsfeld/Ilmstadt, Marburg, Reichenberg, Runkel/Reifenberg, Langenschwalbach, Wildg. n./Ulrichstein/Wanfried, Weilburg, Waldeck/Wetter/Zierenhgn., Ziegenhain. Die Kupfer in unterschiedl. Druckqualität. Sehr breitrandig u. fast fleckenlos.

DM 8500

39 — (—) Topographia Westphaliae, Das ist, Beschrbg. der Vornehmsten, vnd bekantisten Städte, vnd Plätze, im Hochlöbl: Westphälischen Craibe. (Ffm., Merian, 1647). Fol. Kupftit., SS. 3-94, 2 Bll. Reg. 1 Bll. Kupfverz., 1 Kupferkarte, 49 (st. 50) meist dplgr. Kupfertaf. mit 85 Ansichten. Pp. d. 19. Jhdts. Wüthrich 35; Sch. 49A. — Erste Ausgabe. Es fehlt die Ans. des Rathauses in Aachen. Die übergroße Ans. v. Emmerich seilt. ganz knapp angeschnitten. Einige minimale Fleckchen, sonst sauber.

DM 26,000

40 — (—) Topographia Franconiae D. i. Beschrbg. Und Egentl. Contrafactur der Vornehmsten Stätt ... des Frankenlandes. Ffm., M. Merian, o. J. Kupftit., SS. 3-118, 5 Bll., 1 Kupferkarte, 36 (st. 42) Kupfertaf. mit 41 Ansichten. Ldr. d. Zt. Wüthrich 40; Sch. 43 G. — Dritte Ausg., zufolge Wü. 1678 erschienen. Es fehlen: Plassenburg, Lichtenau, Wülzburg, Breuberg, Rotenberg, Schillingsfürst/Sonnenberg. — Unter den Kupf. die mehrfach gefalt., großen Ansichten von Würzburg (2) u. Nürnberg. Sehr sauber und breitrandig. T.

DM 16,000

41 — (—) Topographia Provinciarum Austriacarum (M)... Das ist Beschreibung Vnd Abbildung der fürnembsten Stätt Vnd Plätze in den Österr. Landen, Mit Anhang u. Beschrbg. Windhaag. Ffm., Merian, (1736). Fol. Kupftit., 2 Bll., 92 SS., Bll.: tit., 14 SS., 1 Bll.; 9 Kupf.-Karten, 104 Kupftaf. mit 146 Ans. Ldr. d. Zt. Wüthrich 47 a-c; Sch. SE, 13 I u. II. — Siebente Ausgabe, zuf. Wüthrich 1736 erschienen, der Anhang auch so dat. Die meisten der Kupfer noch in erstaunlich guten Abdrucken. In vielen Fällen sind 2 gr. Kupfer auf 1 unzerschn. Falblatt. Sehr breitrandig und sauber, von minimalen Bräunungen abgesehen. Einige kl. Einrisse. Vom Anhang Windhaag sind in dieser Ausg. nur 2 Karten u. 8 Kupftaf. enthalten. Im Hauptteil fehlen 5 Kupftaf.: Stephanskirche in Wien: Hochosterwitz 2 Ans.; Kloster Wilten; Meran; Festung Kofel

DM 14,000

42 — (—) Topographia Bohemiae, Moraviae et Silesiae, d. i. Beschrbg. u. eigh. Abb. d. vornehmsten Städte u. Plätze in ... Bohem., ... Magren u. Schlesien. Ffm., Merian, (ca. 1680). Fol. Kupftit., SS. 3-192, 8 Bll., Reg., 1 Bll. Kupfverz., 3 Kupf.-karten, 31 meist dplgr. Kupftaf. mit 34 Ansichten Ldr. d. Zt. Wüthrich 50; Sch. 15C. — Dritte Ausgabe, zuf. Wil. um 1680 erschienen. — Von geringen Bräunungen abgesehen schönes, sehr breitrandiges Expl. Ob. Kapital schadhaf

DM 6000

43 — (—) Topographia Electorat. Brandenburgici et Ducatus Pomeraniae etc. das ist Beschreibung der Vornehmsten und bekantisten Städte vnd Plätze in ... Brandenburg u... Pommern, zu sampt... Preußen v. Pomerellen u. Liffland. Ffm., Merian, (1704). Fol. Kupftit., 2 Bll. Widmg., SS. 3-129, 7 SS. Reg., 53 SS., 3 SS. Reg.; 36 SS., 2 SS., Reg. 2 (st. 4) Kupf.-Karten, 55 (st. 70) Kupftaf. mit 77 Ansichten. Hldr. d. Zt. Wüthrich 56; Sch. 61B. — Zweite Ausgabe im Neudruck von (zuf. Wüthrich) 1704. Die Kupf. meist gefaltet u. meist in guten Abdrucken. — Es fehlen die Karten v. Brandenburg u. Ostpreußen, ferner folgende 15 Taf.: Zehden; Berlin Grundriß; Curtow/Caies; Corlin/Cüstrin Plan; Cüstrin v. d. and. Seite; Badingen/Damm; Neuendamm/Neuenwedel; Drossen; Falkenberg/Friedeberg; Königsberg i. N./Lichem; Köpenick/Liebowalde; Alten Ruppin/Neu Ruppin; Soltwedel/Straußberg; Königsberg.

DM 5500

44 — (—) Topographia u. Eigentl. Beschrbg. Der vorn. Stäte, Schlösser, auch anderer Plätze in denen Herzogthümern Braunschweig u. Lüneburg. Ffm., Merian (1658). Fol. Kupftit. 2 Dplbl. mit Stammbäumen, 220 SS., 4 Bll. Reg., 3 Kupf.-Karten, 144 (st. 132) meist dplgr. Kupftaf. mit 194 (st. 224) Ansichten. Ldr. d. Zt. Wüthrich 61; Sch. 55B. — Zweite Ausgabe. Die Kupfer teils schwach. Es fehlen 3 halbe Taf. mit den Ans. v. Reinstein, der Außenans. d. Bibl. in Wolfenbüttel, Asseburg, ferner fehlen 18 Taf. mit folg. Ans.: Eisenhütten zu Rübeland, Erichsburg/ Ehrenburg, Gifhorn 2 versch. Ans., Langesen/Die Gleichen, Göttingen, Hämelscheburg, Harburg, Heimbürg, Hersen/Herzberg, Botmar/Bleekede, Roßtrappe, Rottenkirch, Schartzfels, Schnackenberg/Staufenberg/Sampleben, Winsen/Walsrode, Wolfenb. Schloß Weinhausen/Wustowr/Weye. — Sehr breitrandig und sauber.

DM 17,000

45 — (—) Topographia superioris Saxoniae, Thuringiae, Misniae, Lusatie etc. Das ist Beschrbg. d... Stätt u. Plätze in... Sachsen, Thüringen ... Ffm., Merian, 1650. Mit Kupftit., 5 dplgr. gest. Ktn. u. 56 meist dplgr. tils. mehrf. gef. Kupftaf. mit 82 Ansichten, Ldr. mit reicher Verg. Wüthrich 52; Sch. 58 A. — Erste Ausgabe. — Die Kupfer tils. in kraftigen Abdrucken, einige etwas gebräunt u. fleckig. Leicht berieben, Ecken bestoßen.

DM 8000

46 — — Frankreich. Tle. 1-8 (v. 13) in 3 Bdn.. Ffm., C. Merian, 1655-57. Fol. Mit 8 Kupftit., 337 (st. 338) Ansichten auf 262 (st. 263) meist gef. Kupftaf. u. 12 gef. Kupfkn. Pgt. d. Zt. Wüthrich 69, 71 u. 73 (Sch. 71-78). — Erste Ausgabe. — Im 1. Tl. fehlt d. Taf. "Pariß, in Prospect, vff 2 Kupf." Die im Kupferverv. aufgef., jedoch im 1. Tl. nicht vorh. Taf. Clermont, Meaux/Soisson u. Noyon gelten nicht als fehlend, da sie wie üblich in anderen Tln. d. Werkes einbgsd. sind. Wie in allen Expln. d. I. Tls. sind auch bei unserem d. beiden nicht im Kupferverv. aufgef. Taf. Aqued. d'Arcueil u. Mont Valerien vorh. Die erste Kte. in Tl. 1 mit Bildverl. beschäd., sonst nur einige ausgeh. Randschäden. Vereinz. unbedeutend stockfl. Tle. 2-8 fast durchgehend v. tadelloser Erhaltung. meist ausgef. Abdrucke.

DM 4800

47 — Vischer, G. M. Topographia Archiducatus Austriae Inf. Moderna, seu Controlae und Beschrbg., aller Stätt Clöster u. Schlösser wie sie anietzo stehen in ... unter Österreich. 4 Tle. in 1 Bd. (Wien) 1672. Fol. 4 Kupfertit., 8 unnn. Bll., 4 gef. Kupferkn., 256 (st. 258) tils. gef. Kupiertaf. mit 504 (st. 508) Ansichten u. 8. Zusätzl. einbgsd. Ansichten. Pgt. d. Zt. (die 4 Bindebd. fehlen. Feil, Fischer 15, III: "Was die Aufführung dieser Kupferstiche anbelangt, so überietet sie bei weitem jene der oberösterreich. u. steiermark. Topographie, so wohl an Nettigkeit u. Klarbeit, als vor alle an wohlthuender Gleichförmigkeit des Striches". Enth. 4 große Ansichten von Wien u. 3 gr. Detailansichten aus d. Stadt. — In Tl. 1 fehlen die Ansichten 60-63. Taf. 7 in d. unteren Ecke hinterlegt. Taf. 76/77 mit hinterleg. Einriß. Zusätzl. eingeklebt sind: 1 gef. gest. Plan v. Wien, 1 lith. Ansicht v. Wien. 2 gest. Ans. v. Johanstein, 1 v. Wildeck, 1 v. Kloster Seissenstein, lith. Ansicht v. Raabs sowie eine schöne gef. kolor. Ans. v. Krems. — Vereinzelt stock- u. etwas fingerfleckig.

DM 10,500

TOTAL MAPS AND ATLASES DM 607,100 (46 lots)

## A.L. VAN GENDT & CO. B.V., AMSTERDAM, 18-20 DECEMBER 1979 (PREMIUM 20%)

48 OTTENS, R. & J., Nieuwe en zeer nette Atlas van Zuyd-Holland, 't Sticht van Utrecht, en een Gedeelte van Gelderland, afgedeld in Heemraadschappen, Baljuwschappen, Heerlykheden, Waarden, Districten en Uytgeveende Waterplassen. Amst., R. & J. Ottens, (ca. 1740). With engr. fold. general map & 44 engr. fold. maps, all in contemporary outline colouring. Contemp. h. road, narrow 8vo. - Koeman Ott 11A. A fine copy of a rare pocket-atlas. - One map a trifle creased, two with a small slit in the lower fold.

f4800

49 TIRION, I., Nieuwe en Beknopte Hand-Atlas bestaende in eene Verzameling van eenige der algemeenste en nodigste Landkaarten alle in de Nederduitse Taal, en na de allerlaaste ontdekkingen van De L'sle en anderen opgesteld. Amsterdam, Isaak Tirion, n.d. (ca. 1770). With 109 double-page (some folding) engraved maps, all in contemporary hand-colouring. Contemporary half calf (somewhat rubbed). Folio. = Koeman Tir. 4. - Includes 15 maps of America, i.a. New England, Surinam & a plan of Paramiribo, a plan of Quebec, etc.; 38 maps of the Netherlands. - Some of the maps are split in the fold. - The index calls for 112 maps, but these include the folding maps 55/56, 57/58 & 94/95 which are counted as if they consisted of two maps each.

f18,000

50 H(EYNS), Z(ACHARIAS), Den Nederlandscher Landt-Spiegel in Ryme gesteld door Z.H. Waer in dat letterlijk ende figurlijk de gheleghenthey, aert ende nature van de Nederlanden met de omliggende grensen als Westphalen, Cleve, Gulik, &c. claelrijck afgebeeld ende beschreven wordt. Amsterdam, Zacharias Heyns, 1599. With small engraved vignette on the title & 36 woodcut maps, full-page. Contemporary vellum (slightly worn and stained), remains of ties. 4to oblong. = Moes & Burger IV, p.215, no. 660. This little atlas of the Netherlands follows the example set by the first Antwerp 'pocket-atlas', in 1577 published by Plantin: Spiegel der Werelt. That atlas contained engraved maps by Galle, after Otelius; the text was by Peter Heyns. It was reprinted under the title Epitome Theatri Orteliano, and in resp. 1596 and 1598 his son, Zacharias, published his version of the Spiegel. Obviously new maps had to be made, as the old, engraved, ones remained in Gallie's possession. - The maps dealing with the Netherlands (with the addition of maps of Artois, Liège and Limbourg) were reprinted in the present atlas. There are two issues of the atlas, differing only in small details, of which the most important is, that the woodcut printer's mark is replaced by an engraved one. - See also: Koeman II, Z. Hey 2, and Bibl. Belgica H 53/60. - A nice and complete copy, some traces of use and a bit dog-eared in places.

f6500

51 OTTENS, R. & J., Atlas (Minor, sive geographica compendiosa in qua orbis terrarum). Amst., R. & J. Ottens, n.d. (between 1725-1750). With engr. title after L. Webbers & 57 engr. maps (53 double-page; 4 folding), all in good hand-colouring of the period; the cartouches not coloured. H. calf (dam. & loose), large folio. = Koeman Ott 1: 'Copies of the Ottens atlas in one volume have been assembled to order. They do not contain a printed index. The number of maps they contain differs from one copy to another. Their contents consist of maps by various authors'. The present copy contains i.a.: 4 maps of Great Britain, 5 maps of Scandinavia, 7 maps of Russia, 6 maps of Gerany, 7 maps of France, 2 maps of Europe, 6 maps of Belgium, 3 maps of Italy, 3 maps of Africa, 3 maps of Asia, 2 maps of Middle- & South-America; furthermore a table of distance for the Netherlands, coloured by hand and dated 1790. - Loose in binding; some stains; tear in some folds, but else in good condition.

f10,000

52 MERIAN, Topographia Galliae, Dat is een algemeene en aenakeurige lant en plaetsbeschryvinghe van het machtighe koninkrijck Vranckryck. Amst., Wid. of J. Broersz, & C. Merian, 1660-63. 4 vols. With 4 engr. fronts., 74 fine double-page engr. maps & plans, 154 double-page or folding engr. views of the most important towns & villages and 182 (of 184) engr. views & plans on 92 leaves (num. double-page). Contemp. vellum (a bit soiled or waterstained), folio. = Tiele 1101. Greatly enlarged Dutch adaptation of Zeiller's 'Topographia Galliae' (Frankfurt 1655) with the fine plates by Caspar Merian. Another edition was published in 1662 by J. van Meurs, Amsterdam (12mo.). - Lacks 2 maps of Paris; Vol. 2 waterstained at beginning & end; vol. 3 margin waterstained: some plates & leaves a bit torn or loose, but in all an acceptable copy with good impressions of the plates.

f5500

53 ATLAS — BLAEU, J., Toonneel der Steden van de Vereenighde Nederlanden, met hare Beschrijvingen. Amst., J. Blaeu, n.d. (1649). Title within armorial engr. borders and 124 (118 doublepage, 10 single-page) maps, townplans, views & battle-grounds (several double-page plates cont. two or more views & plans). Contemp. gilt & pannelled vellum (spine sl. dam. sl. rubbed & warped, lacks ties), large folio. = Koeman Bl. 68B. The second edition of Blaeu's townbook of the Netherlands, the first volume only, cont. the United Provinces. - Some short marginal tears, in one case (plan of Groningen) a more serious, but repairable, tear, some leaves and plates with a light waterstain, a few plates a bit creased. In all a good copy, with ample margins and good impressions of the plates.

f40,500

54 BOXHORN, M.Z., Toneel ofte Beschryvinge der Steden van Hollandt. Int Nederlands overgeset by den Autheur, verb. ende verm. door G. Baerdeloos. (Leyden, W. Christiaensz. for: Amst., J. Keyns, 1634. With engr. title, 5 engr. maps & 38 engr. townplans. Contemp. vellum, large 8vo oblong. - Tiele 180. Copy with printed slip with the address of Keyns pasted over the original one of Hondius. Tiele calls for 5 maps and 39 plans, but the collation of our copy seems all right, and in the other copies of the Dutch edition we found described also 38 plans were present. - Half-title badly creased, tear in same roughly rep. with sellotape; engr. title somewhat creased and tear in innermargin repaired with sellotape; some short tears and somewhat browned and foxed.

f4600

55 HISTORIE, HEDENAAGSCHE. — Vol. 14-18. Holland. Amst., I. Tirion, 1742-50. 5 vols. With 5 engr. fronts. & 57 engr. maps, plans, plates & views, for the greater part double-page or fold. Contemp. marbled claf, backs gilt & contemp. h. calf (vol. 17). - Slightly rubbed, some spines sl. dam.

f4500

56 SLICHTENHORST, A. VAN, XIV. Boeken van de Gelderse Geschiedenissen. Getrocken meerendeels uyt de Latijnse werken van I. I. Pontanus. Arnheim, Jac. van Biesen 1653. 2 parts, 1 vol. With engr. title, engr. fold. general map, 20 double-page engr. townplans & maps & 24 fine armorial woodcuts in the text. 19th cent. h. chagrin, spine gilt (rubbed), folio. - Important source for the history of Gelderland, with the -often lacking- general map. The fine plans (i.a. of Nijmegen, Arnheim, Harderwijk, Zaltbommel), also depict the profiles of the towns. - A few neat small repairs, some, mainly marginal, waterstains. Except for the binding a good copy.

f5500

TOTAL MAPS AND ATLASES F152,135 (39 lots)



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# Collations

compiled by R.V. Tooley

Collations, namely the listing of atlas contents map by map, are the basic tools of the map collector and the student of historical cartography. They assist in the identification of particular editions, in the dating of loose maps which have become detached from atlases and they help to confirm or otherwise the completeness of a particular work. It is only by studying atlas contents that collectors and scholars can determine which maps, covering particular areas of interest, have been published in atlas form.

A number of atlases are collated in each issue to form with the rest of The Map Collector, an unending part-work encyclopaedia on the history of cartography.

## TABULAS GEOGRAPHICAS, (1774)

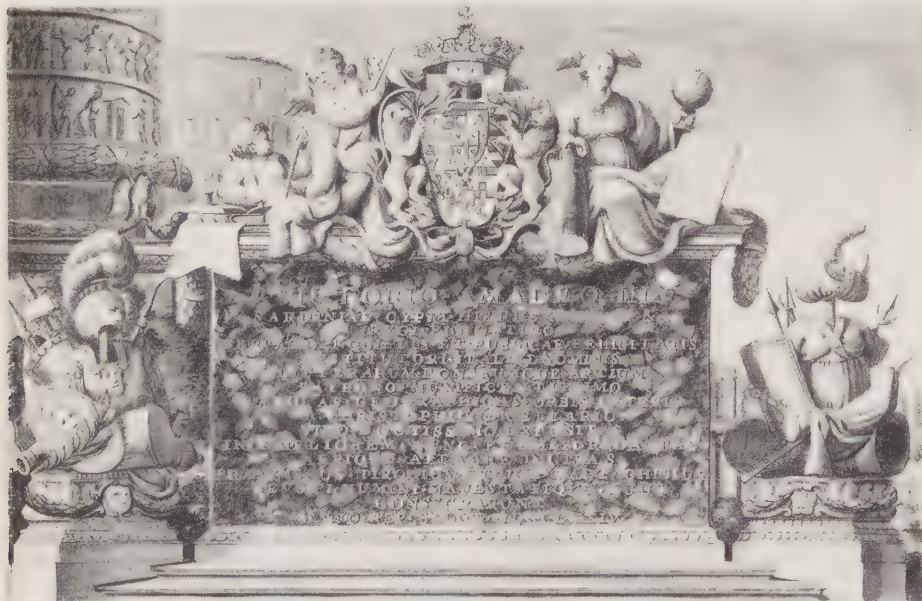
CHRISTOPH KELLER (1638-1707). TABULAS GEOGRAPHICAS ORBIS VETERIS (1774). The copy described is an unusually finely illuminated and gilded copy, printed partly in sepia and partly in black ink, as indicated. Oblong folio.

[Title] VICTORIO. AMADEO. III./ SARDINIAE. CYPRI. HIERUSALEM &c. &c./ REGI. PIO. OPTIMO/ SERVATORI. QUIETIS. ET. PUBLICAE. FELICITATIS/ RESTITUTORI. ITALICI. NOMINIS/ LITTERARUM. BONARUMQUE. ARTIUM/ PATRONO. MUNIFICENTISSIMO/ TABULAS.

GEOGRAPHICAS. ORBIS. VETERIS/ A. CHRISTOPHORO. CELLARIO/ VIRO. DOCTISSIMO. EXPOSITAS/ IN. AMPLIOREM. NUNC. FORMAM. REDACTAS/ AERIQUE. AFFABRE. INCISAS/ FRANCISCUS. TIROLIUS. ET. JOH. BAPT. GHISIUS/ DEVOTI. NUMINI. MAJESTATIQUE. EJUS CONSECRARUNT/ ANNO. REP. SALUT. MDCCLXXIV. // Joseph Barberi inv. del./ Camillus Tinti sculp. 295 x 436mm (sepia).

The maps are as follows:

- [ 1 ] SPHAERA ARMILLARIS 300 x 454mm (sepia)
- [ 2 ] T.I./ VETERIS ORBIS CLIMATA EX STRABONE 313 x 458mm (black)



The beautiful title page from Christoph Keller's Tabulas Geographicas Orbis Veteris published in 1774. (By courtesy of R.V. Tooley Ltd. Photo by John Webb.)



The map of North and South America from Christoph Keller's atlas with east oriented towards the top. (By courtesy of R.V. Tooley Ltd. Photo by John Webb.)

- [ 3 ] T.II./ SCHEMA OCTO VENORUM/ Secundum Graecos, et Romanos// SCHEMA DUODECIM ENTORUM// Ichnographia Turris Atticae octangulae pro/ Ventorum numero, et plagis// Fragmentum Columnae duodecim Anglorum/ de quo VII exstant latera, reliqua mura conclusa latent. 298 x 547mm (sepia)
- [ 4 ] T.III./ HISPANIA/ANTIQUA 309 x 460mm (black)
- [ 5 ] T.IV./ GALLIA/ NARBONENSIS/ LUGDUNENSIS/ ET/ AQUITANEA 310 x 467mm (black)
- [ 6 ] T.V./ GALLIA/ BELGICA 313 x 467mm (black)
- [ 7 ] T.VI./ INSULARUM/ BRITANNICARUM/ FACIES/ ANTIQUA 310 x 460mm [inset]: [ORCADES INSULAE] 108 x 78mm (black)
- [ 8 ] T.VII./ GERMANIA/ ANTIQUA 315 x 472mm (black)
- [ 9 ] T.VIII./ SARMATIA 315 x 463mm (black)
- [ 10 ] T.IX./ VINDELICIA/ RHAETICA/ ET NORICUM 320 x 466mm (black)
- [ 11 ] T.X./ PANNONIA/ MOESIA DACIA/ ILLYRICUM 318 x 472mm (black)
- [ 12 ] T.XI./ ITALIA/ ANTIQVA 310 x 458mm (black)
- [ 13 ] T.XII./ GALLIA/ CISALPINA 315 x 460mm (black)
- [ 14 ] T.XIII./ ITALIA/ MEDIA/ sive/ PROPRIA 322 x 470mm (black)
- [ 15 ] T.XIV./ LATI/ UTRIUSQUE/ DELINEATIO 315 x 465mm (black)
- [ 16 ] T.XV./ GRAECIA MAGNA/ SIVE PARS VLTIMA/ ITALIAE 322 x 474mm (black)
- [ 17 ] T.XVI./ REGIONES ITALIA/ EX/ AUGUSTI CAESARIS/ DIVISIONE 320 x 473mm (black)
- [ 18 ] T.XVII./ SICILIA/ ANTIQUA 317 x 472mm [inset]: [Carthago Syracusa] 70 x 101mm (black)
- [ 19 ] T.XVIII./ GRAECIAE/ ANTIQUAE/ ET INSULARUM/ CONSPECTUS 321 x 475mm (black)
- [ 20 ] T.XIX./ MACEDONIA/ THESSALIA/ EPIRUS 318 x 472mm (black)
- [ 21 ] T.XX./ HELLAS/ sive/ GRAECIA PROPRIA 317 x 472mm (black)
- [ 22 ] T.XXI./ THRACIA/ ANTIQUA 312 x 463mm (black)
- [ 23 ] T.XXII./ ASIA/ MINOR 317 x 467mm (black)
- [ 24 ] T.XXIII./ BOSPORUS MAEOTIS/ IBERIA/ ALBANIA/ ET SARMATIA/ ASIATICA 315 x 470mm (black)
- [ 25 ] T.XXIV./ SYRIA 314 x 462mm (black)
- [ 26 ] T.XXV./ PALESTINA/ SEU/ TERRA SANCTA 465 x 310mm (black)
- [ 27 ] T.XXVI./ ARABIA/ PETRAEA/ ET/ DESERTA 312 x 467mm (black)
- [ 28 ] T.XXVII./ MESOPOTAMIA/ ET/ BABYLONIA/ FLUMINIBUS SECUNDUM VE/ TEREM TABULAM DUCTIS 312 x 465mm (black)
- [ 29 ] T.XXVIII./ ORI-/ ENS 310 x 465mm (black)
- [ 30 ] T.XXIX./ SCYTHIA/ ET/ SERICA 310 x 455mm (black)
- [ 31 ] T.XXX./ AEGYPTUS/ ET/ CYRENA/ICA 314 x 463mm (black)
- [ 32 ] T.XXXI./ AEGYPTI DELTA/ ET/ NILI OSTIA 315 x 456mm (black)
- [ 33 ] T.XXXII./ AFRICA/ PROPRIA 315 x 460mm (black)
- [ 34 ] T.XXXIII./ MAURETANIA/ ET/ NUMIDIA 314 x 460mm (black)
- [ 35 ] T.XXXIV./ AFRICA/ INTERIOR 314 x 465mm (black)
- [ 36 ] T.XXXV./ AMERICA/ SEPTRIONALIS/ ET/ MERIDIONALIS 315 x 462mm [oriented east to the top] (black)

## SCOTLAND 1654 (LATIN) by Blaeu.

(See page 25 for article by Jeffrey Stone).

The full title of this work is: Guil. et Ioannis/Blaeu/ Theatrum/Orbis Terrarum./sive/Atlas Novus./Pars quinta./Amstelcedami/Apud Ioannem Blaeu/ MDCLIV.

The maps are as follows:

- 1 Insulae Albion et Hibernia cum minoribus adjacentibus. 394 x 445mm. Ptolemaic map of the British Isles.
- 2 Scotia antiqua . . . quam in lucem eruere conabatur R. Gordonius a Straloch.CICICCLII. Miliaria Scotica, 40 [= 67mm] 521 x 534mm.
- 3 Scotia Regnum cum insulis adjacentibus. Robertus Gordonius a Straloch descripsit. Miliaria Scotica, 40 [= 67mm]. 521 x 534mm. Dedication by R. Gordon to James Duke of Hamilton (d. 1649).
- 4 Teviota vulgo Tivedail. Auct. Tim. Pont. Io. Blaeu. Excudit. Scala miliarium, 4 [= 79mm]. 425 x 534mm.
- 5 Tvedia cum vicecomitatu Etterico Forestae etiam Selkirkæ dictus. Twee-dail with the Sherifdome of



Etterik-Forrest called also Selkirk. Auct. Timotheo Pont. Scala miliarium, 5 [= 89mm]. 419 x 508mm.

6 Laudelia sive Lauderdalia. Scotis vulgo Lauderdail. Auct. Tim. Pont. Scala miliaria, 3 [= 92mm]. 394 x 508mm. Dedication by J. Blaeu to John, Earl of Lauderdale.

7 Mercia vulgo vicecomitatus Bervicensis. Auct. Timothei Pont. The Merce or Shirredome of Berwick. Scala miliarium, 4 [= 79mm]. 381 x 489mm.

8 Lothian and Linlithquo. Joh. et Cornelius Blaeu exc. Scala miliarium Scotice, 5 [= 79mm]. 381 x 552mm. Copy of the Hondius plate signed by Pont, as published in the Hondius-Jansson atlas since 1630. Dedication by J. Blaeu to William, Earl of Lothian.

9 Lidalia vel Lidisdalia regio. Lidisdail. Auct. Timotheo Pont. Scala miliarium, 4 [= 92mm]. 413 x 514mm.

10 Evia et Escia, Scotis Eusdail et Eskdail. Auct. Tim. Pont. I. Blaeu Excud. Scala miliaria, 3 [= 70mm]. 419 x 521mm. Dedication by J. Blaeu to Francis, Earl of Buccleuch (d. 1651).

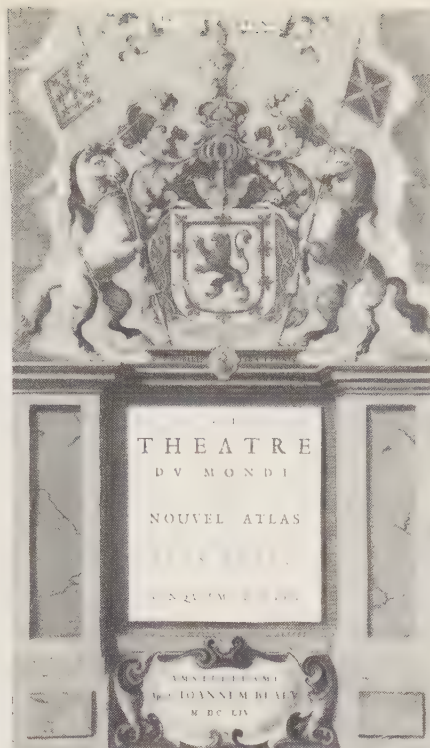
11 Annandiae praefectura, vulgo The Stewartrie of Anandail. Auct. Timotheo Pont. Excud. Io. Blaeu. Scala miliarium, 4 [= 102mm]. 419 x 508mm

12 Nithia Vicecomitatus. The Shirfdome of Nidis-dail. Auctore Timotheo Pont. Scala miliaria, 7 [= 108mm]. 387 x 533mm. Unsigned, to Archibald, Marquis of Dunglass.

13 Gallovidia, vernacule Galloway. Auct. Timoth. Pont. Scala miliaria, 10 [= 95mm]. 413 x 527mm. Dedication by J. Blaeu to Alexander, Earl of Galloway.

14 Gallovidiae Pars Occidentalis, in qua Vicecomitatus Victoniensis cum Regalitate Glenlucensi. The Sherifdome of Wigtoun w<sup>th</sup> the Regalitie of Glen-Luze both in Galloway. Auct. Timoth. Pont. Scala miliarium, 5 [= 76mm]. 416 x 521mm.

15 Gallovidiae Pars media, quae Deam et Cream



The title page from Blaeu's Nouvel Atlas of 1654. (By courtesy of the Bodleian Library.)



fluvios interjacet. The Middle-part of Galloway, which lyeth betweene the rivers Dee and Cree. Auct. Tim. Pont. Scala miliarium, 4 [= 76mm]. 425 x 540mm.

16 Praefectura Kircubriensis, quae Gallovidiae maxime orientalis pars est. The Steuatrie of Kircubright, the most easterlie part of Galloway. Auct. Tim. Pont. Scala miliarium, 4 [= 76mm]. 425 x 546mm. Blank shield for dedication.

17 Caricta Meridionalis. The South part of Carrick. Auct. Tim. Pont. Scala miliarium, 4 [= 83mm]. 387 x 521mm.

18 Caricta Borealis, vulgo The north part of Carrick. Opus Timothei Pont. Scala miliarium, 4 [= 76mm]. 419 x 521mm.

19 Coila Provincia. The Province of Kyle. Auct. Timoth. Pont. Scala miliarium, 4 [= 83mm]. 451 x 559mm. Dedication by R. Gordon to James Crichton, Viscount Frendraught (d. 1650).

20 Cuninghania. Ex schedis Timotheo Pont. Ioannes



Blaeu's map of Lidalia signed by Timothy Pont from the atlas of 1654. (By courtesy of the Bodleian Library.)





A plan of Aberystwyth published by William Morris in his atlas, 1801. (By courtesy of Adrian Robinson.)

- Blaeu excudebat. Scala miliaria, 5 [= 83mm]. 425 x 559mm. Dedication by J. Blaeu to Alexander, Earl of Eglinton.
- 21 Knapdalia Provincia, que sub Argathelia censetur. The Province of Knapdail which is accounted a member of Argyll. Auct. Timoth. Pont. Scale miliaria, 5 [= 89mm]. 419 x 533mm.
- 22 Cantyra Chersonesus. Cantr a Demie-yland. Auctor. Timoth. Pont. Scala miliarium, 8 [= 83mm]. 413 x 495mm.
- 23 Arania Insula in aestuario Glottae. The Yle of Arren in the Fyrth of Clyd. Timotheo Pont Auctore. Scala miliarium, 8 [= 76mm]. 381 x 521mm.
- 24 Buthe Insula vulgo The Yle of Boot. Auct. Tim. Pont. Scala miliarium, 2 [= 102mm]. 416 x 502mm.
- 25 Glottiana Praefectura Inferior, cum Baronia Glascuensi. The Nether Warde of Clyds-dail and Baronie of Glasco. Auct. Timoth. Pont. Scala miliaria, 6 [= 95mm]. 391 x 533mm.
- 26 Glottiana Praefectura Superior. Auct. Timoth. Pont. The Upper Ward of Clyds-dayl. Scala miliaria, 5 [= 73mm]. 394 x 540mm.
- 27 Praefectura Renfroana, vulgo dicta Baronia. The Baronie of Renfrow. Timotheus Pont Auctor. Scala miliarium, 5 [= 89mm]. 394 x 533mm. Blank shield for dedication.
- 28 Levinia vicecomitatus. The Province of Lennox, called the Shyre of Dun-Britton. Auct. Timoth. Pont. Scala miliaria, 4 [= 79mm]. 394 x 528mm.
- 29 Sterlinensis Praefectura. Sterlin-shyre. Auct. Timoth. Pont. Scala miliaria, 4 [= 92mm]. 413 x 521mm. Dedication by J. Blaeu to James, Earl of Callendar.
- 30 Fife vicecomitatus, The Sherifdome of Fyfe. Scala miliarium Scotiorum, 8 [= 108mm]. 419 x 521mm. Dedication by James Gordon to John, Earl of Lindsay.
- 31 Fife Pars Occidentalis, The West Part of Fife. 416 x 533mm. Without scale. By James Gordon?
- 32 Fife Pars Orientalis, The East Part of Fife. 416 x 533mm. Without scale. By James Gordon?
- 33 Duo Vicecomitatus Aberdonia & Banfia, Una cum Regionibus & terrarum tractibus sub iis comprehensis. Auctore Roberto Gordonio à Straloch. A Description of the two Shyres Aberdene and Banf, with such Countreys and Provinces as ar comprehended under them. Scala miliarium, 10 [= 86mm]. 432 x 559mm.
- 34 Scotiae provinciae mediterraneae inter Taum flumen

- et Vararis aestuarium: Sunt autem Braid-Allaban, Atholia, Marria Superior, Badenoch, Strath-Spea, Lochabria, cum Chersoneso qui ei ad occasum praetenditur; cum singulis earundem partibus. Opera Ro. Gordonii a Straloch, a Description of the inland provinces of Scotland lying between Tav river and Murra fyrth, conteyning Braid-Allaban, Athol, Brae of Mar, Badenoch, Strath-Spey, Lochabryr, w<sup>th</sup> all ye lands which ley west from Lochabryr w<sup>th</sup> all their parts conteyned under them. Millaria Scotica, 25 [= 133mm]. 419 x 527mm. Scala miliaria, 5 [= 73mm]. 394 x 540mm.
- 35 Lorna cum insulis vicinis et provinciis eidem conterminis. Lorn w<sup>th</sup> the Yles and provinces bordering there-upon. Auct. Timoth. Pont. Millaria Scotica comunia, 6 [= 83mm]. 391 x 527mm. Dedication by J. Blaeu to Sir James Balfour of Kinnaird.
- 36 Extima Scotiae Septentrionalis ora, ubi Provinciae sunt Rossia, Sutherlandia, Cathenesia, Strath-Naverniae cum vicinis regiunculis quae eis subsunt, etiamque Moravia. R. Gordonius à Strath-loch collegit et descripsit. Millaria Scotica communia, 15 [= 76mm]. 413 x 521mm.
- 37 Moravia Scotiae provincia, ex Timothei Pont scedis descripta et aucta per Robert: Gordonius à Strathloch. Millaria, 7 [= 89mm]. 416 x 546mm.
- 38 Southerlandia. Millaria Scotica, 8 [= 83mm]. 381 x 533mm. The title is uncompleted.
- 39 Strath-Navernia. Strath-Navern. Auct. Timotheo. Pont. Scala miliarium, 6 [= 67mm]. 413 x 508mm.
- 40 Cathenesia. Caithness. Auct. Timotheo Pont. Scala miliarium, 7 [= 84mm]. 381 x 521mm.
- 41 Aebudae Insulae sive Hebrides; quae Scotiae ad occasum praetenduntur, lustratae et descriptae a Timotheo Pont. The Western Iles of Scotland. Millaria Scotica communia, 5 [= 98mm]. 381 x 533mm.
- 42 Jura Insula. The Ile of Jura one of the western Iles of Scotland. Auct. Timoth. Pont. Millaria Scotica communia, 8 [= 111mm]. 410 x 527mm.
- 43 Ila Insula ex Aebudarum majoribus una. The Yle of Ila being one of the biggest of the Western Yles. Auct. Tim. Pont. Scala miliarium, 7 [= 83mm]. 400 x 521mm.
- 44 Mula Insula, quae ex Aebudarum numero una est, et Lochabriae ad occasum praetenditur. The Yle of Mul which is one of the Western Yles, and Lyeth over against Lochabryr. Auct. Timoth. Pont. Scala miliarium, 4 [= 57mm]. 425 x 546mm.

- 45 Insulae quaedam minores ex Aebudis quae Mularum et Skiam insulas interjacent. Some of the Smaller Western Yles, lying between the yles of Mule and Skye. Timotheo Pont auctore. Scala miliaria, 7 [= 83mm]. 394 x 527mm.
- 46 Skia vel Skiana. The Yle of Skie. Auct. Timotheo Pont. Millaria Scotica communia, 6 [= 76mm]. 413 x 527mm.
- 47 Vistus Insula, vulgo Viist, cum aliis minoribus ex Aebudarum numero ei ad meridiem adjacentibus. Auct. Timotheo Pont. 457 x 584mm. Without scale.
- 48 Leogus et Haraia insulae ex Aebudarum numero, quae quamquam isthmo cohæreant, pro diversis habentur. Lewis and Harry of the nombre of the Western Yles, which two although they ioyne be a necke of land ar accounted dyvers Ylands. Scala miliarium, 11 [= 92mm]. 394 x 520mm.
- 49 Orcadum et Schetlandiae Insularum accuratissima descriptio. Millaria Scotica, 10 [= 54mm]. 400 x 533mm. Dedication by W.J. Blaeu to Sir John Scot. The original of this map (presumably by Pont) was in Blaeu's possession by August 1626, when he requested from Scot coats-of-arms to illustrate it; the plate was engraved by September 1628, when he sent proofs to Scot for correction, and published two years later (September 1630), when Scot received impressions in the completed state.
- 50 Hiberniae Regnum vulgo Ireland. Apud Guiljelmum Blaeu. Millaria Hibernica, 25 [= 51mm]. 387 x 502mm. Originally published in Blaeu's *Atlas Novus*, German edition, 1634. After Jansson's copy of Speed.
- 51 Momonia, Hibernice Moun et Woun; Anglice Mounster. Millaria Hibernica communia, 15 [= 73mm]. 419 x 533mm. After Jansson's copy of Speed.
- 52 Lagenia; Anglis Leinster. Millaria Hibernica, 18 [= 76mm]. 394 x 489mm. After Jansson's copy of Speed.
- 53 Baronia Udrone in Comitatu Catherloughae. Millaria Anglica, 4 [= 76mm]. 381 x 254mm. A single-page plate. After Mercator's map of 1595, as republished in the Hondius-Jansson atlas.
- 54 Connachtia vulgo Connaughty. Millaria Hibernica, 20 [= 83mm]. 419 x 495mm. After Jansson's copy of Speed.
- 55 Vltonia; Hibernice Cui-Guilly; Anglis Vlster. [double scale:] Millaria Hibernica, 15 [= 76mm], 18 [= 76mm], 413 x 483mm. After Jansson's copy of Speed.



# PLANS OF THE PRINCIPAL HARBOURS, BAYS & ROADS IN ST. GEORGE'S AND THE BRISTOL CHANNEL by WILLIAM MORRIS, 1801.

Published originally by Lewis Morris in 1748, revised by his son William, having been the standard charts of the Welsh coast throughout the 18th century. The harbour plans were re-engraved, though not significantly altered. William added several new charts covering parts not previously surveyed by his father. A chart of Liverpool Bay, also a chart of Amlwch Harbour, Anglesey, being added. Despite new additions, the revised atlas was not the success of its predecessor, for the era of official hydrography was about to begin and seal the fate of 'amateur' hydrographers.

The full title of this work is: Plans of the Principal Harbours, Bays & Roads, in St. George's and the Bristol Channels From Surveys Made Under the Direction of the Lords of the Admiralty: By the late intelligent and ingenious Hydrographer, Lewis Morris, Esq. Of the Navigation on the Coast of Wales: Together with some Useful Tables for Mariners. A New Edition With Additional Observations, From Surveys Lately Made By William Morris. [rule] 1801. 4to. Title as above (v. blank) = Dedication. 1 lf. (v. blank) = To The Reader = 1 leaf = List of subscribers. 3 leaves (vii-xii) = Text. pp 1-21 and 32 charts.

The plans are as follows:

- 1 Plan of the Bays, Bars and Harbours of Liverpool and Chester published by Wm. Morris, Nov. 25th, 1800 (large folding plate) 440 x 635mm
- 2 A Plan Of the Bay And Harbour Of Conway Bay By the late Lewis Morris Esq.<sup>f</sup> 170 x 238mm
- 3 The Entrance of Beaymaris River The Sound and Cross Road By the late Lewis Morris Esq.<sup>f</sup> 170 x 235mm
- 4 Traeth Coch or Red Wharf, Bay, Bar and

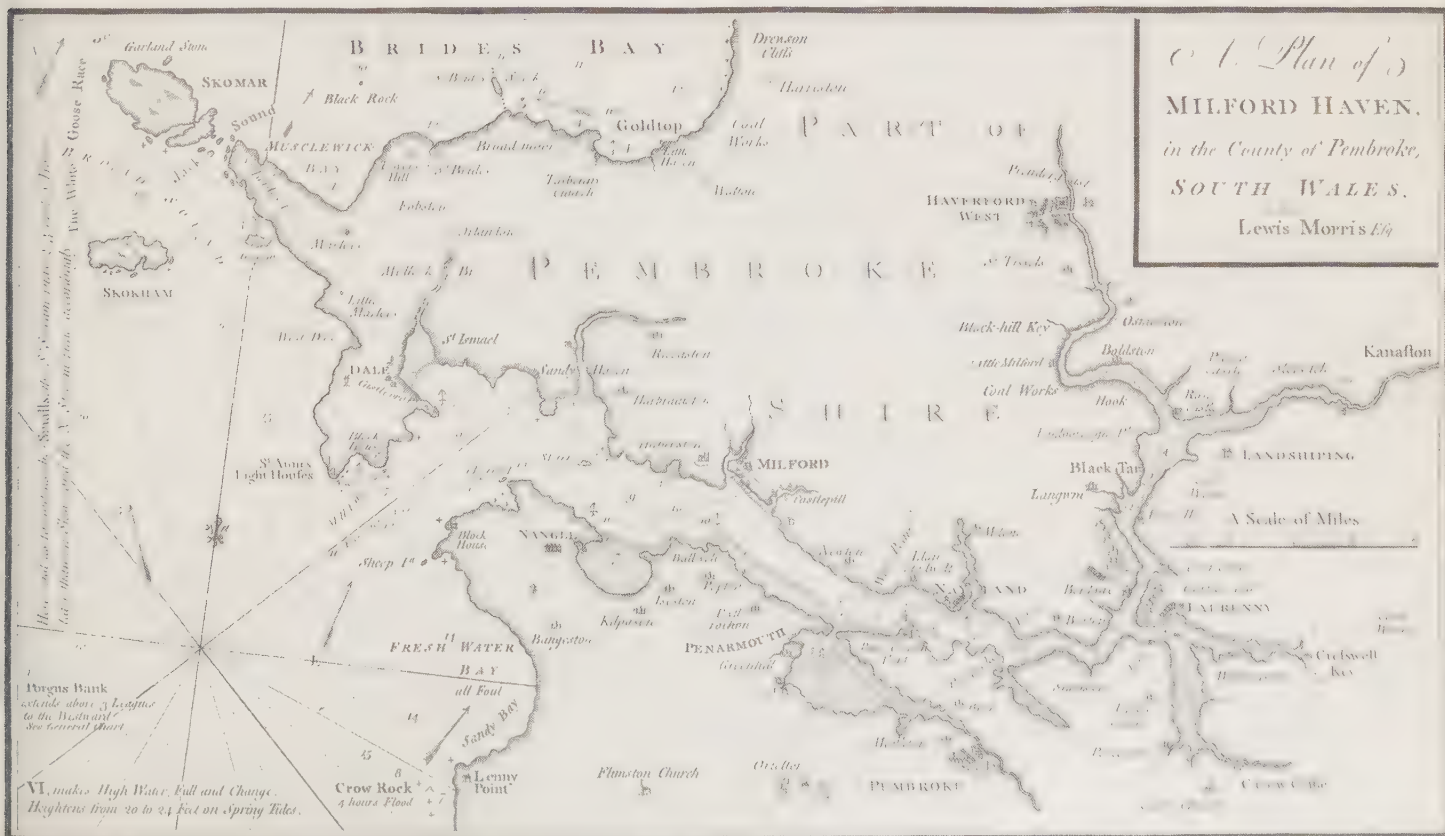
- Harbour By the late Mewis Morris Esq.<sup>f</sup> 170 x 237mm
- 5 Dulas Bay & Harbour By the late Lewis Morris Esq.<sup>f</sup> 170 x 236mm
- 6 Amlwch Port in the North of Angelsey By William Morris, 170 x 238mm
- 7 Camlyn Bay & Harbour, and the Coal Rock, By the late Lewis Morris Esq.<sup>f</sup> 170 x 234mm
- 8 Holy Head Bay Road And Harbour, By the late Lewis Morris, Esq.<sup>f</sup> 170 x 237mm
- 9 Maldreath and Aberffraw Creeks and Llanddwyn Road in Caernarvon Bay By the late Lewis Morris Esq.<sup>f</sup> 170 x 263mm
- 10 Caernarvon Bay, Bar and Harbour; and Llanddwynwen Road By the late Lewis Morris Esq.<sup>f</sup> 170 x 237mm
- 11 Porthdinlleyn & Nevyn Bay and Harbour By the late Lewis Morris Esq.<sup>f</sup> 170 x 236mm
- 12 Bardsey Isle in Welch Ynys Enllif By William Morris. 170 x 254mm
- 13 The North Entrance of Bardsey Sound and the Roads in Caernarvonshire By the late Lewis Morris Esq.<sup>f</sup> 170 x 238mm
- 14 Aberdaron Road the South East side of Bardsey Sound In Caernarvonshire By the late Lewis Morris Esq.<sup>f</sup> 170 x 239mm
- 15 St. Tudwals Road and Keiriad Road By the late Lewis Morris Esq.<sup>f</sup> 170 x 237mm
- 16 Pwlheli Bay Bar & Harbour By the late Lewis Morris Esq.<sup>f</sup> 170 x 235mm
- 17 Barmouth Bay, Bars & Harbour By the late Lewis Morris Esq.<sup>f</sup> 170 x 235mm
- 18 Aberdovey Bay, Bar & Harbour By the late Lewis Morris Esq.<sup>f</sup> 170 x 238mm
- 19 Aberystwith Bay, Bar & Harbour in Cardiganshire By the late Lewis Morris Esq.<sup>f</sup> (folding plate) 198 x 268mm
- 20 Aberaeron and New Key, Bay, Bar; and Harbours; By William Morris (folding plate) 173 x 297mm
- 21 Cardigan Bay, Bar and Harbour, By the late Lewis Morris Esq.<sup>f</sup> 170 x 274mm
- 22 Newport Bay & Harbour, in Pembroke Shire By the late Lewis Morris Esq.<sup>f</sup> 170 x 240mm
- 23 Fiscard Bay & Harbour in Pembroke Shire, by the late Lewis Morris Esq.<sup>f</sup> 170 x 238mm
- 24 The Roads in Ramsey Sound, on St. David's



- Head, in Pembroke Shire by the late Lewis Morris Esq.<sup>f</sup> 170 x 240mm
- 25 Solvach Bay & Harbour in Brides Bay, Pembroke Shire By the late Lewis Morris Esq.<sup>f</sup> 170 x 239mm
- 26 Goldtop Road in St. Bride's Bay near Milford Haven In Pembroke Shire By the late Lewis Morris Esq.<sup>f</sup> 170 x 240mm
- 27 A Plan of Milford Haven, in the County of Pembroke, South Wales by the late Lewis Morris Esq. (folding plate) 173 x 302mm
- 28 Tenby Harbour & Road, and Caldey Roads, In Bristol Channel by the late Lewis Morris Esq.<sup>f</sup> 170 x 235mm
- 29 Carmarthen, Lougharn, and Cydwely, Bar, Bay and Harbours; By William Morris (folding plate) 170 x 298mm
- 30 Burry Bay, Bar and Harbour; by William Morris 171 x 241mm
- 31 Swansea, Neath, Aberafon And the Mumble Flats; Bay, Bars and Harbours, by William Morris 171 x 266mm
- 32 A Plan of the Bay & Harbour of Dublin, by William Morris (folding plate) 181 x 318mm

All charts marked by the late Lewis Morris Esq. except charts 1, 6, 12, 20, 29, 30, 31 and 32 which are by William Morris. All charts bear imprint of William Morris below with date 1800 and all are engraved by Simpkins, Clements Inn, London.

One of several folding plans of the Welsh Coast from the atlas by William Morris. (By courtesy of Adrian Robinson.)





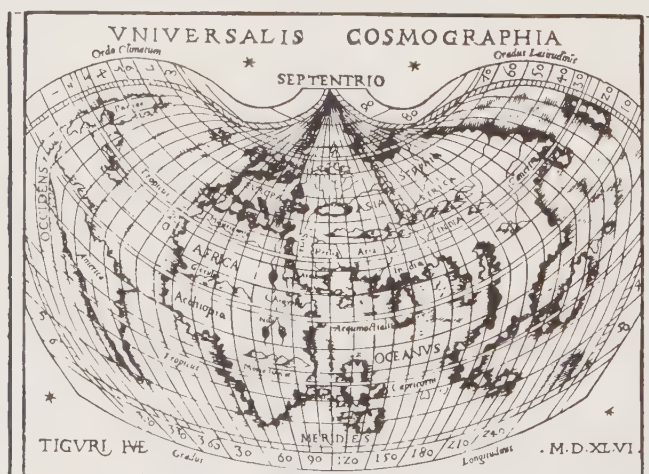
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**HOLY LAND. JOHN Speed.** [1611-1676], the Bassett and Chiswell edition. London. Canaan. Begun by Mr. John More continued and finished by John Speed. Anno Domini 1651. Speed's famous general map of the Holy Land, copied from the Stolz/Onelius map, the present version reproduces the map by John More (1611) as completed by Speed and published in his Genealogies, later in the Prospect, of 1676. Top left is a plan of Jerusalem embellished with illustrations of Holy Vessels from the Temple. A key to the numbered features of the map is given at the right. English text on the back. Good impression. 522 x 390mm. £325

**ASIA. J B HOMANN.** Nuremberg c. 1720. Asia Recentissima Delineatio, quo statim et Imperia Totius Orientis Unacum Orientalibus Indis exhibentur Auctore John: Bapt: Homanno S.C.M. Geographo Noriberg. Homann's large and impressive general map of Asia extends from Denmark to 'Compagnies Land' north of

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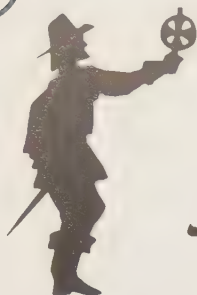
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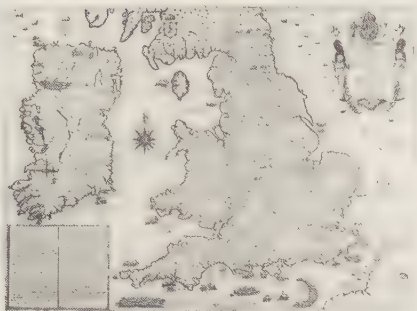
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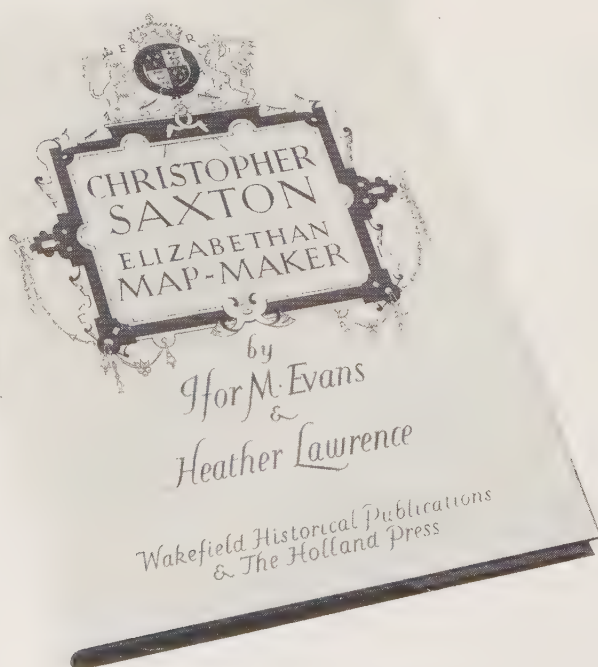
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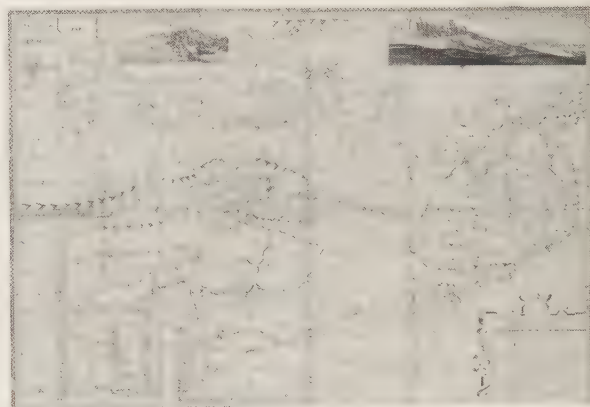
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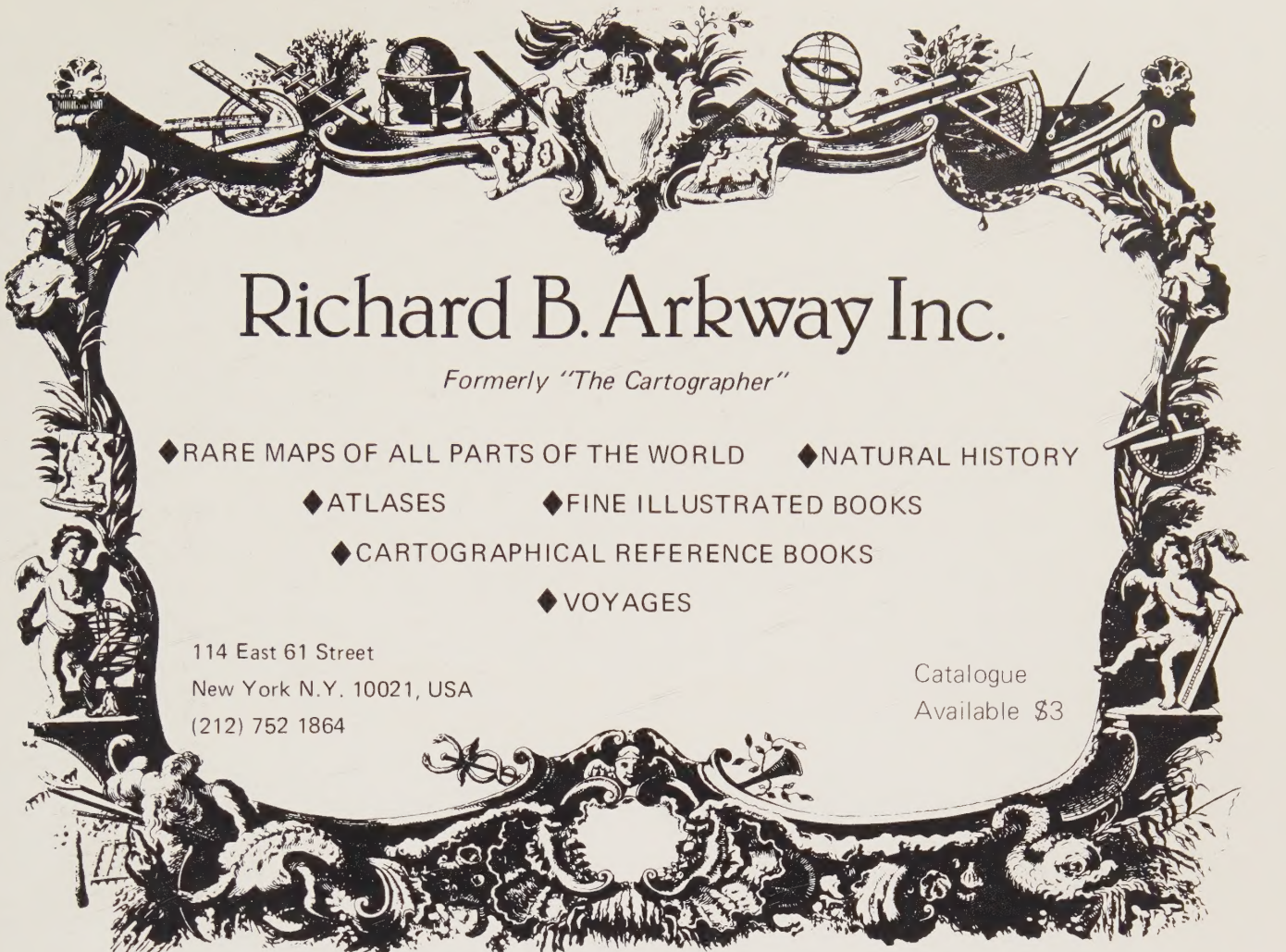
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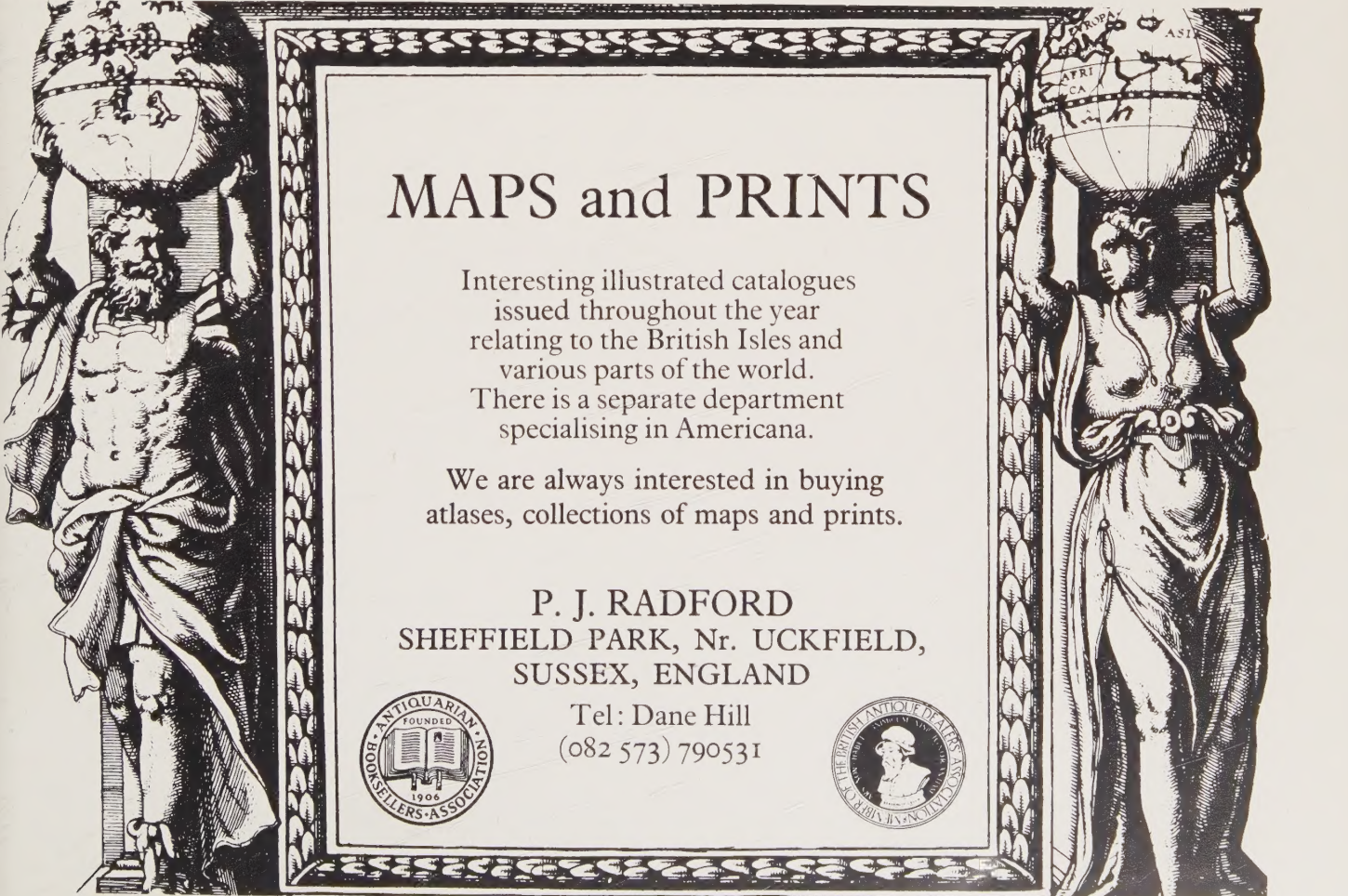
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