

## Supplementary materials and methods

### (a) Woodblock print analyses

The books and prints examined and photographed, including those obtained as images from libraries, are listed below (“*Books and prints examined*”). Because of the limited sample size of these rare books, one facsimile edition (Bordone 1988) of Bordone's *Isolario* was used but others (Bordone 1966; Bordone 1983; Bordone 2000) were not used because they contained altered prints (usually, redrawn map borders). Lines that were poorly inked (stippled and indistinct) or over-inked (swollen and blotched) were not scored. No evidence was found that repairs were made in the woodblocks used to produce the prints.

Although other types of woodblock deterioration (besides gaps in relief) may have taken place, there was no obvious evidence of this in the prints. For example, if the woodblock relief became flattened or worn down over time, lines printed in later editions should be wider because the wood relief is wider at its base. Although woodblock line width measurements were not taken, printed lines in later editions did not appear wider, in general. Thus, the only deterioration of woodblocks considered here is from the aging, cracking, and injury of the wood, resulting in line breaks. Dates of publication, for dated books, were assigned to the middle of the year in calculations (e.g., “1528.5”) if the day and month were unknown.

### (b) Copperplate print analyses

The books and prints examined and photographed, including those obtained as images from libraries, are listed below (“*Books and prints examined*”). The imaging equipment and conditions used by libraries varies, and this factor likely contributed to variability in resulting data for Magini prints. Slight variation in focus may explain some variation seen in resulting grey values, with sharper images resulting in higher values.

For Porcacchi's *L'isole più famose del mondo*, the prints of Cuba and Hispaniola were selected because some were available for analysis in the laboratory and because they were included in all editions (some other maps were added after the first edition). Of the two, only Hispaniola showed some retouching in the last (1620) edition. The Porcacchi map of Jamaica, also available for laboratory analysis, had been substantially retouched by the printer in 1604 and therefore was only used for line analyses. Regions of prints sampled for grey value are shown in Figure S1. The 1686 and 1713 (Lasor a Varea) editions of Porcacchi's book were not considered here because they contain prints resulting from altered copperplates. Several library records referring to a 1603 edition of Porcacchi's atlas were found to be in error, and in one case the book was not present in the library (Library of Congress G500 .P825) and therefore its date could not be verified. The 1604 and 1605 editions are identical, including type-setting, except for date on the title page. They are treated here as two editions, following standard convention (Sabin 1868), although they could be considered one edition.

Pirated editions of Magini's *Geographiae* printed in northern Europe during the same time period, using different plates, were not considered here. Also, there is no

evidence that the Italian Magini plates were used in other books by the author or printer between 1598 and 1621. Variation in the date of the second part of the second Italian edition (1597 or 1598), on various copies, probably stems from its release in December of 1597. In similar situations involving other books (Bowers 1949), it has been argued that only one edition should be recognized (as was done here). In these cases, the assumption has been that the printer reached the last section of the book and realized that it was being completed prior to the change of year, so altered the date of that section in mid-run. A few copies of Magini's first edition (1596) are dated "1594" and "1616," but these are clearly printer's errors and do not represent different editions. Dates used here for the three editions of *Geographiae* were based on their dedication dates: 1596.29 (April, 1596), 1597.92 (December 2<sup>nd</sup>, 1597), and 1621.13 (February 16<sup>th</sup>, 1621).

For estimates of plate size change from prints, single copies of original prints (one from an early edition and one from a late edition) were available for measurement (0.01 mm precision) in the laboratory with calipers: Porcacchi Hispaniola and Jamaica maps from 1576 and 1604, and the Stradanus *Impressio Librorum* print from 1590 and 1538. The length and width changes (early edition to later edition) averaged only -0.8% (-0.64, -1.38, and -0.42%, respectively). The fourth comparison involved size-calibrated high resolution images (0.05 mm precision) of the Magini World map of 1598 (two copies) and of 1621 (two copies). In this case, differences among copies from each edition also averaged slightly less than one percent (0.91%) and the change between editions was barely measurable (-0.076%), arguing against compression of the copperplates by the printing press. The slight variation between prints from the same edition appeared to be attributable to minor shrinkage and expansion of paper, probably while they were drying after being printed.

#### (c) Copperplate line analyses

An effort was made to sample different features of the print but otherwise the lines were randomly selected for each pair of maps representing different editions. An image measurement tool was used (Rasband 2005) to measure line width by moving the cursor across the width of an enlarged line on the monitor. Matched prints from the two editions were measured at the same time to facilitate measurement of the same location along the line. Some long lines were measured at multiple locations but each measurement was treated independently. Engraved lines were detected by their tapered shaped and were typically straight or slightly curved, ending in a point. Etched lines were distinguished by their blunt ends and slightly scalloped edge visible at high resolution and were straight, curved, or sharply curved. Some lines appeared to be initially etched, with points added by engraving, and these were not measured.

#### (d) Watermark analyses

Watermarks were photographed using ambient back-illumination. The images were later enhanced to show greater contrast, enlarged, and transferred (traced) to scalable, digital line drawings (eps format) using a graphics tablet (table S4 and figures S2–S7). The enhancement and enlargement resulted in greater precision in the tracing

compared with tracings typically made by hand in libraries, and allowed for illustration of chain lines, laid lines, and sewing dots.

Of the 51 different watermarks found, 15 were illustrations of objects and 36 were initials of the papermaker (countermarks, or “cornermarks”). The most common were of an anchor in a circle, usually below a star or clover (nine variants) and of the initials “BA” (eleven variants). The latter is apparently the countermark of the anchor watermark, although this was not confirmed. It is possible that some of these common variants represented “twins” (Needham 1994; Stevenson 1951-1952), although aging of the mold itself (e.g., repairs) has also been suggested as explanation for watermark variants (Hunter 1947). Nonetheless, close inspection showed that the variants were sufficiently different to rule out minor repairs as an explanation for their differences.

As was typical of early books (Hunter 1947; McKerrow 1927), each frequently contained multiple watermarks, and one had nine different watermarks, indicating that the printer used different stocks of paper, visibly of different quality. As expected, standard watermarks (illustrations of objects) were found mostly in the folio (*Isolario*) because of the way paper was folded, resulting in a centrally located folio watermark (McKerrow 1927; Needham 1994). When watermarks were found in a few quartos and octavos they were close to the binding and only partially visible.

Comparisons were made with the large watermark atlas of Briquet (Briquet 1907) containing 16,112 watermark tracings, an anchor watermark atlas (Mošin 1973), and a smaller collection (Woodward 1996); the latter is relevant for books printed in Northern Italy during the mid-Sixteenth Century, as in this case. At least 2,847 different anchor watermarks are known, dating from the 15th to the 19<sup>th</sup> Century (Mošin 1973). Many of them resemble, in a general sense, the anchor watermarks (with stars) in the undated *Isolario*, although the ones associated with a “BA” countermark (numbers 906–909 in the Mošin atlas) are from publications spanning the mid-16th Century (1550–1560). However, none of those anchor watermarks or countermarks in the Mošin atlas was a match with a watermark recorded from the undated *Isolario*.

(e) *Additional information on the undated Isolario*

The age of the undated book has been debated for nearly 200 years, with estimates ranging from 1537 to 1570 (British Museum 1958; Eco 2000; HARRISSE 1866; Karrow 1993; Rich 1832; Skelton 1966; Valerio 1993), based on assumptions concerning the time of activity of the printer rather than direct physical evidence. Well-dated books by the printer, Francesco de Leno, are known from between 1559 and 1570 and this defines his major period of activity. It is likely that it was his only period of activity. However, several undated books by de Leno (Anonymous 1550?; Apuleius 1561-1570; Petrarca undated) are usually assigned dates prior to 1559, and another book by de Leno is dated 1542 (Erastus 1542). Italy's Servizio Bibliotecario Nazionale considers that “1542” date to be an original typographical error on the title page of the book, because it is significantly earlier than his other books. An assignment by one reference (British Museum 1958) of the undated *Isolario* to the mid-1560s, although coincidentally close to the date estimated here, used an activity period (1561–1567) now known to be too narrow for that printer, because it was based on only ten of the 42 books known to be printed by

him (Table S3). A further complication is that a few copies of Bordone's *Isolario* are hybrids of multiple editions. For example, a copy of the undated edition at Cambridge University contains the title page and preliminary pages of the 1547 edition. These hybrids can be detected by reference to the different type settings used in different editions.

(f) *Books and prints examined*

The following list includes the institution and call numbers for books examined. *Bryn Mawr College*: f467. *Catholic University*: G500.B72 L6 1534. *Columbia University*: Plimpton 511 1561 B64 (2 copies), Plimpton 511 1561 F33, Plimpton 511 1563 F33, Plimpton 945 1568 (=1564) Sa5, Plimpton 511 1570 T12. *Cornell University*: G300.B72 1534++. *Georgetown University*: 87A919, GB471 .P65 1576. *Johns Hopkins University*: 910 P833 Quarto, 914 P833 Quarto, 910.9 B729 1528 Quarto, G500 P83 1605 Quarto c1 (two books bound together). *Lafayette College*: RBR Porcacchi 1590. *Lehigh University*: SC R 910.P833i (two books bound together), SC R 910 P975gI 1598. *Library of Congress*: G114.S26, G500.B7 1534 c1, G500.B7 1534 c2, G500.B7 1547, G1005 1596 Vault, G1005 1597 Vault, G1005 1598 Vault, G1005 1617 Vault 2 copies, G1005 1621 Vault, G1006.T76 1679 Vault, G1006.T76 1683 Vault, G1006.T76 1684 Vault, G1029.B6 1528 Vault, G1029.B6 1560 (Map Cage), G1029 .P6 1576, G1029 .P6 1604, ND1286.M6 Pre1801 Coll., QA33.S5 1568 (Rare Bk. Coll.); three other copies of Porcacchi's atlas listed as present in the LC catalog (G500 .P81, G500 .P825, and G500 .P835) are actually "MIP" (missing in inventory). *National Library of Medicine*: WZ 240 H534I 1565. *New York Public Library*: \*KB 1563 Fiaschi, \*KB 1563 Ruffo, Rare Books 02-159, \*KB+ 1528c1, \*KB+ 1528c2, \*KB+ 1534, \*KB+ 1547c1, \*KB+ 1547c2, \*KB+ 156-, \*KB+ 1572, \*KB+ 1576, \*KB+ 1590, \*KB+ 1604, \*KB+ 1605, \*KB+ 1620. *Newberry Library*: Vault Ayer 7 .B65 1547, Vault Ayer 7 .B65 A, microfilm. *Pennsylvania State University*: G500 P83Q, Microfilm D50 reel 1, No. 5. *Princeton University*: 81075.199, Oversize 1003.73q, Oversize Americana 1528q, Oversize 2003-0036Q (hybrid of multiple editions, not used), Ptolemy 1596 ExKa, Ptolemy 1598 ExKa, Ptolemy 1621 ExKa. *Smithsonian Institution (Dibner Library)*: QA32.B73 1567, QA33.T12 1570, QA33.F314 1560, QA33.S52 1561. *Swarthmore College*: Bathe U101.V243 1564. *University of Illinois*: 909.0942 B644L 1988 (facsimile). *University of Minnesota Bell Library* (photocopies): 1537 fBo (=1565), 1547 fBo. *Yale University Beinecke Library*: 1977+246, 1977+250, 1977+379, 1977+435, 1977+1341, Gfp94 gf525j, Gfp94 Gi597.

In addition, images of title pages or individual prints were obtained from the following institutions: *Biblioteca Apostolica Vaticana* (Capponi V.731, Rossiana.6113(int.1); title pages described), *Biblioteca Civica Pinerolo*, Italy (CNCE 7512), *Biblioteca Comunale Enna*, Italy (CNCE 16190), *Biblioteca Comunale Prato*, Italy (CNCE 41626), *Biblioteca dell'Accademia Nazionale dei Lincei*, Rome, Italy (CNCE 4011), *Biblioteca Medicea Laureziana*, Firenze, Italy (CNCE 48688), *Biblioteca Nazionale Centrale*, Firenze, Italy (CNCE 53407), *Biblioteca Provinciale Messina*, Italy (CNCE 4538), *Biblioteca Trivulziana*, Milan, Italy (CNCE 21107), *Biblioteca Universitaria Alessandrina*, Roma, Italy (CNCE 2103, 4538), *Biblioteca Universitaria*,

Padova, Italy (CNCE 41622), *Biblioteca Valentiniana Camerino*, Italy (CNCE 16046 = coll. S 3 c. C 851), *Biomedical Information Service, University of Minnesota* (Wangensteen 615.32 H4161), *British Library* (11426.bb.22.; title page described), *Brown University* (1-Size H576.P833i), *Burndy Library* (G87.P816 1598, QA33 .S52 1561; QA33 .S52 1568), *Cambridge University, U.K.* (CCE.4.4), *Carnegie Mellon University-Hunt Institute* (CA H538I 565), *Cornell University* (PQ4477 .A3 1550 tiny; title page described), *Emory University* (SF285 .F44 1563), *Georgetown University* (87A919), *Harvard University* (Hollis 006377730), *New York Public Library* (\*KB 1596 Ptolemaeus, \*KB+ 1598 Ptolemaeus, \*KB 1621 Ptolemaeus, \*KB+ 1621 Ptolemaeus), *Ohio State University* (G87.P8 I8 1620), *University of California, Los Angeles* (3275284; title page missing), *University of Chicago* (SF 743.R84 1563), *University of Illinois* (X 513 SF5N1568, XQ. 910.9 P82111572, XQ. 910.9 P82111620), *University of Michigan* (G87.P975 I5 1621, WLC Atlas G3, WLC Atlas N-9-A), *University of North Carolina* (G87.P8 C4 1598, G87.P8 C4 1621), *University of Southern Maine* (G500 .B7 156-; microfilm), *University of Texas Harry Ransom Center* (Q-G113 P975GTIC, 2 copies), *University of Virginia* (A1598.P76), *University of Washington* (910 P959gI, 910 P959gI1), *Wellcome Trust Library*, U.K. (2255/A), *Wesleyan University* (G1005 1598, G1005 1621), and *Yale University* (Gna66 ci550b; 16<sup>th</sup> Cent., Medical History).

**Table S1.** Line breaks in prints from Bordone's *Isolario*. The total number is given for each book examined, along with the numbers for different locations on the prints: borders (inner and outer), map outline, and other objects (rhumb lines, lettering, etc.).

<i>Isolario</i> copy			Number of line breaks			
Year	Library	Call No.	Total	Location		
				Borders	Map	Other
1528	U. Michigan	WLC F 1528	126	81	19	26
1528	L. Congress	G1029.B6 1528	104	68	15	21
1528	Princeton	Oversize Americana 1528q	114	73	19	22
1528	JHU	910.9 B729 1528 Quarto	121	72	24	25
1528	NYPL	*KB+ 1528c1	110	75	19	16
1528	NYPL	*KB+ 1528c2	97	65	17	15
1528	1988 facsimile	(none)	132	95	19	18
1534	Cornell	G300.B72 1534++	189	119	35	35
1534	L. Congress	G500.B7 1534c1	211	131	36	44
1534	L. Congress	G500.B7 1534c1	195	117	31	47
1534	Catholic U.	G500.B72 L6 1534	187	128	22	37
1534	NYPL	*KB+ 1534	213	132	31	50
1547	L. Congress	G500.B7 1547	332	191	57	84
1547	Lehigh U.	SC R 910.P833i	322	186	49	87
1547	NYPL	*KB+ 1547c1	324	192	56	76
1547	NYPL	*KB+ 1547c2	310	175	53	82
1547	U. Minnesota	1547 fBo (1547)	309	170	62	77
1547	Newberry	Ayer 7 .B65 1547	329	182	55	92
Undated	U. Minnesota	1537 fBo (1565)	541	277	87	177
Undated	Johns Hopkins U.	G500 P83 1605 Quarto c1	547	293	80	174
Undated	NYPL	*KB+ 156-	498	276	72	150
Undated	L. Congress	G1029.B6 1560	486	274	69	143
Undated	Newberry	Ayer 7 .B65 A (1565)	495	287	68	140

**Table S2.** Numbers of copies of three Italian Renaissance books in online library catalogs including WorldCat, Servizio Bibliotecario Nazionale, and others in North America and Europe that are not listed WorldCat. Many more copies presumably exist in libraries without electronic catalogs and in private collections.

Author	Edition	Year	Copies in Libraries
Bordone	First	1528	52
Bordone	Second	1534	52
Bordone	Third	1547	70
Bordone	Fourth	undated	25
Porcacchi	First	1572	26
Porcacchi	Second	1576	33
Porcacchi	Third	1590	31
Porcacchi	Fourth	1604	9
Porcacchi	Fifth	1605	11
Porcacchi	Sixth	1620	22
Magini	First	1596	20
Magini	Second	1598	56
Magini	Third	1621	20

**Table S3.** Books printed by Francesco de Leno (Venice, Italy). See full citation of each book in Supplementary references. Where known, the printer's mark is referred to by its designation of the Istituto Centrale per il Catalogo Unico, EDIT 16, Servizio Bibliotecario Nazionale (SBN). Sources: Correspondence = information on printer's mark transmitted from a library, Original = book examined by author, Reproduction = scanned image or photocopy examined, SBN = designation by SBN, Marshall = (Marshall 1970).

Year	Author	Size	Printer's mark	Source and notes
Undated	Bordone (Bordone 1564-1566)	Folio	SBN Z1158	Original; date determined here to be 1564–1566.
“1542”	Erastus (Erastus 1542)	Quarto	SBN Z1158	SBN; date suspected by SBN to be “1562”.
Undated	Petrarca (Petrarca undated)	Octavo	None	Correspondence; a date of 1550 is sometimes given arbitrarily, to represent “mid-Sixteenth Century,” but the correct date is likely 1559–1570.
Undated	Apuleius (Apuleius 1561-1570)	Octavo	SBN Z1157-V423	Reproduction; date is constrained here to 1561–1570, and specifically late 1560's based on printer's mark deterioration.
1559	Cantalicio (Cantalicio 1559)	Octavo	None?	SBN
1559	Corradone (Corradone 1559)	Octavo	None?	SBN
1559	Gerson (Gerson 1559)	Octavo	SBN Z1158	Reproduction
1559	Barzizza (Barzizza 1559)	Octavo	SBN Z1158	Reproduction; copy of printer's mark from Biblioteca Messina (Italy) shows almost no deterioration of woodblock, consistent with 1559 date.
1559	Morato (Morato 1559)	Octavo	None	Original
1560	Baldovinetti (Baldovinetti 1560)	Octavo	None	Reproduction
1560	Feliciano (Feliciano 1560)	Quarto	Unknown	SBN
1561	Donatus (Donatus 1561)	Octavo	None	Correspondence
1561	Borghi (Borghi 1561)	Quarto	None	Original
1561	Feliciano (Feliciano 1561)	Quarto	None	Original
1561	Sfortunati (Sfortunati 1561)	Quarto	SBN Z1157-V423	Original
1561	Tagliente (Tagliente 1561)	Octavo	Unknown	WorldCat
1562	Magnus (Magnus 1562)	Octavo?	Unknown	SBN
1562	Ariosto (Ariosto 1562)	Octavo	None	SBN
1562	Rosselli (Rosselli 1562)	Octavo?	Unknown	Marshall



## Electronic supplementary material

1562	Verini (Verini 1562)	Octavo	None	Correspondence
1563	Feliciano (Feliciano 1563)	Quarto	None	Original
1563	Fiaschi (Fiaschi 1563)	Octavo	SBN Z1158	Original
1563	Ruffus (Ruffus 1563)	Octavo	SBN Z1158	Original
1564	Antonio (Antonio 1564)	Quarto	SBN Z1158	SBN
1564	Messi Sbughi	Octavo	None	Reproduction
1564	Tagliente (Tagliente 1564)	Octavo	None	Original
1564	Dati (Dati 1564)	Octavo	SBN Z1158 and V413	Reproduction
1564	Campani (Campani 1564)	Octavo	None	Reproduction
1564	Della Valle (Della Valle 1564)	Octavo	SBN Z1158	Original
1565	Giovanni Andrea (Giovanni Andrea 1565)	Quarto	None	Reproduction
1565	Arnaldus (Arnaldus 1565)	Octavo	SBN Z1158	Original
1566	Donatus (Donatus 1566)	Quarto	None	SBN
1566	Aesopus (Aesopus 1566)	Octavo	None	Correspondence
1567	Borghi (Borghi 1567)	Quarto	None	Original
1568	Tagliente (Tagliente 1568)	Octavo	SBN Z1157-V423	Reproduction
1568	Sfortunati (Sfortunati 1568)	Quarto	SBN Z1158	Original
1569	Faraoni (Faraoni 1569)	Octavo	SBN Z1157-V423	SBN
1569	Miniatore (Miniatore 1569)	Octavo	Similar to SBN Z1157 but different (recut)	Reproduction
1570	Donatus (Donatus 1570)	Octavo	None	Reproduction
1570	Feliciano (Feliciano 1570)	Quarto	SBN U119	SBN
1570	Tagliente (Tagliente 1570)	Octavo	None	Original
1567-1573	Barzizza (Barzizza 1567-1573)	Octavo	SBN Z1158	Reproduction; date is given as 1559 but analysis here of printer's mark from copy in Biblioteca Universitaria Alessandrina (Italy) indicates 95% CI date of 1567–1573. This represents a second, unrecorded printing of the book by de Leno.

**Table S4.** Watermarks and countermarks identified by the author in books printed by Francesco de Leno (1559–1570). Libraries are CU (Columbia University), LC (Library of Congress), NLM (National Library of Medicine), NYPL (New York Public Library), PR (Princeton University), SI (Smithsonian Institution, Dibner), and SW (Swarthmore College). The numbers in the last two columns refer to similar (not identical) watermarks in two watermark atlases relevant to the time period and location (Briquet 1907; Woodward 1996).

Figure	Watermark	Author (year)	Library	Briquet	Woodward
S2a	Anchor (v1)	Bordone (undated)	LC	525	161, 164, 166, 169
S2b	Anchor (v2)	Bordone (undated)	NYPL	525	161, 164, 166, 169
S2c	Anchor (v3)	Bordone (undated)	NYPL	525	161, 164, 166, 169
S2d	Anchor (v4)	Bordone (undated)	NYPL	525	161, 164, 166, 169
S2e	Anchor (v5)	Arnaldus (1565)	NLM	525	161, 164, 166, 169
S2f	Anchor (v6)	Fiaschi (1563)	NYPL	525	161, 164, 166, 169
S2g	Anchor (v7)	Della Valle (1564)	SW	525	161, 164, 166, 169
S2h	Anchor (v8)	Borghi (1567)	PR	N/A	N/A
S2i	Anchor (v9)	Tagliente (1564)	CU	548-49, 551-53, etc.	178
S3a	Circle with clover	Bordone (undated)	NYPL	3039, 3044-45	N/A
S3b	Crown-IC (v1)	Bordone (undated)	NYPL	4851	N/A
S3c	Crown-IC (v2)	Fiaschi (1563)	NYPL	4851	N/A
S3d	Cardinal's hat (v1)	Sfortunati (1561)	NYPL	3418	237
S3e	Cardinal's hat (v2)	Tagliente (1570)	CU	3418	237
S3f	Cardinal's hat (v3)	Della Valle (1564)	SW	3418	237
S4a	33 (v1)	Feliciano (1561)	CU	557, 13960	N/A
S4b	33 (v2)	Sfortunati (1561)	NYPL	557, 13960	N/A
S4c	3M clover (v1)	Borghi (1567)	PR	513, 559, 571, 3042, 3045, 10564	N/A
S4d	3M clover (v2)	Borghi (1567)	SI	513, 559, 571, 3042, 3045, 10564	N/A
S4e	3AB clover (v1)	Borghi (1567)	PR, SI	10562	N/A
S4f	3AB clover (v2)	Borghi (1567)	PR	10562	N/A
S4g	88	Tagliente (1570)	CU	N/A	N/A
S4h	AA (v1)	Sfortunati (1561); Borghi (1561)	CU	9226	N/A
S4i	AA (v2)	Borghi (1561)	CU	9226	N/A
S4j	AP	Feliciano (1563)	CU	529	N/A
S5a	BA (v1)	Bordone (undated)	NYPL	525	N/A
S5b	BA (v2)	Bordone (undated)	NYPL	525	N/A
S5c	BA (v3)	Bordone (undated)	NYPL	525	N/A
S5d	BA (v4)	Feliciano (1563)	CU	525	N/A
S5e	BA (v5)	Borghi (1561)	CU	525	N/A

*Electronic supplementary material*

S5f	BA (v6)	Della Valle (1564)	SW	525	N/A
S5g	BA (v7)	Arnaldus (1565)	NLM	525	N/A
S5h	BA (v8)	Feliciano (1561)	CU	525	N/A
S5i	BA (v9)	Sfortunati (1561)	NYPL	525	N/A
S5j	BA (v10)	Ruffo (1563)	NYPL	525	N/A
S5k	BA (v11)	Fiaschi (1563)	NYPL	525	N/A
S6a	CC clover	Bordone (undated)	NYPL	3044	N/A
S6b	FC (v1)	Feliciano (1561); Sfortunati (1561)	CU, NYPL	514	N/A
S6c	FC (v2)	Borghi (1561)	CU	514	N/A
S6d	GG clover	Borghi (1561)	CU	N/A	N/A
S6e	HS clover (v1)	Morato (1559)	LC	618, 621, 654, 3482, 4854	N/A
S6f	HS clover (v2)	Tagliente (1570)	CU	618, 621, 654, 3482, 4854	N/A
S6g	IB clover (v1)	Feliciano (1561); Ruffo (1563)	CU, NYPL	521	N/A
S6h	IB clover (v2)	Borghi (1561)	CU	521	N/A
S6i	IM	Borghi (1561)	CU	3047, 3049	N/A
S7a	JC	Feliciano (1561)	CU	N/A	N/A
S7b	NC clover	Sfortunati (1561)	NYPL	623	N/A
S7c	PB clover	Sfortunati (1568)	LC	630-31, 9616, 3501	N/A
S7d	PC clover	Bordone (undated)	NYPL	N/A	N/A
S7e	PN	Sfortunati (1561)	NYPL	N/A	N/A
S7f	SC clover	Sfortunati (1561)	NYPL	517, 3505	N/A

### Supplementary References

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### **Supplementary figures**

Figure S1. Locations of regions (black rectangles) within each of the four copperplate prints sampled for grey level. (a) Cuba, from Porcacchi's *L'isole più famose del mondo* (1620 edition). (b) Hispaniola, from Porcacchi's *L'isole più famose del mondo* (1604 edition). (c) Title page of Porcacchi's *L'isole più famose del mondo* (1576 edition). (d) Map of the world from Magini's *Geographiae*. Originals are from the author's collection and the Library of Congress.

Figures S2–S7. Watermarks and countermarks identified by the author in the undated *Isolario* and in dated books printed by Francesco de Leno (1559–1570). Table S4 describes each watermark and its source document and provides a key, in the left column, to the watermark figures. Narrow lines are chain lines (vertical) and laid lines (horizontal). Laid lines form continuous background in all watermarks, but only clearly visible laid lines are indicated here. Dashed lines of the watermark are regions not visible but presumed to occur as indicated. Thick bulges of portions of lines in the watermark are reproduced as they appeared (as thicker lines). Presumably some of these represent areas where the watermark was sewn to the paper mold ("sewing dots").















