

Editors and Contributors

Editors

MATTHEW H. EDNEY is director of the History of Cartography Project at the University of Wisconsin–Madison and Osher Chair in the History of Cartography at the University of Southern Maine, Portland.

MARY SPONBERG PEDLEY is assistant curator of maps at the William L. Clements Library, University of Michigan, Ann Arbor, and associate editor of *Imago Mundi*.

Associate Editors

ROBERT W. KARROW is a senior fellow at the Newberry Library, Chicago, Illinois, and retired curator of special collections and maps in the Newberry's Roger and Julie Baskes Department of Special Collections.

DENNIS REINHARTZ is professor emeritus of history and Slavic studies at the University of Texas at Arlington.

SARAH TYACKE is former chief executive of The National Archives and Keeper of Public Records U.K. and now a distinguished senior fellow at the School of Advanced Study, University of London, U.K., and chair of the JB Harley Research Fellowship Trust and of the International Records Management Trust.

Contributors

*INDICATES THE ENTRY IS COLLABORATIVE

MIGUEL AGUILAR-ROBLEDO is professor of geography and dean of the Facultad de Ciencias Sociales y Humanidades at the Universidad Autónoma de San Luis Potosí, Mexico.
*Property Mapping in Spanish America**

NILS AHLBERG is an independent scholar based in Stockholm, Sweden.
Urban Mapping in Sweden-Finland

JAMES R. AKERMAN is director of the Hermon Dunlap Smith Center for the History of Cartography and curator of maps at the Newberry Library, Chicago, Illinois.
Atlas in the Enlightenment
Composite Atlas
Geographical Atlas

MARIA FERNANDA ALEGRIA is a researcher for the Centro de Estudos Geográficos in the Instituto de Geografia e Ordenamento do Território, Universidade de Lisboa, Portugal.
Geographical Mapping in Portugal

ANDRÉ FERRAND DE ALMEIDA is a graduate student in the Departamento de História e Filosofia das Ciências, and a researcher at the Centro Interuniversitário de História das Ciências e da Tecnologia (CIUHCT), Universidade de Lisboa, Portugal.
Geographical Mapping in Portuguese America
*Map Collecting in Portugal**

CAROLYN J. ANDERSON is an independent scholar based in Edinburgh, U.K.
Topographical Surveying in Great Britain

J. H. ANDREWS is a consultant editor of the Irish Historic Towns Atlas project in the Royal Irish Academy and former associate professor of geography at Trinity College Dublin, Ireland.
Irish Plantation Surveys

RENATA ARAUJO is professor of arts and humanities at the Universidade do Algarve and professor in the Patrimónios de Influência Portuguesa program in the Centro de Estudos Sociais of the Universidade de Coimbra, Portugal.
Boundary Surveying in Portuguese America
Military Cartography by Portugal

GEOFF ARMITAGE is formerly a curator in the Map Library of the British Library, London, U.K.
Eclipse Map, Solar
World Map

GÖRAN BÄÄRNHJELM is retired curator of maps at Kungliga Biblioteket, Stockholm, Sweden.
*Map Collecting in Sweden-Finland**
*Map Trade in Sweden-Finland**

ELIZABETH BAIGENT is university reader in the history of geography at the University of Oxford, U.K.
Property Mapping in the Enlightenment
Topographical Mapping and the State
Urban Planning and Cartography

PETER BARBER is head of maps and topography at the British Library, London, U.K.
Map Collecting in Great Britain
Medals, Maps on

- ASHLEY BAYNTON-WILLIAMS is an antiquarian map dealer and researcher based in London, U.K.
*English Pilot, The**
- GERALDINE BEECH is former senior map archivist at The National Archives of the U.K. (TNA), Kew.
Trade and Plantations, Board of (Great Britain)
- LARS BEHRISCH is assistant professor of political history in the Onderzoekinstituut voor Geschiedenis en Kunstgeschiedenis at the Universiteit Utrecht, Netherlands.
*Statistics and Cartography**
- BARBARA BELYEA is affiliated with the University of Calgary, Alberta, Canada.
Hudson's Bay Company (Great Britain)
- SARAH BENDALL is development director, fellow librarian, and fellow archivist at Emmanuel College, Cambridge, U.K.
Estate Plan
Leveling
Plane Table
Property Mapping in Great Britain
Surveying Traverse
Triangulation Surveying
- JEAN-MARC BESSE is research director at the Centre national de la recherche scientifique, Paris, France.
*Art and Design of Maps**
*Cartouche**
*Color and Cartography**
*Iconography, Ornamentation, and Cartography**
- MARIO BEVILACQUA is professor of history of architecture at the Università degli Studi di Firenze, Italy.
Nolli, Giovanni Battista
- ZOLTÁN BIEDERMANN is associate professor of Portuguese and Brazilian Studies in the Department of Spanish, Portuguese and Latin American Studies at University College London, U.K.
*Geographical Mapping and Topographical Surveying in the Portuguese East Indies**
*Urban Mapping in the Portuguese East Indies**
- STÉPHANE BLOND is associate professor of history at the Université d'Évry-Val-d'Essonne, France.
Administrative Cartography in the Enlightenment
Administrative Cartography in France
*Anville, Jean-Baptiste Bourguignon d'**
Canal Map
Canal Survey
Itinerary Traverse
Ponts et Chaussées, Engineers and École des (School of Bridges and Roads; France)
Post-Route Map
Road Map
Route Map
Transportation Map
- JOHN BONEHILL is a lecturer in art history at the University of Glasgow, U.K.
*Education and Cartography**
*Landscape, Maps, and Aesthetics**
- DAVID BOSSE is librarian of Historic Deerfield and the Pocumtuck Valley Memorial Association and curator of maps at Historic Deerfield, Massachusetts.
Evans, Lewis
Geographical Mapping in British America
Map Trade in British America
- IDRIS BOSTAN is professor in the Department of History and is the head of the MA Program of Mediterranean Studies at İstanbul Üniversitesi, Turkey.
Marine Charting by the Ottoman Empire
- CATHERINE BOUSQUET-BRESSOLIER is a former engineer and conference manager at the École pratique des hautes études, Paris, France.
Commission topographique of 1802
*Geodetic Surveying by France**
Masse Family
Memoirs, Cartographic
Meter, Survey for the
*Property Mapping in France**
Topographical Survey Map
Topographical Surveying in France
- JEAN BOUTIER is directeur d'études at the École des hautes études en sciences sociales, Marseilles, France.
Urban Mapping in France
- WOUTER BRACKE is head of the Map Room, the Prints Cabinet, and Chalcography of the Koninklijke Bibliotheek van België, Brussels, Belgium, and a professor at the Université Libre de Bruxelles.
Ferraris Survey of the Austrian Netherlands
- BODIL BRANNER is professor emeritus in the Institut for Matematik og Computer Science at the Danmarks Tekniske Universitet, Kongens Lyngby, Denmark.
Bugge, Thomas
- PATRICE BRET is a senior researcher at the Centre Alexandre Koyré, Paris, France.
Engineers and Topographical Surveys
Projections Used for Topographical Survey Plans
- PAUL VAN DEN BRINK is assistant professor in human geography and planning at Universiteit Utrecht, Netherlands.
*Administrative Cartography in the Netherlands**
Cruquius, Nicolaas Samuëlsz.
- MARTIN BRÜCKNER is professor of English and Material Culture Studies at the University of Delaware, Newark.
Wall Map
- BEATRIZ PICCOLOTTO SIQUEIRA BUENO is professor of history at the Universidade de São Paulo, Brazil.
*Geodetic Surveying by Portugal**
Portuguese America
Urban Mapping in Portuguese America
- JUAN CALATRAVA is professor of architectural history in the School of Architecture of the Universidad de Granada, Spain.
Urban Mapping in Spain
- ALICIA CÁMARA is professor of art history at the Universidad Nacional de Educación a Distancia, Madrid, Spain.
Military Cartography by Spain

- CONCEPCIÓN CAMARERO BULLÓN is professor of geography at the Universidad Autónoma de Madrid, Spain.
Property Mapping in Spain
- ANTÓNIO COSTA CANAS is a Navy officer, professor of navigation at the Escola Naval, and researcher at the Centro de Investigação Naval (CINAV), Lisbon, Portugal.
Marine Charting by Portugal
- ANDREA CANTILE is a member of the Istituto Geografico Militare in Florence and a professor at the Università degli Studi di Firenze, Italy.
Geodetic Surveying by the Italian States
- JOAN CAPDEVILA SUBIRANA is the former director of the Servicio Regional del Instituto Geográfico Nacional en Cataluña, Barcelona, Spain.
Boundary Surveying in Spain
- LUÍS MIGUEL CAROLINO is assistant professor of history at the Instituto Universitário de Lisboa (ISCTE-IUL) and researcher at the affiliated Centro de Investigação e Estudos de Sociologia (CIES-IUL), Lisbon, Portugal.
Celestial Mapping by Portugal
- MADLENA CAVELTI HAMMER is editor of the journal *Cartographica Helvetica*.
Heights and Distances, Geometric Determination of Relief Depiction
- OLIVIER CHAPUIS is doctor in history and journalist of the French maritime magazine *Voiles et voiliers*; his blog *Route fond* is at www.voilesetvoiliers.com.
Académie de marine (Academy of Naval Affairs; France)
Bathymetric Map
Beautemps-Beaupré, Charles-François
Bellin, Jacques-Nicolas
Bouguer, Pierre
Buache, Jean-Nicolas
Chabert, Joseph-Bernard, marquis de
Connaissance des temps
Dépôt des cartes et plans de la Marine (Depository of Maps and Plans of the Navy; France)
Fleurieu, Charles-Pierre Claret de
Greenwich-Paris Triangulation
La Caille, Nicolas-Louis de
Marine Atlas
Marine Chart
Marine Charting by France
Marine Charting in the Enlightenment
Marine Compass
Marine Measures
Marine Traverse
Navigation and Cartography
Neptune du Cattegat et de la mer Baltique
Neptune français and Hydrographie française
North, Magnetic and True
Octant and Sextant
Pilot Book
Projections Used for Marine Charts
Repeating Circle (Repeating Theodolite)
Sounding of Depths and Marine Triangulation
- MICHAEL CHARLESWORTH is professor of art and art history at the University of Texas at Austin.
Packe, Christopher
- DANIEL CLAYTON is senior lecturer of geography at the University of St. Andrews, U.K.
Cook, James
- TIM CLAYTON is senior fellow of the Paul Mellon Centre, London, and honorary research fellow of the British Museum, London, and of the University of East Anglia, Norwich, U.K.
Engraving and Printing
- MARÍA ANTONIA COLOMAR ALBÁJAR is retired archivist, Archivo General de Indias, Seville, Spain.
Urban Mapping in Spanish America
- MARGARIDA TAVARES DA CONCEIÇÃO is researcher at the Instituto de História da Arte of the Universidade Nova de Lisboa and assistant professor of architectural history at the Universidade Autónoma de Lisboa, Portugal.
Urban Mapping in Portugal
- ANDREW S. COOK is former map archivist of the Oriental and India Office Collections at the British Library, London, U.K.
Dalrymple, Alexander
East India Company (Great Britain)
Hydrographical Office, Admiralty (Great Britain)
- KAREN SEVERUD COOK is special collections librarian in the Kenneth Spencer Research Library at the University of Kansas, Lawrence.
Defoe, Daniel
Geological Map
Manuscript Reproduction
- MARIE-ANNE CORVISIER-DE VILLÈLE is chief curator of heritage in the Département de l'armée du Terre du Service historique de la Défense, Vincennes, France.
League of Augsburg, War of the
Naudin Family
- PEDER DAM is associated with cultural heritage and archaeology for the Odense City Museums, Denmark.
Videnskabernes Selskabs kort (Academy of Sciences and Letters map series; Denmark)
- STEPHEN DANIELS is professor emeritus of cultural geography at the University of Nottingham, U.K.
*Education and Cartography**
*Landscape, Maps, and Aesthetics**
- EDWIN DANSON is a geospatial science historian and a fellow of the Royal Institution of Chartered Surveyors, Chartered Institute of Civil Engineering Surveyors, and the Royal Astronomical Society, U.K.
Geodetic Surveying by Great Britain
Mason-Dixon Line
- CESARE DE SETA is professor emeritus of architectural history at the Università degli Studi di Napoli Federico II, Italy.
Cities and Cartography

- †LOUIS DE VORSEY was professor emeritus of geography at the University of Georgia, Athens.
Boundary Surveying in British America
De Brahm, William Gerard
Gulf Stream
- ANTAL ANDRÁS DEÁK is associated with the Duna Múzeum, Esztergom, Hungary.
Marsigli, Luigi Ferdinando
Müller, Johann Christoph
- SUZANNE DÉBARBAT continues her scientific research as honorary titular astronomer at the Observatoire de Paris, France.
*Geodetic Surveying by France**
Paris Observatory (France)
- ELLY DEKKER is an independent scholar based in Linschoten, Netherlands.
Astronomical Models
Celestial Globe
Constellations, Representation of
Globes in the Enlightenment
Instructional Texts for the Use of Globes
Lunar Globe
Pocket Globe
Relief Globe
Terrestrial Globe
- CATHERINE DELANO-SMITH, former reader in historical geography at the University of Nottingham, U.K., is presently Senior Research Fellow at the Institute of Historical Research, School of Advanced Studies, University of London, U.K., and editor of *Imago Mundi*.
Signs, Cartographic
- NICHOLAS DEW is associate professor of early modern European history at McGill University, Montreal, Québec, Canada.
*Geodesy and the Size and Shape of the Earth**
- MARIA HELENA DIAS is retired professor at the Universidade de Lisboa and an advisor to the Centro de Informação Geospacial do Exército (CIGeoE), Lisbon, Portugal.
*Geodetic Surveying by Portugal**
Property Mapping in Portugal
Topographical Surveying in Portugal
- WOLFRAM DOLZ is senior curator for the collections of earth and heaven globes and geodetic instruments at the Mathematisch-Physikalischer Salon, Dresden, Germany, and vice president of the International Coronelli Society for Globes, Vienna, Austria.
Topographical and Geodetic Surveying in the German States
Zürner, Adam Friedrich
- DARIUSZ R. DUKACZEWSKI is professor and head of the Department of Geoinformation and Cartography at the Instytut Geodezji i Kartografii, Warsaw, Poland.
Urban Mapping in Poland
- BRIAN LEIGH DUNNIGAN is emeritus associate director and curator of maps in the William L. Clements Library at the University of Michigan, Ann Arbor.
Battle Map
Fortification Plan
- HENRIK DUPONT is former map curator at the Kongelige Bibliotek, Copenhagen, Denmark.
Denmark and Norway
Geographical Mapping and Topographical Surveying in Denmark and Norway
Map Collecting in Denmark
Map Trade in Denmark
Military Cartography by Denmark and Norway
Sørensen, Jens
- JORDANA DYM is professor of history and director of Latin American Studies at Skidmore College, Saratoga Springs, New York.
Administrative Cartography in Spanish America
Travel and Cartography
- MATTHEW H. EDNEY is director of the History of Cartography Project at the University of Wisconsin–Madison and Osher Chair in the History of Cartography at the University of Southern Maine, Portland.
Altimetry
British America
Celestial Mapping in the Enlightenment
*Geodesy and the Size and Shape of the Earth**
Geodetic Surveying in the Enlightenment
Geographical Mapping in the Enlightenment
German States
Great Theodolite
Green, John
History and Cartography
Linear Measures in the Enlightenment
*Map Collecting in the Enlightenment**
Meridians, Local and Prime
Modes of Cartographic Practice
United States of America
- MARCO VAN EGMOND is curator of maps, atlases, and printed works at Universiteitsbibliotheek Utrecht, Netherlands.
Covens & Mortier (Netherlands)
Map Trade in the Netherlands
- †ULLA EHRENSVÄRD was a Swedish art historian, librarian, and archivist.
Administrative Cartography in Sweden-Finland
Boundary Surveying in Sweden-Finland
Celestial Mapping by Sweden-Finland
Geodetic Surveying by Sweden-Finland
Marine Charting by Sweden-Finland
Military Cartography by Sweden-Finland
Sweden-Finland
Thematic Mapping in Sweden-Finland
- HANS-ULI FELDMANN is editor-in-chief of the journal *Cartographica Helvetica*.
*Switzerland**

- CHRISTIAN FIESELER works in special collections and inventory management at the Niedersächsische Staats- und Universitätsbibliothek Göttingen, Germany.
*Statistics and Cartography**
- CLÁUDIA DAMASCENO FONSECA is professor and co-director of the Centre de recherches sur le Brésil colonial et contemporain / Mondes Américains in the École des hautes études en sciences sociales, Paris, France.
Topographical Surveying in Portuguese America
- ANNA FELICITY FRIEDMAN is founder of the Center for Tattoo History and Culture and was formerly assistant curator at the Adler Planetarium and Astronomy Museum, Chicago, Illinois.
Flamsteed, John
Hevelius, Johannes
Pardies, Ignace-Gaston
- JÚNIA FERREIRA FURTADO is professor of early modern history at the Universidade Federal de Minas Gerais, Belo Horizonte, Brazil.
Administrative Cartography in Portuguese America
*Indigenous Peoples and European Cartography**
Property Mapping in Portuguese America
Society of Jesus (Rome)
- JOÃO CARLOS GARCIA is professor of geography at the Universidade do Porto, Portugal.
*Geographical Mapping in Portuguese Africa**
*Map Collecting in Portugal**
*Map Trade in Portugal**
Portugal
*Portuguese Africa**
*Topographical Surveying and Urban Mapping in Portuguese Africa**
- JOHN GASCOIGNE is professor emeritus of history at the University of New South Wales, Australia.
Academies of Science in Great Britain
- JEAN-LOUIS GLÉNISSON is a librarian and the director of the Médiathèque François-Mitterrand et son réseau, Poitiers, France.
Administrative Cartography in the French West Indies
Boundary Surveying in the French West Indies
Topographical Surveying in the French West Indies
- WALTER GOFFART is professor emeritus of history, University of Toronto, Ontario, Canada, and senior research scholar in history, Yale University, New Haven, Connecticut.
Historical Atlas
Historical Map
- †THOMAS D. GOODRICH was professor emeritus of history at the Indiana University of Pennsylvania.
Map Collecting in the Ottoman Empire
- RONALD E. GRIM is an independent map consultant and former curator of maps at the Norman B. Leventhal Map Center at the Boston Public Library, Massachusetts.
Property Mapping in British America
Urban Mapping in British America
- ERLEND DE GROOT teaches art history at Radboud Universiteit Nijmegen, Netherlands, and at the Centre for European Studies at Maastricht University, Netherlands.
Map Collecting in the Netherlands
- ANNA GUARDUCCI is associate professor of geography and historical geography at the Università degli Studi di Siena, Italy.
Boundary Surveying in the Italian States
- GOTTFRIED HAGEN is professor of Turkish Studies at the University of Michigan, Ann Arbor.
Ottoman Empire, Geographical Mapping and the Visualization of Space in the
- LUCILE HAGUET is curator in charge of cultural heritage at the Bibliothèque municipale, Le Havre, France.
*Anville, Jean-Baptiste Bourguignon d'**
- DAVID L. HAYS is associate professor of landscape architecture at the University of Illinois at Urbana-Champaign.
Garden Plan
- ELGER HEERE is researcher of geoinformatics (GIS) at Hogeschool Utrecht, Netherlands.
*Geographical Mapping in the Netherlands**
*Military Cartography and Topographical Surveying by the Netherlands**
- MARKUS HEINZ is deputy manager of the map department at the Staatsbibliothek zu Berlin-PK, Germany.
Academies of Science in the German States
Homann Family
Map Trade in the German States
- ROLF FALK HELBIG is a retired professor from the Hochschule für Technik und Wirtschaft, Dresden, Germany.
Zach, Franz Xaver von
- AGUSTÍN HERNANDO is retired professor of geography at the Universitat de Barcelona, Spain.
Geographical Mapping in Spain
Map Collecting in Spain
Map Trade in Spain
- MICHAEL RAND HOARE is an honorary research fellow for the Center of Taiwan Studies, SOAS, University of London, and formerly reader in theoretical physics, University of London, U.K.
Lapland and Peru, Expeditions to
- YOLANDE HODSON is an independent scholar and former curator in the Map Library of the British Library, London, U.K.
Military Cartography by Great Britain
Roy, William
- CATHERINE HOFMANN is head conservator in the Département des cartes et plans of the Bibliothèque nationale de France, Paris.
Map Collecting in France
Sanson Family

- HANS-PETER HÖHENER is editor of the journal *Cartographica Helvetica* and former head of the Kartensammlung, Zentralbibliothek Zürich, Switzerland.
Administrative Cartography in Switzerland
Boundary Surveying in Switzerland
Military Cartography by Switzerland
*Switzerland**
Thematic Mapping in Switzerland
Urban Mapping in Switzerland
- GERHARD HOLZER is a curator at the Österreichische Akademie der Wissenschaften, Vienna.
Boundary Surveying in the Austrian Monarchy
Euler, Leonhard
Fricx, Eugène Henry
Reilly, Franz Johann Joseph von
- DANIEL HOPKINS is professor emeritus of geography at the University of Missouri, Kansas City.
Danish West Indies
- JULIAN HOPPIT is Astor Professor of British History at University College London, U.K.
*Economy, Cartography and the**
- STEPHEN J. HORNSBY is director of the Canadian American Center and professor of anthropology and Canadian studies at the University of Maine, Orono.
Atlantic Neptune, The
- THOMAS HORST holds a post-doctoral position at the Centro Interuniversitário de História das Ciências e da Tecnologia (CIUHCT), Universidade de Lisboa, Portugal, and is editor of the review section of *Imago Mundi*.
Urban Mapping in the German States
- MIKKO HUHTAMIES is principal investigator in the Department of Philosophy, History, Culture, and Art Studies at the Helsingin Yliopisto, Finland.
Property Mapping in Sweden-Finland
Sveriges Lantmäteriet (Swedish Land Survey)
- ARMIN HÜTTERMANN is professor at the Pädagogische Hochschule Ludwigsburg, Germany.
Mayer, Tobias
- ANTTI JAKOBSSON is chief engineer and program manager at the Maanmittauslaitos, Helsinki, Finland.
Topographical Surveying in Sweden-Finland
- NILS VOJE JOHANSEN is lecturer in the Matematisk institutt at the Universitetet i Oslo, Norway.
Boundary Surveying in Denmark and Norway
Geodetic Surveying by Denmark and Norway
- ALEXANDER JAMES COOK JOHNSON is an independent scholar and the coproprietor of Antiquariat Daša Pahor, Munich, Germany.
Administrative Cartography in British America
Administrative Cartography in Great Britain
Geographical Mapping in Great Britain
Great Britain
Holland, Samuel (Johannes)
Revolution, American
Thematic Mapping in Great Britain
Topographical Surveying in British America
- ÇİĞDEM KAFESCİOĞLU is professor of history at Boğaziçi Üniversitesi, Istanbul, Turkey.
Urban Mapping in the Ottoman Empire
- ROGER J. P. KAIN is Distinguished Professor of Humanities, School of Advanced Study, University of London, U.K., and is editor of Volume Five, *Cartography in the Nineteenth Century*, of *The History of Cartography*.
Cadastral Surveying
Cadastral Map
Taxation and Cartography
- NICK KANAS is professor emeritus of psychiatry at the University of California, San Francisco, and a fellow of the Royal Astronomical Society in London, U.K.
Celestial Mapping by Great Britain
- ÍRIS KANTOR is professor of history at the Universidade de São Paulo, Brazil.
Academies of Science in Portugal
*Map Trade in Portugal**
- THOMAS KLÖTI is retired from the Universitätsbibliothek Bern (Ryhiner Map Collection), Switzerland.
Map Collecting in Switzerland
Map Trade in Switzerland
- †NIKOLAY N. KOMEDCHIKOV was chair of the Department of Cartography at Rossiyskaya Akademiya nauk, Moscow, Russia.
*Akademiya nauk (Academy of Sciences; Russia)**
Geographical Mapping in Russia
- PETER KORSGAARD is archivist at the Styrelsen for Dataforsyning og Effektivisering, Copenhagen, Denmark.
Administrative Cartography in Denmark and Norway
Property Mapping in Denmark and Norway
Urban Mapping in Denmark and Norway
- PAWEŁ KOWALSKI is senior lecturer and research scientist of cartography at the Faculty of Geography and Regional Studies, Uniwersytet Warszawski, Poland.
Thematic Mapping in Poland
- †INGRID KRETSCHMER was president of the Austrian Cartographic Commission and associate professor of cartography in the Department of Geography and Regional Research at the Universität Wien, Austria.
Color Printing
Lambert, Johann Heinrich
Typographic Printing
- PETER VAN DER KROGT is Jansonius curator and head of the Explokart Research Program in the History of Cartography at Allard Pierson, the Collections of the Universiteit van Amsterdam, Netherlands.
*Geographical Mapping in the Netherlands**
Netherlands, Republic of the United
- ISABELLE LABOULAIS is professor of modern history at the Université de Strasbourg, France.
Académie des sciences (Academy of Sciences; France)
Guettard, Jean-Étienne

*Revolution, French
Thematic Mapping in France*

LUCIE LAGARDE is a former conservator in the Département des cartes et plans of the Bibliothèque nationale de France, Paris.

Sea of the West

GILLES-ANTOINE LANGLOIS is professor at the École nationale supérieure d'architecture de Paris Val de Seine, France, and a researcher at the Université de Paris-Diderot and at the Laboratoire EVCAU, France.

*Compagnie des Indes (Company of the Indies; France)
French West Indies*

Geographical Mapping in New France and the French West Indies

New France

Property Mapping in New France and the French West Indies

Urban Mapping in New France

Urban Mapping in the French West Indies

LAMBERTO LAURETI is retired associate professor of geography in the Department of Earth Sciences and the Environment at the Università degli Studi di Pavia, Italy.

Thematic Mapping in the Italian States

†CLAIRE LEMOINE-ISABEAU was map curator at the Musée royal de l'armée et d'histoire militaire, Brussels, Belgium.

Netherlands, Southern

CARLA LOIS is professor at the Universidad de Buenos Aires, Argentina, researcher at the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), and coeditor of Volume Five, *Cartography in the Nineteenth Century*, of *The History of Cartography*.

*Property Mapping in Spanish America**

MANUEL LUCENA GIRALDO is research scientist at the Consejo Superior de Investigaciones Científicas, Madrid, Spain, and associate professor at IE Universidad, Madrid, Spain.

*Boundary Surveying in Spanish America
Spain*

Spanish America

ALISTAIR S. MAEER is associate professor of history at Texas Wesleyan University, Fort Worth.

*English Pilot, The**

Marine Charting by Great Britain

†JOAQUIM ROMERO MAGALHÃES was professor emeritus of economics at the Universidade de Coimbra, Portugal.

Portuguese East Indies

STUART MALIN is retired head of the Department of Astronomy and Navigation, National Maritime Museum, Greenwich, London, U.K.

Greenwich Observatory (Great Britain)

GINEVRA MARIANI is associated with the Istituto Centrale per la Grafica, Rome, Italy.

Calcografia Camerale (Copperplate Printing Administration; Rome)

LUISA MARTÍN-MERÁS VERDEJO is former director of the Museo Naval, Madrid, Spain.

Marine Charting by Spain

Tofiño de San Miguel y Vandewalle, Vicente

ROBERT J. MAYHEW is professor of historical geography and intellectual history at the University of Bristol, U.K.

Geography and Cartography

Public Sphere, Cartography and the

SJOERD DE MEER is curator of cartography at the Maritiem Museum, Rotterdam, Netherlands.

Marine Charting by the Netherlands

HÉCTOR MENDOZA VARGAS is professor of geography and history and of the history of cartography at the Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico.

Geographical Mapping in Spanish America

LEENA MIEKKAVAARA is former curator of the A. E. Nordenskiöld Collection at the Kansalliskirjasto, Helsinki, Finland.

*Map Collecting in Sweden-Finland**

MARICA MILANESI is former professor of history of geography and cartography at the Università degli Studi di Pavia, Italy.

Coronelli, Vincenzo

HEATHER HYDE MINOR is professor of art history at the University of Notre Dame, Indiana.

Antiquarianism and Cartography

DALE MIQUELON is emeritus professor of history at the University of Saskatchewan, Saskatoon, Canada.

Utrecht, Treaty of (1713)

JAN MOKRE is head of the Kartensammlung and Globenmuseum at the Österreichische Nationalbibliothek, Vienna, Austria.

Military Cartography and Topographical Surveying by the Austrian Monarchy

JOSÉ OMAR MONCADA MAYA is researcher in the Instituto de Geografía of the Universidad Nacional Autónoma de México, Mexico City.

Topographical Surveying in Spanish America

MARK MONMONIER is Distinguished Professor of Geography in the Maxwell School of Citizenship and Public Affairs at Syracuse University, New York, and editor of Volume Six, *Cartography in the Twentieth Century*, of *The History of Cartography*.

Climate Map

LUÍS MIGUEL MOREIRA is assistant professor of geography at the Universidade do Minho, Portugal.

Boundary Surveying in Portugal

RENAUD MORIEUX is senior lecturer in British history at the University of Cambridge, U.K.

*Economy, Cartography and the**

- JOEL L. MORRISON is professor emeritus of geography at Ohio State University, Columbus, and associate editor of Volume Six, *Cartography in the Twentieth Century*, of *The History of Cartography*.
Isobath
Isoline
*Projections Used for Geographical Maps**
- FRANCESC NADAL is professor of geography at the Universitat de Barcelona, Spain.
Administrative Cartography in Spain
Topographical Surveying in Spain
- JOACHIM NEUMANN is professor emeritus of cartography at the Hochschule Karlsruhe Technik und Wirtschaft, Germany.
Büsching, Anton Friedrich
Geographical Mapping in the German States
Military Cartography by the German States
School Atlas
Thematic Mapping in the German States
- DANIEL NORDMAN is honorary research director at the Centre national de la recherche scientifique, Paris, France.
Boundary Disputes and Cartography
Boundary Surveying in France
- LUCIA NUTI is professor of the history of architecture and urban history at the Università di Pisa, Italy.
Urban Map in the Enlightenment
Urban Mapping in the Italian States
Urban Plan
Urban View
- FRANCISCO ROQUE DE OLIVEIRA is assistant professor in the Instituto de Geografia e Ordenamento do Território at the Universidade de Lisboa, Portugal.
*Geographical Mapping and Topographical Surveying in the Portuguese East Indies**
*Urban Mapping in the Portuguese East Indies**
- RICHARD OLIVER is honorary research fellow in the history of cartography at the University of Exeter, U.K.
Urban Mapping in Great Britain
- FERJAN ORMELING is professor emeritus of cartography at the Universiteit Utrecht and member of the Explokart Research Program in the History of Cartography at Allard Pierson, the Collections of the Universiteit van Amsterdam, Netherlands.
Thematic Mapping in the Netherlands
- JEAN-FRANÇOIS PALOMINO is curator of the Heritage Collections at the Bibliothèque et Archives nationales du Québec, Montreal, Canada.
Administrative Cartography in New France
Boundary Surveying in New France
Franquelin, Jean Baptiste Louis
Topographical Surveying in New France
- VALERIA PANSINI is assistant professor at the Université Rennes 2, France.
Military and Topographical Surveys
Military Cartography in the Enlightenment
- JESPER ASGER PEDERSEN is former chart curator at Geodatastyrelsen, Nørresundby, Denmark.
Marine Charting by Denmark and Norway
- KURT MØLLER PEDERSEN is professor emeritus of mathematics at Aarhus Universitet, Denmark.
Celestial Mapping by Denmark and Norway
- MARY SPONBERG PEDLEY is assistant curator of maps at the William L. Clements Library, University of Michigan, Ann Arbor, and associate editor of *Imago Mundi*.
*Map Collecting in the Enlightenment**
Map Trade in the Enlightenment
Map Trade in France
Privilege and Copyright
Robert de Vaugondy Family
*Urban Mapping in the Enlightenment**
- MONIQUE PELLETIER is former director of the Département des cartes et plans at the Bibliothèque nationale de France, Paris.
Buache, Philippe
Carte de France
Cassini (I), Jean-Dominique
Cassini (II), Jacques
Cassini (III) de Thury, César-François
Cassini (IV), Jean-Dominique
Colbert, Jean-Baptiste
Delisle Family
Geographical Mapping in France
Military Cartography by France
Picard, Jean
- JEFFREY N. PETERS is professor of French and Francophone studies at the University of Kentucky, Lexington.
Allegorical and Satirical Maps
- MARCO PETRELLA is assistant professor of geography at the Università degli Studi del Molise, Campobasso, Italy.
Academies of Science in the Italian States
- CHRISTINE M. PETTO is professor of history at Southern Connecticut State University, New Haven.
Women and Cartography
- ANNA-MAIJA PIETILÄ-VENTELÄ is emerita curator of the map collection at the Kansalliskirjasto, Helsinki, Finland.
*Map Trade in Sweden-Finland**
- PIERRE PINON is former professor at the School of Architecture of Paris-La Défense and Paris-Belleville and director of research at the Centre national de la recherche scientifique, Paris, France.
*Urban Mapping in the Enlightenment**
- ALEXEY V. POSTNIKOV is professor of history of science and technology and chief research fellow at the Rossiyskaya Akademiya nauk S. I. Vavilov Institute of the History of Science and Technology, Moscow, Russia, and director of *Imago Mundi*.
Administrative Cartography in Russia
*Akademiya nauk (Academy of Sciences; Russia)**
Bering Expeditions to Northeast Asia
Boundary Surveying in Russia

Kipriyanov, Vasilii Onufriyevich
Kirilov, Ivan Kirilovich
Lomonosov, Mikhail Vasil'yevich
Marine Charting by Russia
Nagayev, Aleksey Ivanovich
Pallas, Peter Simon
Property Mapping in Russia
Russia
Sarychev, Gavriil Andreyevich
Soymonov, Fëdor Ivanovich
Tatishchev, Vasilii Nikitich
Thematic Mapping in Russia
Urban Mapping in Russia

PAOLA PRESENTA is associate professor of geography and history of cartography at the Università degli Studi di Torino, Italy.
Property Mapping in the Italian States

MARGARET BECK PRITCHARD is a senior curator at Colonial Williamsburg, Virginia.
Decoration, Maps as

PATRICE RACT is head of technical services in the Département de la conservation at the Bibliothèque nationale de France, Paris.
Dépôt de la Guerre (Depository of the War Office; France)

ANTONIO T. REGUERA RODRÍGUEZ is professor of geography at the Universidad de León, Spain.
Thematic Mapping in Spain

FRANK REICHERT is an independent researcher and works as branch manager at the Bund der Öffentlich bestellten Vermessungsingenieure, Berlin, Germany.
Property Mapping in the German States

DENNIS REINHARTZ is professor emeritus of history and Slavic studies at the University of Texas at Arlington.
Household Artifacts, Maps on

MANONMANI RESTIF-FILLIOZAT is managing archivist of the francearchives.fr portal, Service interministériel des Archives de France, Paris.
French East Indies
Neptune oriental, Le

JORGE MACIEIRINHA RIBEIRO is a researcher at the Centro de Estudos Geográficos da Universidade de Lisboa, Portugal.
*Geographical Mapping in Portuguese Africa**
*Portuguese Africa**
*Topographical Surveying and Urban Mapping in Portuguese Africa**

HÉLÈNE RICHARD, formerly head of the Département des cartes et plans, Bibliothèque nationale de France, is retired from the Ministère de l'Éducation nationale, Paris.
Celestial Mapping by France
France

MARTIN RICKENBACHER is the national representative for Switzerland to *Imago Mundi* in London, U.K., and is chair-

man of the working group on the history of cartography in the Schweizerische Gesellschaft für Kartografie.
Geodetic Surveying by Switzerland
Property Mapping in Switzerland
Topographical Surveying in Switzerland

CHRISTOPHER JACOB RIES is manager of Historical Collections at the Statens Naturhistoriske Museum, Copenhagen, Denmark.
Niebuhr, Carsten

MICHAEL RITTER is an independent researcher based in Sielenbach, Germany.
Seutter, Probst, and Lotter Families

LEONARDO ROMBAI is professor emeritus in the Department of History, Archaeology, Geography, Art, and Entertainment at the Università degli Studi di Firenze, Italy.
Administrative Cartography in the Italian States
Geographical Mapping in the Italian States
Topographical Surveying in the Italian States

VICENÇ M. ROSSELLÓ is professor emeritus of geography at the Universitat de València, Spain.
López de Vargas Machuca, Tomás

MARIO RUIZ MORALES is associate professor of geodesy and cartography at the Universidad de Granada, Spain.
Celestial Mapping by Spain
Geodetic Surveying by Spain

NEIL SAFIER is the Beatrice and Julio Mario Santo Domingo Director and Librarian of the John Carter Brown Library and associate professor of history at Brown University, Providence, Rhode Island.
Academies of Science in Spain
California as an Island
*Indigenous Peoples and European Cartography**
La Condamine, Charles-Marie de
Madrid, Treaty of (1750)
Ulloa, Antonio de, and Jorge Juan

ALISON SANDMAN is associate professor of history at James Madison University, Harrisonburg, Virginia.
Longitude and Latitude

FİKRET SARICAOĞLU is professor of history at the İstanbul Üniversitesi, Turkey.
Administrative Cartography in the Ottoman Empire
Boundary Surveying in the Ottoman Empire
Military Cartography by the Ottoman Empire
Property Mapping in the Ottoman Empire
Topographical Maps in the Ottoman Empire

ALBRECHT SAUER is a curator and head of the library at the Deutsches Schiffahrtsmuseum, Bremerhaven, Germany.
Marine Charting by the German States

ALESSANDRO SCAFI is lecturer in medieval and renaissance cultural history at the Warburg Institute, School of Advanced Study, University of London, U.K.
Cosmographical Map
Cultural and Social Significance of Globes

- DANIEL SCHLÖGL is library director at the Institut für Zeitgeschichte München-Berlin, Munich, Germany.
Customs Administration Map
- UWE SCHWARZ is an independent scholar based in Bergisch Gladbach, Germany, with the website www.geofan.de.
Wiebeking, Carl Friedrich von
- STEVEN SEEGL is professor of history at the University of Northern Colorado, Greeley.
Poland-Lithuania, Partitions of
- ZUR SHALEV is senior lecturer of history at the University of Haifa, Israel.
Religion and Cartography
- JILL SHEFRIN is a senior research associate in arts at Trinity College, University of Toronto, Ontario, Canada, an associate fellow at the Centre for the Study of Play and Recreation, University of Greenwich, U.K., a fellow of the Royal Historical Society, and a former librarian with the Osborne Collection of Early Children's Books, Toronto Public Library, Ontario, Canada.
Games, Cartographic
- ANA CRISTINA NOGUEIRA DA SILVA is professor of history of law at the Law School of the Universidade Nova de Lisboa, Portugal.
Administrative Cartography in Portugal
- CÉCILE SOUCHON is retired curator of maps, plans, and photographs in the Archives nationales de France, Paris.
*Property Mapping in France**
- ANTONIO STOPANI is assistant professor at the Università degli Studi di Torino, Italy.
Boundary Survey Plan
Boundary Surveying in the Enlightenment
- MARTIJN STORMS is curator of maps and atlases at the Universitaire Bibliotheken Leiden at Universiteit Leiden, Netherlands.
*Administrative Cartography in the Netherlands**
*Military Cartography and Topographical Surveying by the Netherlands**
Property Mapping in the Netherlands
Urban Mapping in the Netherlands
- JAN STRANG is an independent scholar based in Helsinki, Finland.
Geographical Mapping in Sweden-Finland
- GIORGIO STRANO is curator at the Museo Galileo, Florence, Italy.
Celestial Mapping by the Italian States
- MARIA LUISA STURANI is associate professor of geography at the Università degli Studi di Torino, Italy.
Topographical Surveying in the Enlightenment
- PETRA SVATEK is a scientific researcher for history of science and modern times at the Universität Wien and the Österreichische Akademie der Wissenschaften, Vienna, Austria.
Artaria Family
Austrian Monarchy
- Geodetic Surveying by the Austrian Monarchy*
Liesganig, Joseph
Marinoni, Johann Jakob
Militär-Ingenieurakademie (Academy for Military Engineers; Austrian Monarchy)
Property Mapping in the Austrian Monarchy
Thematic Mapping in the Austrian Monarchy
Urban Mapping in the Austrian Monarchy
Vischer, Georg Matthäus
- LUCYNA SZANIAWSKA is retired from the Map Department at the Biblioteka Naradowa, Warsaw, Poland.
Administrative Cartography in Poland
Map Trade in Poland
Poland
Property Mapping in Poland
Topographical Surveying in Poland
- RENÉ TEBEL is a former member of the Institut für Geschichte, Universität Wien, Austria.
Anich, Peter
Hase, Johann Matthias
Josephinische Landesaufnahme (Josephine Survey; Austrian Monarchy)
- NORMAN J. W. THROWER is professor emeritus of remote sensing, cartography, and geography at the University of California, Los Angeles, and retired director of UCLA's Clark Library.
Halley, Edmond
- ZSOLT G. TÖRÖK is professor of cartography and geoinformatics at Eötvös Loránd University, Budapest, Hungary.
Balkans
Karlowitz, Treaty of (1699)
Mikoviny, Samuel
Thematic Mapping in the Enlightenment
- PASQUALE TUCCI is retired professor of history of physics at the Università degli Studi di Milano, Italy.
Boscovich, Ruggiero Giuseppe
- JUDITH A. TYNER is professor emerita of geography at California State University, Long Beach.
Samplers, Map
- VLADIMIRO VALERIO is former professor of projective geometry at the Università Iuav di Venezia, Italy, and founder of the Associazione Roberto Almagià (Italian Map Collector Society).
Cassini, Giovanni Maria
Italian States
Map Trade in the Italian States
Officina Topografica (Topographical Mapping Office; Naples)
Rizzi Zannoni, Giovanni Antonio
- NICOLAS VERDIER is research director at the Centre national de la recherche scientifique and director of studies at the École des hautes études en sciences sociales, Paris, France.
*Art and Design of Maps**
*Cartouche**

*Color and Cartography***Iconography, Ornamentation, and Cartography**

ISABELLE WARMOES is a research engineer and deputy director of the Musée des Plans-reliefs, Paris, France.
Plan-relief
Relief Map

DEBORAH JEAN WARNER is curator in the Division of Medicine and Science in the National Museum of American History, Washington, D.C.

*Back Staff**Chain**Circumferentor**Instruments, Astronomical**Level**Perambulator**Precision Devices for Angle Measurement**Theodolite, Graphomètre, and Similar Instruments*

†FRANZ WAWRIK was head of the Kartensammlung and Globenmuseum at the Österreichische Nationalbibliothek, Vienna, Austria.

Map Collecting in the Austrian Monarchy

DIEDERICK WILDEMAN is curator of navigation and library collections at the Scheepvaartmuseum, Amsterdam, Netherlands.

*Verenigde Oost-Indische Compagnie (VOC; United East India Company; Netherlands)**West-Indische Compagnie (WIC; West India Company; Netherlands)*

GLYNDWR WILLIAMS is professor emeritus of history at Queen Mary University of London, U.K.

*Imaginary Geographies and Apocryphal Voyages**Northwest Passage**Pacific Voyages**Southern Continent*

MICHAEL WINTLE is professor emeritus of modern European history at the Universiteit van Amsterdam, Netherlands.

*Nationalism and Cartography**Projections Used for Geographical Maps**

CHARLES W. J. WITHERS is Geographer Royal for Scotland and Ogilvie Chair of Geography in the School of Geosciences at the University of Edinburgh, U.K.

*Adair, John**Consumption of Maps**Encyclopedias**Enlightenment, Cartography and the**History of Cartography**Metaphor, Map as**Rennell, James**Science and Cartography**Scotland, Military Survey of (Great Britain)**Sibbald, Robert*

LAURENCE WORMS is owner of Ash Rare Books and teaches annually at the London Rare Books School, U.K.

*Jefferys, Thomas**Map Trade in Great Britain**Ogilby, John*

LIUDMILA ZINCHUK is curator and head of the Department of Cartography of the Rossiyskaya gosudarstvennaya biblioteka, Moscow, Russia.

*Map Collecting in Russia**Map Trade in Russia*

RONALD EDWARD ZUPKO is professor emeritus of history at Marquette University, Milwaukee, Wisconsin.

*Itinerary and Geographical Measures**Reform of Linear Measures**Surveying Measures*

