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*An Inventory of the Collections of the  
Middle American Research Institute*

No. 3. MAPS IN THE FREDERICK L. HOFFMAN COLLECTION

*Prepared by*

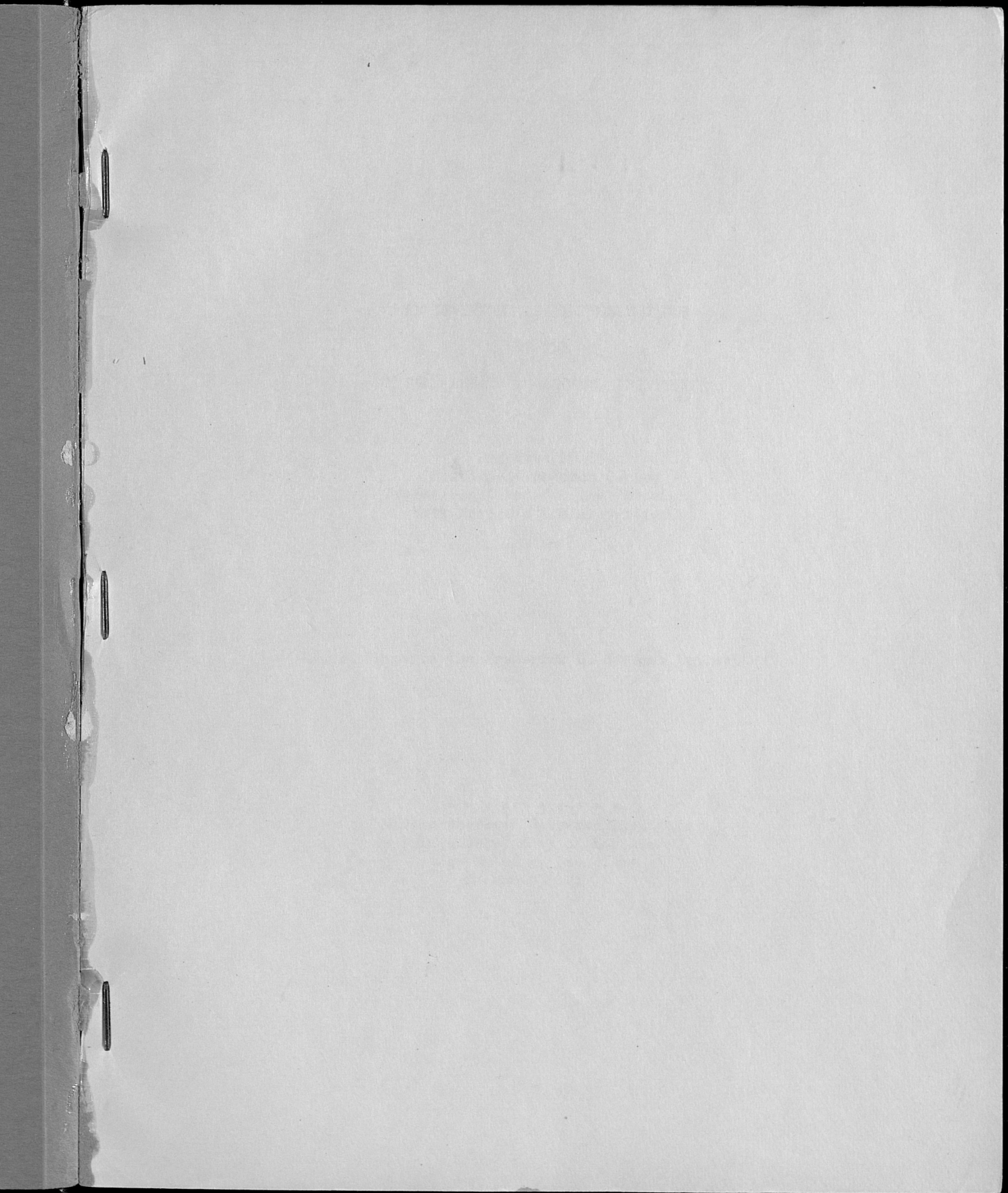
THE HISTORICAL RECORDS SURVEY  
PROFESSIONAL AND SERVICE DIVISION  
WORK PROJECTS ADMINISTRATION

GOVERNMENT PUBLICATION.

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DECEMBER, 1939





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## FOREWORD

Herewith is presented a catalog of maps, compiled by the Historical Records Survey, Division of Professional and Service Projects, Work Projects Administration. The catalog covers that portion of the map collection of the Middle American Research Institute, which was acquired through the generosity of Dr. Frederick L. Hoffman, eminent statistician, scientist, and scholar. It contains 852 entries of which 368 refer to South America and 300 to Middle America. While many entries describe maps drawn to accompany or illustrate text material, a large number of them are separates.

These maps and other materials were collected by Dr. Hoffman for study to orient himself in the "known facts" of the countries through which his investigations led. His own words best imply his method: "I have been in the real tropics of Panama, Cuba, Jamaica, Costa Rica, etc., etc., and in all cases I have gone into the most infected localities, yet, never even once have I had malaria nor any other tropical affliction, due largely to foresight and a careful regard to the known facts (Field letter, no.38, of the South American Investigation, July 14, 1921).

The Middle American Research Institute takes this occasion to pay tribute to Dr. Hoffman for his valuable contributions to knowledge, and to gratefully acknowledge his generosity. It also wishes to acknowledge its gratitude to the Historical Records Survey for the careful preparation of this catalog. Through its preparation the Historical Records Survey has made it possible to further the dissemination of knowledge; which Dr. Hoffman so methodically collected.

*Frans Blom*

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## PREFACE

The Historical Records Survey was organized and has been directed by Dr. Luther H. Evans. From February 1936 until November 1936, the nation-wide Survey operated within the framework of the Federal Writers' Project. From November 1936 until August 31, 1939, the Survey was an independent part of WPA Federal Project No. 1. Since September 1, it has operated as a series of state projects under the nation-wide WPA Historical Records Survey Program.

In Louisiana, a unit of the Survey began operations in March 1936, under Lyle Saxon, State Director of the Writers' Project. Since March 10, 1937, when the present State Supervisor was appointed, the Survey has been separate from the Writers' Project. Since July 1938, Vergil L. Bedsole, Supervisor, has been in immediate charge of the Louisiana Project during the absence from the state of the State Supervisor on regional business. The official sponsor of the Louisiana Historical Records Survey Project is the Department of Archives, Hill Memorial Library, Louisiana State University. Dr. Edwin A. Davis, Archivist, is the official sponsor's representative. The co-sponsor for this particular publication is the Middle American Research Institute, Tulane University of Louisiana. Frans Blom, Director, is the co-sponsor's representative.

The preparation of a list of the Maps in the Hoffman Collection was begun in 1936, under the supervision of Dr. Gaspar Lugano, assistant to Mr. Saxon in charge of the Historical Records Survey. The WPA form 15HR was used to describe each map. These in turn were checked and rechecked. A list was then prepared and an attempt was made to obtain a reasonable degree of brevity, by the adoption of abbreviations, and by carefully reduced bibliographical citations.

A more or less arbitrary form of arrangement of entries was adopted. Under each of the geographical name headings indicated in the table of contents, the arrangement of entries is alphabetical by key word in the title, rather than by first word in the title. The order of arrangement in each entry is: ~~exact~~ title of map; cartographer; publisher or printer; date; description of map; method of presentation of map; type; scale; and size. A second paragraph gives the bibliographical citation in abbreviated form. Whenever maps are separate, no bibliographical citation is given. Titles in brackets indicate an assigned title from some source on the map itself.

Unless otherwise stated, the maps are printed, black and white. Measurements are in centimeters, length by width. Attention should be called to the list of abbreviations, the bibliography, p. 126, and to the specialized map index, p. 144.

The Survey editors have received aid and guidance in matters of entry and bibliographical form throughout the whole period of the work on this collection from Arthur E. Gropp, Librarian of the Middle American Research Institute, for which we are most grateful.

The maps are keyed by number to the entry numbers in this list, and should be easily accessible to interested individuals.

The Survey is indebted to National, Regional, and State WPA officials for aid in the preparation of volumes of which this publication is representative. This is especially true of Mrs. Leo G. Spofford, Chief Regional Supervisor, and Miss Alma S. Hammond, State Director, of the Professional and Service Division, under which the Survey Project operates. Mr. Blom, Mr. Gropp, and Maurice Ries, of the MARI, have all given much time in criticism and helpful suggestions in the preparation of this volume. Salo K. Lowe, formerly foreman of the Survey unit at the Institute, has, since his connection with the University through a Carnegie Grant, been of material assistance in bringing this work to completion. The final checking of the entire draft was done by Jessie R. Kelly.

John C. L. Andreassen  
State Supervisor  
Historical Records Survey  
OP 65-1-64-34  
SW 40027-2707

New Orleans  
September 27, 1939

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A. America, General

1. INDEX TO ADMIRALTY PUBLISHED CHARTS ALLUDED TO IN THIS WORK [The West Indies Pilot], Hydrographic Department, Admiralty, Davies and Co., Engr., London, 1929. SD 65. 00° to 33° latitude N. and 50° to 99° longitudes W. of Greenwich. Index to British Admiralty charts of gulf states of the United States, east coast of Central America, north coast of South America. Outl. Hydro. 18.7 x 27.

British admiralty, 1929, v. 1, f.p. 1.

2. DISTRIBUTION OF AGRICULTURE IN THE NEW WORLD. Distribution of archaic agriculture: arid regions of considerable altitude with irrigation; humid lowlands; temperate zones of North, Central, and South America. Outl. Ethnog. 13.9 x 8.9.

Spinden, 1922, p. 62.

3. AMERICA, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE EXISTING AND PROJECTED RAILROADS OF NORTH, CENTRAL AND SOUTH AMERICA, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. 60° N. to 55° S. latitudes and 10° to 150° longitudes W. of Greenwich. Proposed location of the Intercontinental Railway, surveys made; proposed extensions; surveys projected; railways in operation; railways projected. Boundaries (partly in dispute), capitals, cities and towns. Com., phy., pol. Col. 1: 18,000,000. Elevations in feet. 76.7 x 63.2.

Intercontinental railway commission, 1895-98, v. 1, back.

4. ENTWICKELUNG DES KARTENBILDES VON AMERIKA II, J. B. Homann, 1716; A. Stieler, 1823. 60° N. and 55° S. latitudes and 200° and 380° longitudes E. 2 maps of North and South America as originally printed by Homann and by Stieler. Hist., phy., pol. Col. 13.9 x 11; 13.9 x 10.3.

Sievers, 1914, f.p. 19.

5. KARTE DER ISOTHERMEN UND ISOBAREN VON AMERIKA. From Berghaus' Physikal Atlas u. J. V. Hann. 60° N. to 55° S. latitudes and 20° to 180° longitudes W. of Greenwich. 4 maps giving isothermic and isobaric readings for North, Central, and South America for the months of January and July. Outl. Meteor. Col. 1: 100 000 000. 14.7 x 11.

Sievers, 1914, insert pp. 58-59.

6. [AMERICAN CONTINENT]. Accompanying a diagram of American chronology. Primary invasion from Asia via Alaska or upper paleolithic or lower neolithic, without agriculture, pottery or weaving. 15,000 - 10,000 B.C. Outl. Com., ethnog. 6.1 x 4.5.

Spinden, 1922, f.p. 228.

7. DISTRIBUTION OF ARCHAIC CULTURE. Distribution of archaic culture in North, Central, and South America: distribution of archaic figurines; extension of pottery; ultimate extension of pottery. Outl. Ethnog. 13.8 x 9.

Spinden, 1922, p. 6.

8. ATCHISON, TOPEKA & SANTA FE RAILROAD, Poole Brothers, Chicago, ca. 1891. Western United States and northern Mexico. Outl. Com. 16.1 x 23.

Beatty, 1891, f.p. 7.

9. AYUTLA, GUATEMALA, TO TUCUMAN, ARGENTINA, Intercontinental Railway Commission, A. Hoen and Co., Lith., 1898. Profile V. Elevation of surveys on line of proposed Intercontinental Railway; existing and projected railways from Ayutla, Guatemala to Tucuman, Argentina. Pro. Com., phy. Hor. 1: 5.068800, ver. 1: 144000. Elevations in feet. 26.6 x 95.5. Intercontinental railway commission. 1895-98, v. 1, back.

10. CASTILLO'S MAP, 1541, Castillo, 1541. 15° to 25° latitudes N. Western coast of Mexico and California as known to the Spanish in 1541. Outl. Hist. 7.4 x 9.8.

Bancroft, 1882, p. 153.

11. CENTRAL AMERICA, INCLUDING TEXAS, CALIFORNIA, AND THE NORTHERN STATES OF MEXICO, J. and C. Walker, Sc., Chapman and Hall, London, 1842. Published under the Superintendence of the Society for the Diffusion of Useful Knowledge. 23° to 42° latitudes N. and 92° to 125° longitudes W. of Greenwich. Early explorations on coast of California by Juan Cobrillo [i.e., Juan Cabrillo], 1542; Francis Drake, 1578. Areas to west of the Colorado River traversed by Padres Garces and Font, 1775, and by Padres Escalante and Domingo, 1777. Supposed site of the Aztec civilization in twelfth century A. D. 36° to 37° latitudes N. and 110° to 112° longitudes W. of Greenwich. Aztec ruins discovered by Graces in 1773 on Gila and San Pedro Rivers. Distribution of Indian Tribes. Bays, capes, forts, islands, lakes, mountains, ports, rivers, roads and trails, towns (population given when over 3,000), volcanoes. Arch., com., ethnog., hist., phy., pol., stat. Mntd., sha. 4 3/16 in. = 500 mi. Elevations above sea level in yards. 31.2 x 39.5.

12. [CENTRAL AMERICA, PANAMA, WEST INDIES, MEXICO, GULF STATES OF THE UNITED STATES AND LOWER CALIFORNIA], Emery Walker, Sc. Principal geological formations. Outl. Geol. 3/4 in. = 500 mi. 6.1 x 8.9.

Central America, 1910-1911, p. 675.

13. COLOMBIA AND PARTS OF COSTA RICA, ECUADOR AND VENEZUELA, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE PROJECTED RAILROADS, Intercontinental Railway Commission, A. Hoen and Co., Lith. Baltimore, 1898. 11° N. to 01° S. latitudes and 70° to 85° longitudes W. of Greenwich. Proposed location of the Intercontinental Railway, surveys made; proposed extensions, surveys projected; railways in operation and projected. Com., phy., pol. Col., mntd. 74.8 x 92.5.

Intercontinental railway commission, 1895-98, v. 1, back.

14. MAP OF DARIEN AND TIERRA FIRME. 06° to 18° latitudes N. and 76° to 91° longitudes W. of Greenwich. Bays, capes, islands, rivers, and towns of what is now Guatemala, Honduras, Nicaragua, Costa Rica, Panama, and Columbia. Outl. Hist. 1: 7,300,000. 18.4 x 24.2.

Bancroft, 1882, f.p. 1.

15. DIEGO RIBERO'S MAP, 1529, Diego Ribero, 1529. 60° N. to 55° S. latitudes. Reduced copy of early Spanish map of North, Central, and South America. Outl. Hist. 16.6 x 9.8. Bancroft, 1882, f.p. 146.

16. GRACE LINE AND CONNECTING LINES INCLUDING TRANSANDINE RAILROAD, Wendell P. Colton Co., New York, ca. 1923. Steamer routes of Grace Line from New York to west coast of South America via Panama Canal; route of Transandine Railway from Valparaiso, Chile to Buenos Aires, Argentine; connecting steamer route from Buenos Aires to New York. Com., pol. Col. 20.4 x 17.8. Grace Line, 1923, f.p. 10.

17. [INTERCONTINENTAL SURVEY], Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1891-93. The reports of Corps 2 and 3. Line of survey of proposed Intercontinental Railway, existing and projected railways; topography of country covered by survey. Profiles of line of survey, railways existing. Com., phy. Col. Unless otherwise stated, scale is: 1: 48,000. Profiles: Hor. 1: 48,000, ver. 1: 4,800. Elevations in feet.

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Intercontinental railway commission, 1895-98, portfolios 2 and 3.

18. JUAN DE LA CASA'S MAP, 1500, Juan de La Cosa, 1500. Reduced copy. Southern coast of North America, West Indies, and northern coast of South America as known at that date. Outl. Hist. 8.7 x 9.7. Bancroft, 1882, p. 115.

19. MAPS OF LATIN AMERICA, Department of Commerce, ca. 1920. 30 maps of Latin America. Boundaries fixed and in dispute; capitals, cities and towns; railways in operation and projected, wagon roads, trails; canals, lakes, marshes, navigable and unexplored rivers, water falls. Com. pol. Unless otherwise stated the scale is: 1:4,000,000. Elevations in meters.

1. Mexico, Northwest. 22°30' to 33° latitudes N. and 108° to 120° longitudes W. of Greenwich. 25.7 x 29.2. 2. Mexico, Northeast. 24° to 32° latitudes N. and 96° to 108° longitudes W. of Greenwich. 23.1 x 29.2. 3. Mexico, Southwest. 16° to 24° latitudes N. and 96° to 108° longitudes W. of Greenwich. 23.6 x 33. 4. Mexico, Southeast. 16° to 24° latitudes N. and 84° to 96° longitudes W. of Greenwich. 23 x 33. 5. Cuba. 16° to 24° latitudes N. and 72° to 84° longitudes W. of Greenwich. 23 x 33. 6. Porto Rico. 16° to 24° latitudes N. and 60° to 72° longitudes W. of Greenwich. 23 x 32.9. 7. Central America, West. 08° to 16° latitudes N. and 84° to 96° longitudes W. of Greenwich. 23 x 33.8. 8. Panama-Colombia, North. 07° to 16° latitudes N. and 72° to 84° longitudes W. of Greenwich. 24.6 x 33.9. 9. Venezuela, North. 08° to 16° latitudes N. and 59° to 72° longitudes W. of Greenwich. 22.9 x 36.8. 10. Colombia, West. 00° to 09° latitudes N. and 72° to 84° longitudes W. of Greenwich. 25.4 x 34.3. 11. Colombia-Venezuela. 00° to 08° latitudes N. and 60° to 72° longitudes W. of Greenwich. 23 x 34.4. 12. Guianas. 00° to 08° latitudes N. and 48° to 60° longitudes W. of Greenwich. 23 x 34.4. 13. Ecuador. 00° to 08° latitudes S. and 72° to 84° longitudes W. of Greenwich. 23 x 34. 14. Brazil, Upper Amazon.

00° to 08° latitudes S. and 60° to 72° longitudes W. of Greenwich. 23 x 34.4. 15. Brazil, Lower Amazon. 00° to 08° latitudes S. and 48° to 60° longitudes W. of Greenwich. 23 x 34. 16. Brazil, Northeast. 00° to 08° latitudes S. and 34° to 48° longitudes W. of Greenwich. 23.1 x 39.9. 17. Peru, Central. 08° to 16° latitudes S. and 72° to 84° longitudes W. of Greenwich. 22.9 x 33.6. 18. Peru-Bolivia, North-Brazil. 08° to 16° latitudes S. and 60° to 72° longitudes W. of Greenwich. 23 x 33.7. 19. Brazil, North Central. 08° to 16° latitudes S. and 48° to 60° longitudes W. of Greenwich. 22.9 x 33.7. 20. Brazil-East Central. 08° to 16° latitudes S. and 34° to 48° longitudes W. of Greenwich. 23 x 39.6. 21. Bolivia-South. 16° to 24° latitudes S. and 60° to 74° longitudes W. of Greenwich. 23.1 x 38.2. 22. Brazil, South Central. 16° to 24° latitudes S. and 48° to 60° longitudes W. of Greenwich. 22.9 x 32.6. 23. Brazil, Southeast. 16° to 24° latitudes S. and 36° to 48° longitudes W. of Greenwich. 22.8 x 32.7. 24. Chile-Argentina, North. 24° to 32° latitudes S. and 60° to 72° longitudes W. of Greenwich. 23 x 31.4. 25. Argentina-Brazil-Uruguay, North. 24° to 32° latitudes S. and 46° to 60° longitudes W. of Greenwich. 23 x 36.8. 26. Chile-Argentina, Central. 32° to 40° latitudes S. and 60° to 74° longitudes W. of Greenwich. 23.2 x 33.9. 27. Argentina, East Uruguay, South. 32° to 40° latitudes S. and 48° to 60° longitudes W. of Greenwich. 23.1 x 29.2. 28. Chile-Argentina, South. 40° to 48° latitudes S. and 60° to 76° longitudes W. of Greenwich. 23 x 34.8. 29. Chile-Argentina, Extreme South. 48° to 56° latitudes S. and 57° to 76° longitudes W. of Greenwich. 23 x 36.2. 30. [A map of Latin America]. 35° N. to 55° S. latitudes and 20° to 140° longitudes W. of Greenwich. 3 in. = 1,000 mi. 50.8 x 42.6.

U. S. Bureau of foreign and domestic commerce, 1920.

20. MANUSCRIPT MAP, AUTHOR UNKNOWN, SUPPOSED TO HAVE BEEN DRAWN BETWEEN 1532 AND 1540. Southwestern part of North American continent. Yucatan is represented as an island. Outl. Hist. 5.1 x 9.8. Bancroft, 1882, p. 154.

21. MAP IN MUNICH ATLAS, SUPPOSED TO HAVE BEEN DRAWN ABOUT 1518. 00° to 50° latitudes N. Reduced copy. North and Central America, northern coast of South America as known in 1518. Outl. Hist. 7.9 x 9.8.

Bancroft, 1882, p. 133.

22. [CAMINO DE FIERRO NACIONAL MEXICANO], ca. 1898. Route of Mexican National Railway from Corpus Christi, Texas to Mexico City. Capitals, principal cities and towns. Com., pol. 14.7 x 10.5. Mexican national railroad, <sup>c</sup>1898, f.p. 78.

23. MEXICO. 15° to 32° latitudes N. and 86° to 116° longitudes W. of Greenwich. A railway map including the Gulf States of the United States, British Honduras, part of Guatemala. Com., phy., pol. Col. 14.2 x 20.8.

Conkling, 1884, front.

24. MEXICO, Stanford's Geographical Establishment, London, ca. 1885. 13° to 32° latitudes N. and 85° to 117° longitudes W. of Greenwich. Includes the Gulf States of the United States, British Honduras,

Guatemala, Honduras, and Salvador. Com., phy., pol. Col. 1 3/4 in.=  
300 mi. 16.4 x 21.9.  
Bates, 1885, f.p. 1.

25. EAST AND NORTH COASTS OF MEXICO, CENTRAL AND SOUTH AMERICA,  
U. S. Hydrographic Office, Washington, 1929. Index E. 07° to 27° lati-  
tudes N. and 70° to 98° longitudes W. of Greenwich. Index to U. S. Hy-  
drographic Office Charts, corrected to July '29. Outl. Hydro. Col.  
33.3 x 44.3. 3 insets: 1. General Charts. 33° N. to 05° S. latitudes  
and 55° to 83° longitudes W. of Greenwich. 7 x 10.5. 2. Panama. 07°  
to 10° latitudes N. and 77° to 83° longitudes W. of Greenwich. 7.9 x  
14.1. 3. West Indies, Lesser Antilles and Venezuela. 08° to 19° lati-  
tudes N. and 60° to 70° longitudes W. of Greenwich. 18.3 x 18.  
U. S. Hydrographic office, 1929, front.

26. AREA OF MEXICO COMPARED WITH PART OF THE UNITED STATES, F. A.  
Godoy, ca. 1911, Mexico compared with area of the states east of the  
Mississippi River and south of New York State. Outl. Pol., stat. 3.5  
x 10.  
Pan American union, 1911, p. 52.

27. COMPARATIVE MAP OF MEXICO AND THE UNITED STATES EAST OF THE  
MISSISSIPPI RIVER, ca. 1924. Republic of Mexico comprising 28 states and  
2 territories is about equal to that part of the United States lying east  
of the Mississippi River minus the New England States and the State of  
Wisconsin. Outl. Pol., stat. 10 x 10.  
Abbott, 1924, p. 6.

28. [NORTHEASTERN MEXICO AND GULF STATES OF UNITED STATES]. 24°  
to 34° latitudes N. and 84°15' to 101° longitudes W. of Greenwich. Cities  
and towns, hydrographic and terrestrial communication. Com., hydro., pol.  
Col. 58 x 80. On verso: Southeastern Mexico. 13°30' to 24° latitudes  
N. and 87° to 101° longitudes W. of Greenwich. Cities and towns, terres-  
trial communication. Com., phy., pol. Col. 1: 2,000 000. 58 x 80.

29. MAP OF NEW SPAIN UNDER THE VICEROYS. 15° N. to 36° S. lati-  
tudes and 84° to 122° longitudes W. of Greenwich. Cities and towns of  
North America, Mexico, and Central America under the rule of the Spanish  
Viceroys. Hist. 1: 7 300 000. 34.8 x 46.1.  
Bancroft, 1883-87, v. 3, front.

30. NEW YORK, UNITED STATES, TO BUENOS AIRES, ARGENTINA, Inter-  
continental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898.  
Profile I. Elevation in feet of existing and projected railways, and of  
survey of line of proposed Intercontinental Railway from New York to  
Buenos Aires, via Mexico, Guatemala, El Salvador, Nicaragua, Costa Rica,  
Honduras, Colombia, Ecuador, Peru, Bolivia, Chile, and Argentina. Pro.  
Com., phy., pol. Hor. 1: 10,137,600, ver. 1: 144,000. 26.6 x 91.7.  
Intercontinental railway commission, 1895-98, v. 1, back.

31. ETHNOLOGICAL AND PHILOLOGICAL MAP OF NORTH AMERICA SHOWING THE  
GENERAL DISTRIBUTION OF THE INDIGENOUS RACES AND THE POSITION OF THE VAR-  
IOUS LINGUISTIC FAMILIES, Stanford's Geographical Establishment, London,  
ca. 1885. Includes Alaska, Canada, United States, Mexico, and Central



America. Outl. Col. 13.5 x 9.9.  
Bates, 1885, p. 442.

32. [NORTH, CENTRAL, AND SOUTH AMERICA], Pan American Union. Principal cities and ports. Outl. Pol. 23.6 x 15. 3 additional copies on file.

Pan American union, 1922, back.

33. CHARACTERISTIC TRACK AND WIND SYSTEM OF TROPICAL CYCLONE OF NORTHERN HEMISPHERE, U. S. Hydrographic Office, Washington, ca. 1929. 15° to 40° latitudes N. and 65° to 83° longitudes W. of Greenwich. Velocity along track in high, middle, and low latitudes. Outl. Meteor. 12.7 x 8.7.

U. S. Hydrographic office, 1929, p. 29.

34. PANAMA-COLOMBIA, NORTH. North C-D, 17-18. Preliminary edition, subject to correction. 08° to 16° latitudes N. and 72° to 84° longitudes W. of Greenwich. Principal cities and towns, railways. Com., pol. Mntd. 49 x 67.6.

35. PETER MARTYR'S MAP, 1511, Peter Martyr, 1511. Reduced copy of map of the American continent showing only Spanish discoveries. This map is the most accurate made to that date. Outl. Hist. 6.7 x 9.7.  
Bancroft, 1882, p. 127.

36. MAP SHOWING THE PROPOSED ROUTES OF INTEROCEANIC COMMUNICATION, Sarony and Co., Lith., New York, ca. 1854. 05° to 50° latitudes N. and 65° to 125° longitudes W. of Greenwich. Comparative sailing distances from New York to San Francisco via: Tehuantepec, Honduras, Nicaragua, Panama. Com., pol. 31.3 x 35.9.

Squier, 1854, f.p. 62.

37. RIO SAVEGRE, COSTA RICA, TO QUITO, ECUADOR, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. Profile III. Elevation of existing and projected railways, and of the survey of the proposed Intercontinental Railway's line from Rio Savegre, Costa Rica to Quito, Ecuador, via Panama and Colombia. Pro. Com., phy. Hor. 1: 2,534,400, ver. 1: 72000. Elevations in feet. 26.7 x 61.

Intercontinental railway commission, 1895-98, v. 1, back.

38. SALESMAN ROUTING, M. J. Meehan, ca. 1925. Salesman's routing to and from New York, Colon, Miami, and the West Indies. 2 in. = 300 mi. Outl. Com. Mim. 18.2 x 28.8.

Meehan, 1925, p. 3.

39. SOUTH & CENTRAL AMERICA, MEXICO, & CUBA, The London Geographical Institute, London, 1930. Specially drawn for the South American Handbook, 1930. 30° N. to 60° S. latitudes and 30° to 110° longitudes W. of Greenwich. The international boundaries adopted are given under reserve and without prejudice irrespective of the unsettled claims existing between Peru and Ecuador, Bolivia and Paraguay. Approximate boundaries of the disputed areas are indicated by dotted lines, and those of political occupation, by colors. The arbitrary line dividing Bolivia and the Paraguayan Chaco is that of the annulled 1894 treaty.

Com., pol. Col. 3 11/16 in. = 1,400 mi. 46.1 x 36.6. Inset: British Isles: On the same scale. 50° to 60° latitudes N. and 02° E. to 31° W. longitudes from Greenwich. 5.1 x 4.5.

Davies, 1930, f.p. 1.

40. SOUTHERN PACIFIC LINES AND CONNECTIONS, Rand McNally and Co., Chicago. Southern Pacific and Connecting railways in United States and Mexico. Steamer routes from Galveston and New Orleans to Cuba. Outl. Com., pol. 12.4 x 22.9.

New York commercial, 1921, back.

41. REGENKARTE VON SUDAMERIKA, W. Sievers. After Berghaus' Physical Atlas and various sources. 25° N. to 56° S. latitudes and 30° to 100° longitudes W. of Greenwich. Annual rainfall in Central and South America, precipitation in millimeters. Meteor. Sha. 1: 75 000 000. 12.5 x 10.

Sievers, 1914, p. 61.

42. KARTE DER FORSCHUNGSREISEN IN SUD-UND MITTEL-AMERIKA BIS ZUR GEGENWART. 35° N. to 55° S. latitudes and 30° to 105° longitudes W. of Greenwich. Principal routes traveled and dates of establishment of towns along the routes; routes taken by Columbus on his first voyage, 1492-93; second voyage, 1493; third voyage, 1498; fourth voyage, 1502-04; Americus Vesputius, 1499-1500, 1501-02; Pinzon Dias de Solis, 1508-09; Magellan, 1519-22; others. Com., hist. Col. 21.7 x 15.2. Inset: Neuere Reisen in Paragonien. 40° to 56° latitudes S. and 65° to 75° longitudes W. of Greenwich. 7.1 x 4.2.

Sievers, 1914, f.p. 7.

43. GEOLOGISCHE KARTE VON SUD-U. MITTEL-AMERIKA. After Steinmann, Brackebusch, Stubel, Sapper, and others. 25° N. to 55° S. latitudes and 30° to 130° longitudes W. of Greenwich. Distribution of alluvium and diluvium formations, mesozoic, paleozoic, and tertiary formations, and archaean formations from volcanic eruptions. Location of coal, copper, gold, iron, lead, nickel, silver, petroleum deposits, salt beds, and mineral water springs in Central and South America. Econ., geol. Col. 1: 50,000,000. 18.2 x 22.1. Inset: Argentinische Kordillere. 22° to 34° latitudes S. and 62° to 72° longitudes W. of Greenwich. 1: 12,000,000. 11 x 8.7.

Sievers, 1914, f.p. 52.

44. VEGETATIONSKARTE VON SUD-U. MITTEL-AMERIKA. After O. Drude, K. Reiche, K. Sapper, W. Sievers, A. Weberbauer, and various sources. 30° N. to 60° S. latitudes and 30° to 100° longitudes W. of Greenwich. Vegetation of tropical, sub-tropical, temperate, and frigid zones. Econ., phy. Col. 1: 50 000 000. 21.1 x 15.1.

Sievers, 1914, f.p. 67.

45. DIE HEUTIGE VERBREITUNG DIE SUD-UND MITTELAMERIKANISCHEN INDIANER, Th. Koch-Grunberg, after Sprachgruppen. 24° N. to 54° S. latitudes and 36° to 90° longitudes W. of Greenwich. 36 linguistic groups of Middle and South America. Outl. Ethnog. Col. 22.3 x 15.4.

Sievers, 1914, f.p. 81.

46. VERKEHRSKARTE VON SUD-UND MITTEL-AMERIKA. 15° N. to 55° S. latitudes and 30° to 95° longitudes W. of Greenwich. Central and South America and the West Indies. Cities and towns, consulates, principal products of export, foreign and South American operated railways and steamer routes, submarine and telegraph cables, wireless stations. Com., econ., pol. Col. 1: 30 000 000. 31 x 22.6. 7 insets: 1. Buenos Aires. 1: 250 000. 5.1 x 5.1. 2. Callao-Lima. 1: 500 000. 5.4 x 5.8. 3. Georgetown. 1: 100 000. 4.7 x 5. 4. Kleine Antillen. 1: 12 000 000. 6.5 x 5.9. 5. Montevideo. 1: 125 000. 4.9 x 7.8. 6. Pará (Belem). 1: 144 000. 4.9 x 5. 7. Valparaiso. 1: 125 000. 3.7 x 5.1. Sievers, 1914, between pp. 92-93.

47. TEHUANTEPEC - ITS RELATION TO THE UNITED STATES, Russell and Struthers, Engr., New York, ca. 1880. Routes from New York, New Orleans, Galveston, and Mobile to the Pacific coast, Australia, the Orient, west coast of South America, and from San Francisco to the Atlantic coast and Europe via the Isthmus of Tehuantepec. Outl. Com., pol. Col. 17 x 21.5. Inset: Table of comparative distances via Tehuantepec and Panama. Anderson, 1880, f.p. 58.

48. COMPARISON OF THE TEHUANTEPEC, NICARAGUA AND PANAMA ROUTES, E. F. Fisk, Engr., New York, ca. 1895. Comparison of routes of travel from New York, New Orleans, and Galveston to San Francisco by way of the isthmuses of Nicaragua, Panama, and Tehuantepec, and around Cape Horn. Corthell, 1895, f.p. 12.

49. MAP OF THE UNITED STATES AND MEXICO, Johnson and Browning, New York, 1859. Published under the direction of Col. Carlos Butterfield and entered according to Act of Congress in the year 1859 by Johnson and Browning in the Clerk's office of the District Court of the United States for the Southern District of New York. 06° to 49° latitudes N. and 64° to 126° longitudes W. of Greenwich. The United States, Mexico, Central America, Panama, and northern coast of South America, with capitals, principal cities and ports, railways of United States and Mexico, route of United States and Mexican Mail Steam Ship Line, steamer routes, routes traveled by Columbus on his first voyage to West Indies, 1492, and by Ojedo and Vespucci to West Indies and the Gulf of Maracaybo, South America, 1500. Com., hist., phy., pol. Col., mntd. 75.5 x 91. Inset: Map Showing the Routes of the Ocean Steamers. 90° N. to 20° S. latitudes and 60° E. to 140° W. longitudes from Greenwich. 26.2 x 35.2.

50. [WESTERN UNITED STATES AND NORTHERN MEXICO], Rand McNally and Co., Chicago. National Railway of Mexico, Oregon and Washington, Oregon R. R. and Nav. Co., Oregon Short Line, Southern Pacific, Sunset Route in the states west of the Mississippi River, and northern Mexico. Outl. Com., pol. 11.1 x 15.8. Bourdon, n.d., p. 31.

B. Middle America  
I. Middle America, General

51. AMERICA CENTRAL. 08° to 18° latitudes N. and 80° to 94° longitudes W. of Paris. Costa Rica, Guatemala, Honduras, Nicaragua, and Pan-

ama, with their capitals, principal cities and towns, railways. Com., phy., pol. 11.5 x 13.8.

Mejia, 1922, f.p. 34.

52. MAPA DE PARTE DE LA AMERICA CENTRAL QUE MANIFIESTA EL PUNTO DE LA PROYECTADA COMUNICACION ENTRE LA BAHIA DE VERA CRUZ EN EL SENO MEJICANO Y EL GOLFO DE TEHUANTEPEC EN EL PACIFICO, Ackermann and Co., London. 05° to 30° latitudes N. and 75° to 105° longitudes W. of Greenwich. Includes Mexico, Guatemala, Honduras, and Nicaragua. Site of proposed line of communication between Vera Cruz on the Gulf of Mexico and the Gulf of Tehuantepec on the Pacific Coast. Outl. Com., pol. 36.5 x 40.9.

53. AYUTLA, GUATEMALA, TO RIO SAVEGRE, COSTA RICA, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. Profile II. Elevation of surveys on line of proposed Intercontinental Railway; existing and projected railways from Ayutla, Guatemala to Rio Savegre, Costa Rica. Pro. Com., phy., pol. Hor. 1: 2534400, ver. 1: 72000. Elevations in feet. 26.5 x 35.8.

Intercontinental railway commission, 1895-98, v. 1, back.

54. SKETCH MAP SHOWING ROUTES THROUGH BRITISH HONDURAS, GUATEMALA, SALVADOR, AND HONDURAS. Traveler's routes. Com., pol. Col. 11.9 x 16.5.

Dun, 1920, p. 9.

55. CAPE GRACIAS A DIOS TO GULF OF DARIEN, U. S. Hydrographic Office, Washington, 1885. Compiled from British Surveys. No. 945, 52d ed., VIII'15. Extensive corrections Nov. 1900, Sep. 1905, May 1911. 08°40' to 15° latitudes N. and 77°30' to 85° longitudes W. of Greenwich. East coast of Nicaragua, Costa Rica, and Panama. Capes, harbors, islands. navigation lights, proposed route of Panama Canal, railways, rivers, and streams. Com., hydro., phy. Soundings in fathoms, elevations in feet.

56. WESTERN SHORE OF THE CARIBBEAN SEA FROM SERRANA BANK TO CHINCHORRO BANK, U. S. Hydrographic Office, Washington, 1884. No. 394, 65th ed., June, 1925. 13°45' to 19° latitudes N. and 80° to 89°20' longitudes W. of Greenwich. Currents, islands, navigation lights, types of bottom. Hydro., phy., pol. Col. 1: 917,762. Soundings in fathoms, elevations in feet. 65.4 x 109.2.

57. CENTRAL AMERICA, Ordnance Survey Office, G. Philip and Son, London, 1908. National and provincial capitals, railways in operation and under construction, proposed line of Intercontinental railway, roads, telegraph offices, harbors, limits of canoe and steam navigation. Boundaries determined by treaty of: Guatemala and Mexico; Guatemala and British Honduras; Nicaragua and Costa Rica; Costa Rica and Panama. Com., phy., pol. Col. 1: 1,705,000. 67 x 66.3.

58. CENTRAL AMERICA, ca. 1887. 08° to 19° latitudes N. and 82° to 94° longitudes W. of Greenwich. National capitals, principal cities and towns, physical features, railways. Com., phy., pol. 18.2 x 18.5. Brigham, 1887, f.p. 6.

59. CENTRAL AMERICA, The Matthews-Northrup Co., Buffalo. From The Century Atlas, The Century Co., New York, ©1897. 08° to 18° latitudes N. and 80° to 95° longitudes W. of Greenwich. Capitals, cities and towns (population indicated), canals under construction, highways, islands, mountains (elevations given in English feet), railways in operation and proposed, rivers, steamer routes to and from principal ports, submarine telegraph cables, volcanoes active during nineteenth century. Com., phy., pol., seismo. Col., mntd. 1 1/2 in. = 100 mi. 39 x 26.6. Inset: The Country Around Lake Nicaragua, Showing the Route of the Nicaragua Canal, now under construction. 10°35' to 12°25' latitudes N. and 83°50' to 86°45' longitudes W. of Greenwich. 10.2 x 17.5.

60. CENTRAL AMERICA, Emery Walker, Sc. 08° to 18° latitudes N. and 83° to 92° longitudes W. of Greenwich. Capitals, cities and towns, canals, mountains, railways of British Honduras, Costa Rica, El Salvador, Guatemala, Honduras, and Nicaragua. Com., phy., pol. Col. 1 in. = 100 mi. 25.6 x 18.8. Inset on same scale: Panama. 07° to 10° latitudes N. and 77° to 84° longitudes W. of Greenwich. 7 x 13.6.  
Central America, 1910-11, f.p. 674.

61. MAP OF CENTRAL AMERICA, L. D. Williams, J. Bien, Lith., New York, 1856. Compiled from materials furnished by the Committee on Foreign Relations of the Senate of the United States. Executed at the Office of the U. S. Coast Survey, A. D. Bache, Superintendent, under special direction of Captain W. R. Palmer. 07° to 30° latitudes N. and 75° to 99° longitudes W. of Greenwich. Includes Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mosquito Coast, and Nicaragua. Historical notes on boundaries are given, tracing their origin from early settlements and treaties. Projected railways on Isthmus of Tehuantepec and in Honduras. Com., hist., phy., pol. Col. 1: 2,500,000. 109.3 x 105. Insets: 1. Bay of Fonseca. 1 in. = 6 mi. 16.8 x 18. 2. Nicaragua from San Juan to Fonseca Bay. 2 1/2 in. = 40 mi. 15.6 x 49.5. 3. Port of San Juan de Nicaragua or Grey Town. 3/4 in. = 1 mi. 12.2 x 11.1.

62. A MAP OF CENTRAL AMERICA, A. H. Bumstead, ca. 1919. 08° to 18° latitudes N. and 79° to 95° longitudes W. of Greenwich. Distribution of volcanoes that have caused loss of life and property damage. Outl. Pol., seismo. 1 1/2 in. = 200 mi. 13.2 x 20.3.  
Spinden, 1919, p. 194.

63. SKETCH MAP OF CENTRAL AMERICA. 08° to 18° latitudes N. and 75° to 93° longitudes W. of Greenwich. Capitals, cities and towns, route followed by G. P. Putnam in his travels. Com., phy., pol. 2 1/4 in. = 300 mi. 16.4 x 23.  
Putnam, 1913, back.

64. CENTRAL AMERICA, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE EXISTING AND PROJECTED RAILROADS, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. 09° to 16° latitudes N. and 83° to 93° longitudes W. of Greenwich. Completed and projected survey lines of Intercontinental Railway and extensions through Costa Rica, El Salvador, Guatemala, Honduras, and

Nicaragua. Com., phy., pol. Col. 1: 1,800,000. 43.6 x 60.9.  
Intercontinental railway commission, 1895-98, v. 1, back.

65. MAP OF CENTRAL AMERICA, SHEWING ITS POLITICAL DIVISIONS AND INTEROCEANIC COMMUNICATIONS PROJECTED AND IN PROGRESS. 1871, Trübner and Co., London, 1870. 07° to 22° latitudes N. and 78° to 95° longitudes W. of Greenwich. Honduras Interoceanic Railway as a connecting link between Atlantic and Pacific steamer routes. Com., phy., pol. Col. 21.5 x 25.2. Inset: United States and Central America, illustrating lines of communications between Atlantic and Pacific seaboard via Honduras. 05° to 50° latitudes N. and 60° to 120° longitudes W. of Greenwich. 8.9 x 8.5.  
Squier, 1870, front.

66. MAP OF CENTRAL AMERICA SHOWING ITS POLITICAL DIVISIONS, PRINCIPAL TOWNS AND LEADING GEOGRAPHICAL AND TOPOGRAPHICAL FEATURES, Sarony, Major and Knapp, Lith., New York, 1858. 07° to 22° latitudes N. and 78° to 96° longitudes W. of Greenwich. Cities and towns; projected canal from Chinendega on west coast to Lake Managua, Nicaragua; railways; ruins. Arch., com., phy., pol. 1: 8,000,000. 21.9 x 25.9. Inset: United States and Central America, showing communications between Atlantic and Pacific seaboard via Isthmus of Panama and Tehuantepec and Honduras Interoceanic Railway. 05° to 50° latitudes N. and 60° to 120° longitudes W. of Greenwich. 9 x 8.2.  
Squier, 1858, front.

67. COMMERCIAL TRAVELER'S ROUTE, CENTRAL AMERICA, Hector Lazo, ca. 1925. Commercial traveler's routes in British Honduras, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama. Outl. Com. pol. Mim. 20.5 x 31.7.  
Lazo, 1925, p. 4.

68. CENTRAL AMERICA SHOWING ROUTE OF PROPOSED PAN AMERICAN RAILROAD, Department of Commerce, Transportation Division, 1925. 05° to 17° latitudes N. and 77° to 93° longitudes W. of Greenwich. Route of constructed and proposed Pan American Railway from Ayutla, Guatemala through Panama City, Panama, via El Salvador, Honduras, Nicaragua, Costa Rica, and Panama. Com., pol. 3/4 in. = 200 mi. 8 x 10.4.  
Long, 1925, p. 155.

69. INTERNATIONAL RAILWAYS OF CENTRAL AMERICA, J. Barrasa L., 1915. Exhibit "A". 12°30' to 16° latitudes N. and 82°30' to 92°15' longitudes W. of Greenwich. Cities and towns; copper, gold and silver deposits; International Railways of Central America in operation and projected. Com., econ., pol. Sha. 46.5 x 115. 3 insets: 1. Department of Peten, Guatemala. Outl. 1: 4,000,000. 4.2 x 5.5. 2. Profile from Ayutla Mexican Frontier to Puerto Barrios. Com., phy., pol. 6.9 x 64.3. 3. Profile from Zacapa, Guatemala to Cutuco, La Union Harbor. Com., phy., pol. 6.9 x 46.1.

70. MAP OF REPUBLIC OF CENTRAL AMERICA, S. Straker, Lith., London, ca. 1840. 05° to 30° latitudes N. and 73° to 103° longitudes W. of Greenwich. Territory of Vera Paz and the British settlements in British Honduras for the purpose of colonization by the Compagnie Com-

merciale et Agricole des cotes Orientales de l' Amerique Centrale. Outl. Land tenure. 20.4 x 36.4.

Memoire contenant un apercu statistique de l' etat de Guatemala..., 1840, f.p. 4.

71. MAP OF JOURNEY IN CENTRAL AMERICA, CHIAPAS AND YUCATAN, ca. 1841. 08° to 22° latitudes N. and 83° to 94° longitudes W. of Greenwich. Route traveled by John L. Stephens in Costa Rica, Honduras, Mexico, and Salvador. Com., phy., pol. 27.9 x 21.9.

Stephens, 1841, v. 1, f.p. 1.

72. CENTRAL AMERICA AND ISLANDS OF THE CARIBBEAN, Department of Commerce, ca. 1925. 07° to 30° latitudes N. and 60° to 93° longitudes W. of Greenwich. Geographical relationship of the countries of Central America, Greater and Lesser Antilles, and Bahama Islands. Outl. Pol. 1 1/2 in. = 300 mi. 18.9 x 23.

Long, 1925, f.p. 1.

73. AN OUTLINE MAP OF CENTRAL AMERICA AND SOUTHERN MEXICO, James M. Darley, ca. 1925. 13° to 23° latitudes N. and 83° to 99° longitudes W. of Greenwich. Region occupied by the Mayan civilization during the first fifteen centuries A. D., in territory now comprising southern Mexico, northern Guatemala, and northeastern Honduras. Extension of Mayan civilization to Yucatan and northwestern Honduras about 500-700 A. D. Ethnog., hist., pol. 1 5/16 in. = 300 mi. 9.2 x 13.1.

Morley, 1925, p. 64.

74. CENTRAL AMERICA, INCLUDING YUCATAN, BELIZE, GUATEMALA, SALVADOR, HONDURAS, NICARAGUA, AND THE SOUTHERN STATES OF MEXICO, J. and C. Walker, Sc., Chapman and Hall, London, 1842. Published under the superintendence of the Society for Diffusion of Useful Knowledge. 08° to 27° latitudes N. and 81° to 107° longitudes W. of Greenwich. Bays, capes, islands, lakes, mountain ranges, rivers, streams, volcanoes; cities, estates, farms, forts, towns and villages. Com., phy., pol. Sha. 4 7/8 in. = 550 mi. Elevations above sea level in yards. 31 x 39.5.

75. CENTRAL AMERICAN VOLCANOES. 08° to 16° latitudes N. and 82° to 94° longitudes W. of Greenwich. Distribution of volcanoes in Central America. Outl. Seismo. 16.3 x 20.1.

Brigham, 1887, f.p. 377.

76. CENTRAL AMERICA, WEST. North C-D, 15-16. Preliminary edition, subject to correction. 08° to 16° latitudes N. and 84° to 96° longitudes W. of Greenwich. Principal cities and towns, railways and roads of southern Mexico, Guatemala, Honduras, El Salvador, Nicaragua, and Costa Rica. Com., pol. 46.5 x 67.5.

77. THE COUNTRIES OF THE CARIBBEAN, INCLUDING MEXICO, CENTRAL AMERICA, THE WEST INDIES AND THE PANAMA CANAL, Redfield, Kendrick, Odell Co., ca. 1922. Prepared especially for the Geographic Magazine. 05° to 34° latitudes N. and 60° to 115° longitudes W. of Greenwich. Capitals, cities and towns; heads of navigation; highways; railways in operation and under construction; steamer routes; telegraph stations; U. S. Consular agencies and offices. Approximate land elevations and

ocean depth. Com., hydro., phy., pol. Col., mntd. 1: 5,500,000. 59.7 x 107.4. 3 insets: 1. Guantanamo Bay, Cuba, United States Naval Base. 19°50' to 20°10' latitudes N. and 74°50' to 75°25' longitudes W. of Greenwich. 1 11/16 in. = 10 mi. 10.4 x 17.8. 2. The Panama Canal and the Canal Zone. 08°30' to 09°30' latitudes N. and 79°20' to 80°10' longitudes W. of Greenwich. 1 13/16 in. = 15 mi. 22.2 x 16.7. 3. Porto Rico and the Virgin Islands. 17°50' to 18°35' latitudes N. and 64°50' to 67°30' longitudes W. of Greenwich. 2 11/16 in. = 50 mi. 12 x 27.

78. BAY OF FONSECA, PROPOSED SOUTHERN OR PACIFIC TERMINUS OF THE HONDURAS INTEROCEANIC RAILWAY W. N. Jeffers, 1857. 13° to 13°20' latitudes N. and 87°20' to 87°40' longitudes W. of Greenwich. El Salvador, Honduras, and Nicaragua, showing the proposed southern or Pacific terminus of the Honduras Interoceanic Railway on the Bay of Fonseca; two discretionary lines, to Garova and to Sacate Grande islands. Capes, islands, rivers, roads, volcanoes. Com., hydro., phy., pol. 3 1/4 in. = 10 nau. mi. Soundings in fathoms. 30 x 38.6.  
Squier, 1858, f.p. 78.

79. BAY OF FONSECA, PROPOSED SOUTHERN OR PACIFIC TERMINUS OF THE HONDURAS INTEROCEANIC RAILWAY. Surveyed by Capt. Sir Edward Belcher, C. B., 1838. 13°20' latitudes N. and 87°20' to 87°40' longitudes W. of Greenwich. El Salvador, Honduras, and Nicaragua, showing the proposed southern or Pacific terminus of the Honduras Interoceanic Railway on the Bay of Fonseca; two discretionary lines, to Garova and to Sacate Grande islands. Capes, islands, rivers, roads, volcanoes. Com., hydro., phy., pol. Sha. 3 1/2 in. = 10 nau. mi. Soundings in fathoms. 29.7 x 38.3.  
Squier, 1854, f.p. 19.

80. GUATEMALA AND BRITISH HONDURAS, REGIONS WITHIN WHICH CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE PRODUCTION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division, 1926. No. 2388 14° to 18°30' latitudes N. and 88° to 92°15' longitudes W. of Greenwich. Area with climatic conditions favoring the cultivation of Hevea rubber; settled and unsettled boundaries; railways. Com., econ., pol. 1 in. = 50 mi. 17.5 x 17.5.  
Treadwell, 1926, f.p. 101.

81. GULF OF HONDURAS AND APPROACHES, U. S. Hydrographic Office, Washington, 1889. No. 1120, 28th ed., June 1923. 15°30' to 17°30' latitudes N. and 87°25' to 89° longitudes W. of Greenwich. East Coast of Central America. Bays, beacons, buoys, currents, navigation lights, tides, types of bottoms. Com., hydro., phy. Sounding in fathoms, elevations in feet. 79.8 x 62.

82. GULF OF HONDURAS WITH THE ZAPOTILLOS CAYS, U. S. Hydrographic Office, Washington, 1896. From British Surveys between 1835 and 1841. The Bay of Honduras and Port Cortes are from surveys by the officers of the U. S. S. Dolphin in 1896. 15°40' to 16°20' latitudes N. and 87°52' to 89°04' longitudes W. of Greenwich. Cays, currents, navigation lights, types of bottom. Hydro., phy., pol. Soundings in fathoms, elevations in feet. 65 x 108.5.



83. MAP OF HONDURAS AND SAN SALVADOR, CENTRAL AMERICA SHOWING THE LINE OF THE PROPOSED INTEROCEANIC RAILWAY BY E. G. SQUIER, D. C. Hitchcock, J. Schedler, Engr., Sarony and Co., Lith., New York, 1856. From reconnaissance survey of the Honduras Interoceanic Railway by W. N. Jeffers, W. S. Woodhouse, E. G. Squier, and D. C. Hitchcock. 11°50' to 17° latitudes N. and 82°20' to 90°15' longitudes W. of Greenwich. Honduras, northern Nicaragua, and San Salvador; departmental and international capitals, distribution of Indian tribes, mines, paths and roads, proposed route of Honduras Interoceanic Railway from Port Caballos, Atlantic coast of Honduras to the Bay of Fonseca on Pacific, ruins, towns and villages. Arch., com., econ., ethnog., phy., pol. Mntd., sha. 52.9 x 78.8.

84. MAP OF HONDURAS AND SAN SALVADOR, CENTRAL AMERICA SHOWING THE LINE OF THE PROPOSED HONDURAS INTEROCEANIC RAILWAY BY E. G. SQUIER, D. C. Hitchcock, Sarony, Major and Knapp, Lith., New York, 1858. 12° to 16° latitudes N. and 83° to 90° longitudes W. of Greenwich. Honduras, northern Nicaragua, and San Salvador; departmental and national capitals, distribution of Indian tribes, gold bearing districts of Honduras, mines, paths and roads, proposed route of Honduras Interoceanic Railway from Port Caballos, Atlantic Coast of Honduras to the Bay of Fonseca on Pacific, ruins, steamer routes, towns and villages. Arch., com., econ., ethnog., phy., pol. Sha. 53.9 x 79.  
Squier, 1858, f.p. 758.

85. [INTERCONTINENTAL RAILWAY SURVEY], Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1891-93. Principal line of survey of Corps No. 1. 31 maps and 1 profile sheet. Proposed location of Intercontinental Railway, railways in operation. Primary and secondary cart roads, topography of the country covered by sections. Each map bears an inset profile of elevation of existing railways and of line of survey of proposed Intercontinental Railway. No. XIX accompanied by profile on separate sheet. Com., phy., pol. Col. Unless otherwise stated, scale is 1:48,000. I. Ayutla to Retalhuleu, Guatemala. 14°29' to 14°44' latitudes N. and 91°40' to 92°10' W. of Greenwich. 58 x 113. II. Retalhuleu to Rio Bravo, Guatemala. 14°22' to 14°34' latitudes N. and 91°19' to 91°41' longitudes W. of Greenwich. 50 x 86. III. Rio Bravo to Rio Aguna, Guatemala. 14°13' to 14°32' latitudes N. and 91°06' to 91°19' longitudes W. of Greenwich. 69 x 51.3. IV. Rio Aguna to Brito, Guatemala. 14°06' to 14°25' latitudes N. and 90°40' to 91°06' longitudes W. of Greenwich. 53 x 81.8. V. Brito to Rio Esclavos, Guatemala. 13°57' to 14°09' latitudes N. and 90°15' to 90°40' longitudes W. of Greenwich. 31.5 x 96. VI. Rio Esclavos to Rio Paz, Guatemala. 13°50' to 14°04' latitudes N. and 89°54' to 90°20' longitudes W. of Greenwich. 54 x 97.6. VII. Rio Paz to Sonsonate, Salvador. 13°35' to 13°55' latitudes N. and 89°44' to 90°01' longitudes W. of Greenwich. 54.2 x 115. VIII. Rio Paz to Santa Ana, Salvador. 13°52' to 14°04' latitudes N. and 89°30' to 89°56' longitudes W. of Greenwich. 97.4 x 48.8. IX. Santa Ana to Ateos, Salvador. 13°44' to 14° latitudes N. and 89°20' to 89°36' longitudes W. of Greenwich. 27 x 86.5. X. Sitio del Nino to Ilopango, Salvador. 13°38' to 13°52' latitudes N. and 89°04' to 89°25' longitudes W. of Greenwich. 56.1 x 72.1. XI. Ilopango to San Vicente, Salvador. 13°35' to 13°45' latitudes N. and 88°46' to 89°07' longitudes W. of Greenwich. 49.5 x 82. XII. San

Vicente to Jiquilisco, Salvador. 13°18' to 13°40' latitudes N. and 88°33' to 88°50' longitudes W. of Greenwich. 35.5 x 97.8. XIII. Jiquilisco to Jocotal, Salvador. 13°15' to 13°20' latitudes N. and 88°15' to 88°35' longitudes W. of Greenwich. 30.5 x 79.5. XIV. Jocotal to Jocoro, Salvador. 13°20' to 13°37' latitudes N. and 88° to 88°20' longitudes W. of Greenwich. 38 x 83. XV. Jocoro, Salvador, to La Brea, Honduras. 13°25' to 13°40' latitudes N. and 87°33' to 88°04' longitudes W. of Greenwich. 34 x 121.5. XVI. La Brea to Los Prados, Honduras. 13°08' to 13°32' latitudes N. and 87°08' to 87°40' longitudes W. of Greenwich. 44.8 x 129.8. XVII. Los Prados, Honduras to La Virgen, Nicaragua. 12°47' to 13°15' latitudes N. and 86°50' to 87°12' longitudes W. of Greenwich. 44.5 x 110.5. XVIII. La Virgen to Corinto, Nicaragua. 12°25' to 12°50' latitudes N. and 87° to 87°14' longitudes W. of Greenwich. 52.6 x 96. XIX. Corinto to Granada, Nicaragua. 11°30' to 13°10' latitudes N. and 85°50' to 87°20' longitudes W. of Greenwich. 55 x 105. XIXa. Profile of map, Corinto to Granada, Nicaragua. Hor. 1: 48,000, ver. 1: 4,800. 28 x 167.2. XX. Granada to Station 180, Nicaragua. 11°36' to 12° latitudes N. and 85°55' to 86°55' to 86°04' longitudes W. of Greenwich. 49.3 x 100. XXI. Station 180 to Station 540, Nicaragua. 11°15' to 11°37' latitudes N. and 85°42' to 85°58' longitudes W. of Greenwich. 28.1 x 100.5. XXII. Station 540, Nicaragua to Santa Rosa, Costa Rica. 10°49' to 11°18' latitudes N. and 85°33' to 85°42' longitudes W. of Greenwich. 36.2 x 112. XXIII. Santa Rosa to Liberia, Costa Rica. 10°38' to 10°51' latitudes N. and 85°25' to 85°37' longitudes W. of Greenwich. 28.5 x 69. XXIV. Liberia to El Reventado, Costa Rica. 10°15' to 10°40' latitudes N. and 85°04' to 85°30' longitudes W. of Greenwich. 23 x 129.5. XXV. El Reventado to Cumbre Salina, Costa Rica. 09°50' to 10°20' latitudes N. and 84°38' to 85°10' longitudes W. of Greenwich. 46 x 131.3. XXVI. Cumbre Salina to Cumbre Herradura, Costa Rica. 09°40' to 10°02' latitudes N. and 84°28' to 84°41' longitudes W. of Greenwich. 52.3 x 84. XXVII. Cumbre Herradura to Río Pirris, Costa Rica. 09°28' to 09°41' latitudes N. and 84°17' to 84°43' longitudes W. of Greenwich. 26.8 x 87. XXVIII. Río Pirris to Boca Savegre, Costa Rica. 09°20' to 09°30' latitudes N. and 84° to 84°20' longitudes W. of Greenwich. 26.6 x 91.4.

Altos Line: I. Amatenango, Mexico to San Sebastián, Guatemala. 15°19' to 15°30' latitudes N. and 91°33' to 92°10' longitudes W. of Greenwich. 1: 96,000. 23.6 x 72. II. Santa Bárbara to San Marcos, Guatemala. 14°47' to 15°19' latitudes N. and 91°36' to 91°49' longitudes W. of Greenwich. 1: 96,000. 61.6 x 27.7. III. Huehuetenango to Quezaltenango, Guatemala. 14°45' to 15°23' latitudes N. and 91°23' to 91°36' longitudes W. of Greenwich. 1: 96,000. 72.7 x 24.3.

Intercontinental railway commission, 1895-98, portfolio 1.

86. [JALAPA TO LOS AMATES]. Railways between Jalapa, Chiquimula, Zacapa, Sta. Madalena, Los Amates, Guatemala; Ipala to Chiquimula, Guatemala by way of Copan, Honduras; ruins. Arch., com., phy., pol. Pho. 1: 1 000 000. 7.6 x 10.8.

Seler-Sachs, 1900, p. 320.

87. DAS KARAIBISCHE MEER UND SEIN UMRANDUNG, ca. 1914. 05° to 25° latitudes N. and 60° to 90° longitudes W. of Greenwich. Caribbean Sea and surroundings. Distribution of active and extinct volcanoes in Central America. Com., hydro., seismo. Col. 1: 15 000 000. Soundings

in meters. 13.3 x 21.4.

Sievers, 1914, p. 450.

88. MAP SHOWING ENTRADAS TO LAKE PETEN. 15° to 22° latitudes N. and 87° to 93° longitudes W. of Greenwich. Guatemala and Yucatan. Map is designed to show the entrances of: Cortez, 1524-1525; Fuensalida and Orbita, 1618; Gallegos and Delgado, 1675; President Barrios, 1694-1695; Padre Cano, 1695; Padre Andres de Avendaño y Loyola, 1695, 1696. Distribution of Indian tribes. Com., ethnog., hist., phy. Sha. 22 x 19.1. Means, 1917, back.

89. MAP OF THE MAYA REGION. British Honduras, northern Guatemala, and Yucatan, Mexico. Course of the day-by-day flights of Colonel Lindburgh's party and the location of ruins observed and photographed. Arch., com., pol. 9/16 in. = 100 mi. 12.9 x 10.1. Kidder, 1930, p. 194.

90. MAYA TERRITORY, SHOWING LOCATIONS OF PRINCIPAL CITIES. Courtesy of the Bureau of American Ethnology, Smithsonian Institution, Washington, ca. 1923. Location of principal Mayan cities in Guatemala, Honduras, and southeastern Mexico. Ethnog., pol. 19.2 x 13. Gregory, 1923, f.p. 44.

91. LINGUISTIC MAP OF MAYA TRIBES, ca. 1914. Distribution of the Nahuatl, Maya, and Zoquean tribes in British Honduras, Guatemala, Honduras, and the States of Campeche, Chiapas, Tabasco, and Yucatan in Mexico. Seven dialects are spoken. Ethnog., pol. 8.2 x 9.4. Joyce, 1914, p. 201.

92. THE MAYA WORLD IN THE OLD EMPIRE -- END OF THE ARCHAIC PERIOD, 9.10.0.0.0, APPROXIMATELY 360 A. D., ca. 1917. Location of archaic sites: Copan, El Pabellon, Graciosa, Naranjo, Piedras Negras, and Tikal. Copan and Tikal being the largest and most important of the Old Empire. Arch., ethnog., phy. 14.6 x 12.7. Morley, 1917, p. 195.

93. THE MAYA WORLD IN THE OLD EMPIRE--END OF THE MIDDLE PERIOD, 9.15.0.0.0, APPROXIMATELY 460 A. D., ca. 1917. Location of new sites: Altar Sacrificios, Bakhallal, Itsimte, Palenque, Quirigua, Tzendales, Yaxchilan, and Yaxha. Archaic sites which carried over: Copan, Naranjo, Piedras Negras, and Tikal. Abandoned sites: El Pabellon and Graciosa. Arch., ethnog., phy. 14.6 x 12.7. Morley, 1917, p. 197.

94. THE MAYA WORLD IN THE OLD EMPIRE--HEIGHT OF GREAT PERIOD, 9.18.0.0.0, APPROXIMATELY 520 A. D., ca. 1917. Location of new sites: Aguas Calientes, Cancuen, Chichen Itza, El Cayo, Ixkum, La Honradez, La Mar, Nakum, and Seibal. Old sites of the archaic and middle periods; abandoned sites. Arch., ethnog., phy. 14.6 x 12.7. Morley, 1917, p. 199.

95. THE MAYA WORLD IN THE OLD EMPIRE--TOWARD THE END OF THE GREAT PERIOD, 10.1.0.0.0, APPROXIMATELY 580 A. D., ca. 1917. Location of new, old, and abandoned sites of Maya cities at the end of the Old Empire.

Arch., ethnog., phy. 14.6 x 12.7.  
Morley, 1917, p. 200.

96. THE MAYA WORLD IN THE NEW EMPIRE--END OF THE COLONIZATION PERIOD, 10.2.10.0.0, OR KATUN 3 AHAU, APPROXIMATELY 610 A. D., ca. 1917. Location of new site: Quen Santo; old site: Chichen Itza; abandoned site: Bakhalal. Arch., ethnog., phy. 14.6 x 12.7.  
Morley, 1917, p. 203.

97. THE MAYA WORLD IN THE NEW EMPIRE--END OF TRANSITIONAL PERIOD, KATUN 8 AHAU, APPROXIMATELY 940 A. D., ca. 1917. New sites: Chakan Putan, Nohcacab, Porvenir, Ramonal, and Rio Beque; abandoned site: Chichen Itza. Arch., ethnog., phy. 14.6 x 12.7.  
Morley, 1917, p. 204.

98. THE MAYA WORLD IN THE NEW EMPIRE--END OF RENAISSANCE PERIOD, KATUN 8 AHAU, APPROXIMATELY 1190 A. D., ca. 1917. Location of new sites: Ake, Chacmultun, Dsibilnocac, Dsilbiltun, Elemax, Hochob, Holactun, Ichcansihoo, Izamal, Kabah, Kewik, Labna, Mayapan, Santa Rosa Xlapak, Sayil, Tuluuum, Uxmal, Xul, and the resettlement of Chichen Itza. Old site: Chaken Putun. Abandoned sites: Bakhalal, Nohcacab, Porvenir, Quen Santo, Ramonal, and Rio Beque. Arch., ethnog., phy. 14.6 x 12.7.  
Morley, 1917, p. 205.

99. THE MAYA WORLD IN THE NEW EMPIRE--JUST AFTER END OF THE TOLTEC PERIOD, KATUN 8 AHAU, APPROXIMATELY 1460 A. D., ca. 1917. New sites: Corozal, Flores, Mani, and Sotuta; old sites still occupied: Ichcansihoo, Izamal, Holactun, and Kabah; abandoned sites. Arch., ethnog., phy. 14.6 x 12.7.  
Morley, 1917, p. 206.

100. MAPA DE LA DISTRIBUCION GEOGRAFICA DEL MEGASOMA ELEPHAS GEMM, Moises Herrera, ca. 1922. Distribution of above insect ( a type of beetle) in Mexico and Central America; area where it has been found and identified, and doubt-areas. Outl. Biol. Col. 21.4 x 19.5.  
Herrera, 1922, fig. 9, back.

101. MEXICO AND CENTRAL AMERICA, ca. 1914. 12° to 23° latitudes N. and 87° to 107° longitudes W. of Greenwich. Cities and towns of British Honduras, Guatemala, Honduras, Mexico and Salvador. Phy., pol. 5/8 in. = 100 mi. 19.1 x 31.5.  
Joyce, 1914, f.p. 384.

102. MAP OF MEXICO AND CENTRAL AMERICA SHOWING THE PRINCIPAL ARCHAEOLOGICAL SITES WITH A DETAIL INSET OF THE VALLEY OF MEXICO. Principal archaeological sites of Guatemala, Honduras, and Mexico. Outl. Arch. 15.9 x 20.9. -Inset of the Valley of Mexico. 5.7 x 3.9.  
Spinden, 1922, f.p. 42.

103. ROUTE THROUGH MEXICO, GUATEMALA & S. SALVADOR BY G. F. V. TEMPSKY, Edward Weller, Longman and Co., London, ca. 1858. 12° to 35° latitudes N. and 85° to 118° longitudes W. of Greenwich. Route of travel by G. F. U. Tempsky through Mexico, Guatemala, and S. Salvador. Com., phy., pol. Col., sha. 3 in. = 400 mi. 28.6 x 33.6.

Tempsky, 1858, f.p. 436.

104. MAP OF SOUTHERN MEXICO AND CENTRAL AMERICA, SHOWING THE PRINCIPAL MAYA SITES, ca. 1923. Principal Maya sites in Guatemala, Honduras, and southern Mexico of: The Old Empire, Archaic, Middle and Great periods; the New Empire, Early, Middle and Late periods. Arch., ethnog. 14.5 x 11.9.

Joyce, 1923, back.

105. MAP OF SOUTHERN MEXICO AND CENTRAL AMERICA. Courtesy of the Carnegie Institution of Washington. Region of the Maya civilization in Guatemala, Honduras, and southern Mexico. Arch., ethnog. 9.5 x 11.1. Morley, 1927, p. 109.

106. SKETCH MAP SHOWING ROUTES THROUGH NICARAGUA, COSTA RICA AND PANAMA. Travelers' routes. Com., pol. Col. 11.9 x 16.5. Dun, 1920, p. 15.

107. THE TERRITORY OF VERAPAS, Alfred Adlard, London, 1840. Compiled and corrected from the latest authorities and original surveys never before published. 14° to 20° latitudes N. and 86°10' to 93°45' longitudes W. of Greenwich. Territory conceded by the Federal Government of Central America to the Directors of the British Company of Agriculture, Commerce and Colonization, with part of the surrounding country. Roads, ruins, towns, and villages. Arch., phy., pol., land tenure. Col., mtd. 46.6 x 59.9.

108. WEST INDIES AND CENTRAL AMERICA, Stanford's Geographical Establishment, London, 1885. 08° to 32° latitudes N. and 60° to 92° longitudes W. of Greenwich. Principal cities, railways and steamer routes, submarine telegraph cables. Com., phy., pol. Col. 1 5/8 in. = 300 mi. 25 x 32.

Bates, 1885, f.p. 141.

109. TEKTONISCHE KARTE VON ZENTRAL AMERIKA. After C. Sapper. 07° to 22° latitudes N. and 79° to 94° longitudes W. of Greenwich. Hurricane chart of Central America; distribution of active and extinct volcanoes on Pacific coast. Outl. Meteor., seismo. 1: 13,000,000. 13.9 x 13.

Sievers, 1914, p. 490.

## 2. British Honduras

110. COLONY OF BRITISH HONDURAS, Waterlow and Sons Ltd., Dunstable and Watford, London. Compiled from the records in the Survey Department, 1909; additions 1921. 15°40' to 18°50' latitudes N. and 87°10' to 89°10' longitudes W. of Greenwich. Lighthouses, police stations, principal towns, railways, roads, and telegraph lines. Com., phy., pol. Col. 1 5/8 in. = 30 mi. 30.5 x 19.1.

Metzgen and Cain, 1925, front.

111. COLONY OF BRITISH HONDURAS, Waterlow and Sons Ltd., Dunstable and Watford, London. Compiled from records in the Survey Department, 1909; additions 1921. 15°40' to 18°50' latitudes N. and the 87°10' to

89°10' longitudes W. of Greenwich. Lighthouses, police stations, principal towns, railways in operation, roads, telegraph lines. Com., phy., pol. Col. 1 5/8 in. = 30 mi. 30.5 x 19.1.  
Hummel, 1925, f.p. 122.

112. COLONY OF BRITISH HONDURAS, Harrison and Son, Lith., London, ca. 1883. 15°40' to 18°50' latitudes N. and 87°10' to 89°10' longitudes W. of Greenwich. Cities and towns; physical features; route taken by D. Morris in his travels on the coast, and to the source of the Belize River. Com., phy., pol. Col. 18.5 x 11.7.  
Morris, 1883, front.

113. MAP OF BRITISH HONDURAS, E. Lassen, Ordnance Survey Office, Southampton, 1921. 15°42' to 18°55' latitudes N. and 87°14' to 89°19' longitudes W. of Greenwich. Canals, lighthouse, light on mast-heads, railways, roads, telegraph lines. Com., phy., pol. Col., mtd., sha. 1: 380,160. Elevations in feet. 97.5 x 61.2.

114. MAP OF BRITISH HONDURAS, compiled by G. A. Elliott, Ordnance Survey, 1927. 16° to 18°30' latitudes N. and 87°30' to 89°15' longitudes W. of Greenwich. Lighthouses, railways, telegraph lines, principal trails, principal towns, and towns with police stations. Com., pol. 2 in. = 30 mi. 30.5 x 19.4. Inset: Central America showing relative position of British Honduras. 10° to 30° latitudes N. and 80° to 100° longitudes W. of Greenwich. 5.3 x 5.3.  
Burdon, 1927, f.p. 5.

115. RAILROAD MAP OF BRITISH HONDURAS, Department of Commerce, Transportation Division, ca. 1925. 16° to 19° latitudes N. and 87° to 89°15' longitudes W. of Greenwich. Routes of following railways in British Honduras: Belise Estate and Produce Railroad; British Honduras Syndicate Tramway; Stann Creek Railway; Victoria Falls Lumber Co. Railroad, proposed railway Belise to Peten. Outl. Com., pol. 13/16 in. = 30 mi. 15.9 x 10.1.  
Long, 1925, p. 30.

116. PART OF LUBAANTUN, G. A. Elliott, ca. 1925. Relative position of Amphitheatre and ruins of other buildings of Mayan city of Lubaantun, British Honduras. Plan. Arch. 15.5 x 9.5.  
Cann, 1925, f.p. 216.

### 3. Costa Rica

117. SKETCH MAP OF BOGA DEL PORTALON TO DAVID, A. Hoen and Co., Lith., Baltimore, 1893. Route of proposed Intercontinental Railway. Com., phy. Col. 1 1/4 in. = 10 mi. 14.3 x 56.7.  
Intercontinental railway commission, v. 2. f.p. 92.

118. COSTA RICA, REGIONS WITHIN WHICH CLIMATIC CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE CULTIVATION OF HEVEA RUBBER, Department of Commerce, Drafting Division, 1926. No. 2356. 08° to 11°45' latitudes N. and 82°30' to 86° longitudes W. of Greenwich. Railways, regions suitable for cultivation of Hevea rubber. Outl. Com., econ., pol. Sha. 1/2 in. = 25 mi. 12.6 x 10.7.

Treadwell, 1926, p. 66.

119. RAILROAD MAP OF COSTA RICA, Department of Commerce, Transportation Division, 1925.  $08^{\circ}$  to  $11^{\circ}15'$  latitudes N. and  $82^{\circ}30'$  to  $86^{\circ}$  longitudes W. of Greenwich. Railways of Costa Rica: Northern Railway, Changuinola Railway, Pacific Railroad, Northern Railroad, Guanacaste Concession. Outl. Com., pol.  $3/4$  in. = 25 mi. 19 x 20.

Long, 1925, f.p. 98.

120. GENERAL SOIL REGIONS OF EASTERN AND NORTHERN COSTA RICA, ca. 1926. Base from Pittier's map of Costa Rica. Soils by H. H. Bennett.  $08^{\circ}$  to  $11^{\circ}15'$  latitudes N. and  $82^{\circ}30'$  to  $86^{\circ}$  longitudes W. of Greenwich. Elevations above sea level, railways, types of soil in various regions. Com., geol., phy. Sha.  $1\ 1/2$  in. = 50 mi. 17.5 x 19.

Treadwell, 1926, f.p. 74.

#### 4. El Salvador

121. MAPA DE EL SALVADOR (AMERICA CENTRAL), 1926.  $13^{\circ}$  to  $14^{\circ}40'$  latitudes N. and  $87^{\circ}$  to  $90^{\circ}15'$  longitudes W. of Greenwich. Departmental and district capitals, cities, towns and ports, railways in operation and under construction. Com., pol. Sha. 17 x 25.4.

Fonseca, 1926, back.

122. RAILWAY MAP OF SALVADOR, Department of Commerce, Transportation Division, ca. 1925. International Railways of Central America, lines in operation and proposed; Salvador Railway Co., line in operation; Santa Tecla - San Salvador Electric Railway, line of operation. Outl. Com., pol.  $3/4$  in. = 20 mi. 10.2 x 15.8.

Long, 1925, p. 36.

#### 5. Guatemala

123. MAP OF THE DISTRICT OF SANTO-TOMAS, WITH THE LINE OF STEAM NAVIGATION FROM THE MOUTH OF THE RIVER DULCE, THROUGH THE GOLFE TE, AND LAKE OF YSABAL, ALONG THE COURSE OF THE RIVER POLOCHIC, TO THE NEW SETTLEMENT OF ABBOTTSVILLE IN THE TERRITORIES CONCEDED BY THE GOVERNMENT OF GUATEMALA TO THE CENTRAL AMERICA COMMERCIAL AND AGRICULTURAL COMPANY, Young Anderson, Esqr., S. Straker, Lith., London, ca. 1840.  $15^{\circ}49'45''$  latitude N. and  $88^{\circ}46'32''$  longitude W. of Greenwich.

Lands conceded and reserved by the government; lands purchased by Messrs. Bennet and Meany. Com., hydro., phy., pol, land tenure. Sha. 21.3 x 35.5. Inset: Plan of proposed town of Santo-Tomas. 7.4 x 10.5.

Memoire contenant un apercu statistique de l'etat de Guatemala..., f.p. 21.

124. GUATEMALA, The London Geographical Institute, George Philip and Son, ca. 1910.  $13^{\circ}15'$  to  $18^{\circ}20'$  latitudes N. and  $88^{\circ}20'$  to  $92^{\circ}15'$  longitudes W. of Greenwich. Cities and towns, ports, railways. Com., pol. Col.  $1\ 1/4$  in. = 50 mi. 24.1 x 18.7.

Domville - Fife, 1910, f.p. 224.

125. GUATEMALA, M. Hendges, Andrew B. Graham, Lith., Washington, 1902. From official and other sources, prepared in the Bureau of the

American Republics. Agricultural features are taken from Dr. Carl Sapper's *Das Nordliche Mittel-amerika*, 1897. 13°45' to 18° latitudes N. and 88° to 92°20' longitudes W. of Greenwich. Elevations: Hot, temperate, and cold zones; agricultural regions. Com., econ., phy., pol. 1: 792,000. 63.8 x 61.3.

126. [GUATEMALA], Departamento Necrologico, Guatemala, ca. 1926. Death rate per square mile in Guatemala for the year 1924. Outl. Pol., stat. Sha. 11.2 x 11.9.

Guatemala. Secretaria de fomento, 1926, p. 78.

127. ETHNOGRAPHIC CHART OF GUATEMALA, AFTER OTTO STOLL. 13° to 19°30' latitudes N. and 88° to 92°45' longitudes W. of Greenwich. Location of 19 indigenous tribes. 14.2 x 9.2.

Brigham, 1887, f.p. 270.

128. MAPA DE GUATEMALA, F. Castellanos B., 1910. 13°40' to 18° latitudes N. and 87° to 91°20' longitudes W. of Greenwich. Provincial capitals, cities and towns, mines, ruins, seaports, volcanoes; Guatemala, Central, Western and Verapaz railway systems; railways under construction and projected. Arch., com., econ., pol. Col. 1 3/4 in. = 80 mi. 33.3 x 32.1.

Castaneda, 1909, f.p. 272.

129. MAPA DE GUATEMALA. 13°30' to 18° latitudes N. and 88° to 92°30' longitudes W. of Greenwich. Cities and towns, hydrographic and terrestrial communications, lakes, rivers of Guatemala. Com., pol.

1: 1,705,000. 20.2 x 19.3.

Guatemala, 1922, back.

130. A MAP OF GUATEMALA, ca. 1887. Compiled from various sources. 13° to 19° latitudes N. and 88° to 92°45' longitudes W. of Greenwich. Route traveled by William T. Brigham, cities and towns, mountains, railways. Com., phy., pol. Col., sha. 26.5 x 19.1.

Brigham, 1887, f.p. 444.

131. COMERCIAL MAPA DE GUATEMALA, Rand McNally and Co., Chicago. 13° to 18° latitudes N. and 88°15' to 92°15' longitudes W. of Greenwich. National and provincial capitals, cities and towns, railways in operation, projected, and under construction, roads. Com., phy., pol. Col., mntd. 7/8 in. = 50 25.5 x 18.4.

132. LA CIUDAD DE GUATEMALA, 1895. Plan of the City of Guatemala. Com., phy. Pho. 13.6 x 11.5.

Seler-Sachs, 1900, p. 201.

133. MAPA DEL ESTADO DE GUATEMALA, REPUBLICA DE CENTRO AMERICA, Claudio Urrutia, J. Kohler, Lith., L. Freiderichsen y Cia, Hamburg, 1923. 13°30' to 18° latitudes N. and 88° to 92°30' longitudes W. of Greenwich. Recognized and undertermined boundaries; capitals, ranches, towns, and villages; mines; 1st, 2nd, and 3rd class postoffices; telegraph and telephone offices; railways in operation, proposed, and under construction; railway stations; cart and mule roads; ruins; seaports; volcanoes. Arch., com., econ., phy., pol. Col., mntd.



1: 400,000. 127 x 128. Insets: 1. Alturas de Volcanes Cerros, Cumbres y Lagunas. 21.2 x 12.7. Accompanied by chart: Plantas Importances, Alturas inferior y superior de su cultivo y producción. 21.2 x 14.5. 2. Mapa de la Distribucion de los Idiomas que se Hablan en Guatemala. Ethnog., ethnol. 20 x 21.5. 3. Mapa del Antiguo Reino de Guatemala en la Epoca de su Descubrimiento y Conquista. Com., hist., pol. 1: 4 000 000. 30.3 x 31.3. 4. Datos Estadisticos y Geograficos. 11.1 x 15.7. 5. Temperatura. Meteor. 19.1 x 20.9. 4 photostatic copies (16 sections) on file. 44.2 x 54.

134. A MAP OF THE KINGDOM OF GUATEMALA, J. Walker, Sc., J. Hearne, London, 1823. 08° to 17° latitudes N. and 82° to 95° longitudes W. of Greenwich. Early map of Kingdom of Guatemala. Hist., phy., pol. Sha. 36.9 x 41.

Juarros, 1823, f.p. 1.

135. RAILROAD MAP OF GUATEMALA, Department of Commerce, Transportation Division, ca. 1925. 13°30' to 18° latitudes N. and 88° to 92°20' longitudes W. of Greenwich. International railways of Central America in operation and proposed; Quezaltenango to Huehuetenango Line; Verapaz Railway Co., line in operation; concession for Peten to Belize railway. Outl. Com., pol. 1 1/4 in. = 50 mi. 19 x 17.6.

Long, 1925, f.p. 4.

136. MAP OF THE REPUBLIC OF GUATEMALA, American Bank Note Co., Engr., New York, ca. 1910. Cities, mines, principal agricultural products of various regions, Guatemala Central Railway Lines in operation, under construction, and projected, other railway lines, steamer routes from principal ports, submarine cables. Com., econ., pol. 43.4 x 48.3. Inset: 1. Maps showing route of Pan American Railway through Central America from Tehuantepec to Panama. 11 x 10.4. 2. Profile from Pacific Ocean to Guatemala showing height above sea level. 5.8 x 11.8.

Guatemala central railroad co., 1910.

137. GENERAL LOCATION OF SOME IMPORTANT SOIL AREAS IN GUATEMALA, Department of Commerce, ca. 1926. No. 2348-B. Base from map published by Pan American Union. Soils by H. H. Bennett. 13°40' to 18° latitudes N. and 88° to 92°20' longitudes W. of Greenwich. Elevations above sea level, types of soil in various regions. Geol., phy. Sha. 1 1/4 in. = 50 mi. 17.6 x 17.2.

Treadwell, 1926, f.p. 109.

138. [GUATEMALA TO MALACATAN]. Railways between Guatemala and Malacatan; vicinity. Com., phy. Pho. 1: 1 000 000. 8.1 x 12.7. Seler-Sachs, 1900, p. 182.

139. [GUATEMALA TO SAN JOSE]. Railways between Guatemala and San Jose; vicinity. Com., phy. Pho. 1: 1 000 000. 9.4 x 8.4. Seler-Sachs, 1900, p. 224.

140. [JALAPA TO COBAN]. Railways between Jalapa, Guatemala City, and Cuban vicinity. Com., phy. Pho. 1: 1,000,000. 12.7 x 7.4. Seler-Sachs, 1900, p. 306.

141. MAP SHOWING THE LOCATION OF PANTALON, ca. 1924. Location of Mayan ruins at Pantalón, western Guatemala; area indicating the occurrence of what is supposedly a modern parasite (filaria) causing blindness. Outl. Arch., biol. 7.4 x 6.4. 1 additional copy on file.  
Waterman, 1924, p. 353.

142. MAP OF THE RUINS OF QUIRIGUA, GUATEMALA, ca. 1913. Plan of the Mayan ruins of Quirigua. Arch. 1 in. = 100 ft. 20.3 x 11.  
Morley, 1913, p. 349.

143. SAN JOSÉ, U. S. Hydrographic Office, Washington, 1881. No. 873, 23d ed., Oct. 1922. (Corrected through Notice to Mariners, Feb. 21, 1925). 13°53' to 13°56' latitudes N. and 90°48' to 90°51' longitudes W. of Greenwich. Navigation light, plan of the city and port, telegraph cable to Salina Cruz. Com., hydro. Sha. 1: 19,389. Soundings in fathoms, elevations in feet. 39.2 x 36.3.

144. TIKAL, A. M. Tozzer and R. E. Merwin, ca. 1911. Preliminary study of the Ruins of Tikal. Arch., phy. 1 in. = 160 ft. 46.4 x 64. Includes on a separate sheet -- Tikal: Cross-section, showing Northern City, Northern, Central, and Southern Acropoleis, and Great Plaza. 1 in. = 160 ft. 18.6 x 46.  
Tozzer, 1911, back.

6. Spanish Honduras

145. PLAN OF COPAN. Measured by J. L. Stephens and F. Catherwood. Remains of Mayan temples and buildings at Copan. Arch. Sha. 1 1/4 in. = 300 ft. 11.1 x 18.4.  
Stephens, 1841, v. 1, f.p. 133.

146. PLAN OF THE PRINCIPAL GROUP OF RUINS AT COPAN, Edward Weller, Lith., 1886. Principal group of ruins, location of various buildings. Arch. Col. 3 9/16 in. = 400 ft. 32.8 x 39.1. Inset: Sketch Map of the Site of the Ruins at Copan. 1 9/16 in. = 1/2 mi. 12.1 x 9.2.  
Royal geographical society, 1886, back.

147. HONDURAS, Ohman Map Co., New York, 1920. Provincial and district capitals, hamlets, ranches, towns and villages, mines, railways, cart roads, mule trails, navigable rivers, telegraph lines. Com., econ., phy., pol. Mntd. 1: 80,000. 91.2 x 144.7.

148. HONDURAS, Department of Commerce, Geographic Section, Research, Drafting Division No. 2365, ca. 1926. 13° to 16° latitudes N. and 83° to 90° longitudes W. of Greenwich. Boundary claimed by Nicaragua. Principal cities and towns, railways. Com., pol. 9.2 x 19.  
Treadwell, 1926, p. 119.

149. RAILROAD MAP OF HONDURAS, Department of Commerce, Transportation Division, ca. 1925. 13° to 16° latitudes N. and 83° to 89°30' longitudes W. of Greenwich. Cuyamel Fruit Co. Railway, Honduras National Railway, International Railways of Central America, Standard Fruit and Steamship Co. Railway, Tela Railroad, Truxillo Railway Co. Outl. Com., pol. 1/2 in. = 30 mi. 9.7 x 19.2.

Long, 1925, p. 54.

150. ECONOMICAL MAP OF THE REPUBLIC OF HONDURAS, Alfred K. Moe, Andrew B. Graham Co., Lith., Washington, ca. 1904. Districts yielding: Bananas and plantains, cattle, cabinet woods, coffee, coal, copper, corn, gold and silver, iron, opals, rubber, sugar cane, tobacco, wheat. Cattle ranges, grazing lands, principal ports, railways, rivers. Sketch. Com., econ., pol. Sha. 2 in. = 120 mi. 22 x 34.  
Moe, 1904, front.

151. TELEGRAPH LINES IN THE REPUBLIC OF HONDURAS, Alfred K. Moe, Andrew B. Graham Co., Lith., Washington, ca. 1904. Telegraph lines and connections in the Republic of Honduras. Outl. Com., pol. 2 3/8 in. = 150 mi. 22 x 34.  
Moe, 1904, f.p. 167.

152. PRELIMINARY MAP OF SURVEYED LINE OF THE PROPOSED HONDURAS INTEROCEANIC RAILWAY, ca. 1854. Proposed line commencing at Puerto Caballos, on the Atlantic, 15°48' latitude N. and 87°50' longitude W. of Greenwich and terminating at the Bay of Fonseca via two lines from Coascoran: Comayagua, 14°28' latitude N. and 87°39' longitude W. of Greenwich, and Sacate Grande, 13°23' latitude N. and 87°36' longitude W. of Greenwich. Population of towns indicated, rivers, roads. Com., phy., stat. 20.5 x 132.2.  
Squier, 1854, f.p. 7.

153. SKETCH SHOWING THE POSITION OF LAKE YOJOA OR TAULEBE, ALSO THE PROPOSED RAILWAY BETWEEN THE BAY OF HONDURAS & THE BAY OF FONSECA, TO ILLUSTRATE A PAPER BY E. G. SQUIER, ESQR., 1859, J. Arrowsmith, London, 1860. Route of the proposed railway between the Bay of Honduras and the Bay of Fonseca. Com., phy. Sha. 19.5 x 11.1.  
Squier, 1860, f.p. 58.

154. PORT CORTEZ, PROPOSED NORTHERN TERMINUS OF THE HONDURAS INTEROCEANIC RAILWAY, Sarony, Major and Knapp, Lith., New York. Survey by J. C. Trautwine, 1857. Latitude 15°50' N. and longitude 88° W. of Greenwich. Discretionary line of railway; soundings of bay of Honduras; towns in vicinity. Com., hydro., phy. Sha. 1: 20,000. 30 x 38.5.  
Squier, 1858, f.p. 76.

155. PORT OF CABALLOS; PROPOSED NORTHERN TERMINUS OF THE HONDURAS INTEROCEANIC RAILWAY, Sarony and Co., Lith., New York. Surveyed by Lieut. W. N. Jeffers, 1853, additional soundings by Capt. T. Lewis. Latitude 15°50' N. and longitude 88° W. of Greenwich. 3 discretionary lines of railway; soundings of the Bay of Honduras; types of ground on shores. Com., hydro., phy. Sha. 1: 20,000. 30.2 x 39.9.  
Squier, 1854, f.p. 8.

156. PLAN OF THE BAY OF ST. SALVADOR DE JIQUILISCO, ANCIENTLY CALLED THE BAY OF FONSECA, J. Walker, Sc., J. Hearne, London, 1823. Soundings from the survey by Vinc<sup>te</sup> Rodriguez del Camino, by order of the Royal Consulate of Guatemala, 1798. Com., hydro., phy. Sha. 1 in. = 2 1/2. 12.5 x 20.8.  
Juarros, 1823, f.p. 32.

157. MAP OF THE TELA RAILROAD CO. LINES, Department of Commerce, Transportation Division, ca. 1925. Freight and passenger, oil, water stations, line of the Tela Railway Co., farm tramways. Outl. Com. 1/2 in. = 5 mi. 10.2 x 17.3.

Long, 1925, p. 70.

7. Mexico

158. AGRICULTURAL MAP; NATIONAL RAILWAYS OF MEXICO AND OPERATED LINES, 1924. 13° to 32°45' latitudes N. and 12°45' E. and 18° W. longitudes from Mexico City. Capitals, cities and towns; distribution of agricultural products raised in various climatic areas, railway. Com., econ., meteor., pol. Col. 6.3 cm. = 500 km. 28 x 37.6.

Abbott, 1924, f.p. 32.

159. FROM THE ALMOLOYA RIVER TO TARIFA PASS BY WAY OF CHIVELA PLAINS, 1871. Profile No. 5, Tehuantepec Expedition. Survey for a ship-canal through the Isthmus of Tehuantepec. Pro. Com., phy. Mntd. Hor. 1: 60000, ver. 1: 2400. 31.9 x 62.3.

160. ZONA ARQUEOLOGICA DE AZCAPOTZALCO, ca. 1917. Archaeological zone of Azcapotzalco. Churches; Asteca, Montana, and Teotihuacana cultures; excavations under exploration and unexplored; explored and unexplored monuments. Sketch. Arch., phy. 1: 10000. 18.1 x 36.

Gamio, 1917, f.p. 372.

161. MAP OF ROAD FROM BACALAR TO SANTA CRUZ, William Miller, Wm. Jno. Turner, 1889. 17°25' to 20°15' latitudes N. and 87°10' to 88°50' longitudes W. of Greenwich. Houses, old coffee plantation, ruins, and wells between Bacalar and Santa Cruz, peninsula of Yucatan. Arch., com., hydro. 1 1/4 in. = 32 mi. 20.4 x 11.9.

Miller, 1889, p. 24.

162. CHART OF THE ENTRANCE AND CHANNEL OF BOCA-BARRA, Endicott and Co., Lith., New York, ca. 1852. According to the survey made in November 1850 for the Tehuantepec Railroad Company of New Orleans, by their engineer, P. E. Trastour. Entered according to Act of Congress in the year 1852 by B. Fallon, Sect. of the Tehuantepec Railroad Co. of New Orleans in the Clerk's Office of the District Court of the Eastern District of Louisiana. 16°12' to 16°15' latitudes N. and 94°44' to 94°48' longitudes W. of Greenwich. Hydro. Mntd. 4 5/8 in. = 3,000 ft.

Soundings in feet, reduced for low water, November. 63 x 99. Inset: The relation of Boca-Barra to the Isthmus of Tehuantepec. 16°05' to 16°25' latitudes N. and 94°40' to 95°15' longitudes W. of Greenwich. 14.1 x 23.

163. BAY OF CAMPECHE, U. S. Hydrographic Office, Washington, 1891. From a British survey in 1852 with additions from a survey by U. S. S. Fortune in 1874. No. 1295, 24th ed., Oct. 1925. (Corrected through Notice to Mariners Sep. 26, 1926). 18°30' to 20°15' latitudes N. and 90°15' to 93° longitudes W. of Greenwich. Lights, soundings, tides and types of bottom, towns. Com., hydro., phy. 1: 290,535 at latitude 19°30'. Soundings in fathoms, elevations in feet. 69.8 x 102.

164. MAP OF PART OF CENTRAL MEXICO, H. A. Horsfall, The Engineering and Mining Journal, New York, 1909. 19° to 23° latitudes N. and 101° to 106° longitudes W. of Greenwich. Principal cities and towns, lakes and rivers, railways and roads. Com., phy., pol. 1 1/8 in. = 50 mi. 16.8 x 25.4.

Horsfall, 1909, p. 666.

165. MAP OF CENTRAL & SOUTHERN MEXICO, ca. 1908. 15° to 30° latitudes N. and 90° to 112° longitudes W. of Greenwich. Principal cities and towns, railways, roads, steamer route from Vera Cruz. Com., pol. 11.3 x 19.

Presbyterian church in U. S. A., [1908], p. 314.

166. CHIAPAS, J. Besson, Paris, ca. 1911. 14°30' to 18° latitudes N. and 05° and 09° longitudes E. of Mexico City. Capital, cities and towns, estates, farms, hamlets and villages, highways, railways, and stations of the State of Chiapas. Com., phy., pol. Col. 6.8 cm = 100 km. 27.2 x 32.1.

Stantibáñez, 1911, front.

167. PANORAMA OF CHICHEN-ITZA, William H. Holmes, ca. 1895. View of the ruins of Chichen-Itza, Yucatan, Mexico. Arch., phy. 24.5 x 65.4.

Holmes, 1895-97, pt. 1, back.

168. RUINS OF CHICHEN-ITZA, William H. Holmes, ca. 1895. Sketch map of the ruins of Chichen-Itza, Yucatan, Mexico. Arch., phy. 29.9 x 23.3.

Holmes, 1895-97, pt. 1, insert pp. 96-97.

169. FROM CHIVELA TO SALINA CRUZ BY WAY OF CHIVELA PASS, 1871. Profile No. 3, Tehuantepec Expedition. Survey for a ship-canal across the Isthmus of Tehuantepec. Elevation from Chivela to Salina Cruz. Pro. Com. Mntd. Hor. 1: 60000, ver. 1: 2400. 32.1 x 128.4.

170. CLIMATOLOGICAL CHART, F. A. Godoy, Eckert Litho. Co., Washington, ca. 1911. Cross Section Through Mexico Illustrating Climatic Conditions. Pro. Meteor. Col. Hor. 13.5 cm = 150 km., ver. 4 cm = 6,000 m. 6.6 x 29.2. Climatic Map Showing Also the Area Through Which Cross Section Is Taken. 15° to 34° latitudes N. and 85° to 118° longitudes W. of Greenwich. Meteor. Col. 2.6 cm = 200. 8.3 x 12.3.

Pan American Union, 1911, f.p. 16.

171. RECONNAISSANCE OF THE COACHAPA RIVER, the Hydrographic Party under command of Norman H. Farquhar, Tehuantepec Expedition, 1870. Survey of the Coachapa River, a tributary of the Coatzacoalcos River; river depths, sections of bank subject to overflow. Huts, paths, and roads, villages. Com., hydro., phy. Mntd., sha. 1: 60000. Soundings in feet. 31 x 81.8.

172. PLANO DE LA COSTA ESTE DE MEXICO. The east coast of Mexico in the vicinity of the port of Vera Cruz and Anton Lizardo, islands, towns. Hist., phy. 4.5 cm = 10 km. 13.4 x 19.9.

La República Mexicana, 1912, p. 9.

173. CHARTS OF THE COATZACOALCOS BAR SHOWING THE CHANGES THAT HAVE TAKEN PLACE FROM 1848 TO 1871.  $18^{\circ}07'30''$  to  $18^{\circ}09'30''$  latitudes N. and  $94^{\circ}21'$  to  $94^{\circ}22'$  longitudes W. of Greenwich. Isthmus of Tehuantepec, southeast coast of Mexico, showing changes since the survey of 1848 by M. C. Perry, to survey of 1871 by the Tehuantepec Expedition. Hydro., phy. Mntd. Hor. 1: 10,000, ver. 1: 500. 64.8 x 94.4.

174. CHART OF THE COATZACOALCOS RIVER, the Hydrographic party under the command of N. H. Farquhar, 1871.  $17^{\circ}56'$  to  $18^{\circ}10'$  latitudes N. and  $94^{\circ}18'$  to  $94^{\circ}30'$  longitudes W. of Greenwich. Tehuantepec Expedition chart of the course of the Coatzacoalcos River from Coatzacoalcos to Minatitlan. Com., hydro., phy. Sha. 1: 20,000. 53.3 x 130.6.

175. MAP OF THE COATZACOALCOS RIVER, FROM MINA-TITIAN TO THE ISLA DEL SUCHIL, AND OF THE JALTEPEC RIVER, FROM ITS JUNCTION TO THE RAILROAD CROSSING, Louis R. C. Townsend, Sarony and Major, Lith., New York, 1851. Tehuantepec Railroad Survey made by the Hydrographic Party under the command of Wm. G. Temple. Entered according to Act of Congress in the year 1852 by B. Fallon of New Orleans, Sect., Tehuantepec Railroad Co. in the Clerk's office of the District Court. Soundings are expressed in feet and show the greatest depth in channel reduced to the lowest stage of the river. Com., hydro., phy. Mntd., sha. 1: 120,000. 37.5 x 79.8.

176. MOUTH OF THE COATZACOALCOS RIVER, U. S. Hydrographic Office, Sherman and Smith, New York, 1848. Latitude  $18^{\circ}08'$  N. Old and new channels of river, mud flats, State of Vera Cruz. Hydro., phy. Mntd., sha. 6 1/4 in. = 1 mi. Soundings in fathoms. 47.5 x 41.1.

177. MOUTH OF THE COATZACOALCOS RIVER, the Hydrographic Party under the Command of Lieut. Comdr. Norman H. Farquhar, U. S. N., 1871. From Survey of the Tehuantepec Expedition.  $18^{\circ}07'30''$  to  $18^{\circ}09'$  latitudes N. and  $94^{\circ}21'$  to  $94^{\circ}22'$  longitudes W. of Greenwich. Anchorages, types of bottom, lighthouse, high and low water. Com., hydro., phy. Mntd., sha. 1: 50000. 84 x 60.4.

178. PLANO DE LA BOCA DEL RIO COATZACOALCOS. Mouth of Coatzacoalcos River to show changes in channel and depth since 1870-71, Tehuantepec Expedition. Chart of river published by Hydrographic Office in 1887, the mouth probably in 1906, since there are indications that a bank was formed in 1900. Plan of Coatzacoalcos City, railways and roads. Com., hydro., phy. 4 cm = 1000 m. 14.6 x 10.4.

La República Mexicana, 1912, p. 35.

179. PLANO DEL CURSO DEL RIO COATZACOALCOS DESDE LA CONFLUENCIA DEL MALATENGO HASTA SU BOCA EN EL SENO MEXICANO, F. P. Becker and Co., Engr., London, 1843.  $17^{\circ}$  to  $18^{\circ}10'$  latitudes N. and  $00^{\circ}55'$  E. to  $00^{\circ}55'$  W. longitudes from Juchitan. Coatzacoalcos River from its tributary, the Malatengo River, to its mouth on the Mexico coast of the Gulf of Mexico, State of Vera Cruz, river depths, physical features of banks. Com., hydro., phy. Mntd. 1: 250,000. 52.8 x 42.8. Inset: Plano de la Boca del Rio Coatzacoalcos. 1: 50,000. 15.7 x 10.5.

180. SKETCH FROM THE MOUTH OF THE COATZACOALCOS RIVER, TO THE TOWN OF MINA-TITLAN, 1847. Soundings by Lieuts. Alden, Blunt, and May. Made by order of Commodore M. C. Perry, Comdg. Home Squadron. 18°11' latitude N. and 94°24' longitudes W. of Greenwich. Course of the Coatzacoalcos River. Cattle, horses, grass, fine meadow land, savanna. Com., econ., hydro., phy. Mntd. Approximate scale: 1 in. = 3,000 ft. Soundings in feet. 55 x 39.5.

181. RECONNAISSANCE OF THE COATZACOALCOS RIVER FROM THE TOWN OF MINATITLAN TO THE ISLAND OF TACAMICHAPA, the Hydrographic Party under command of Norman H. Farquhar, Tenuantepec Expedition, 1871. River depths, physical features of banks. Hydro., phy. Mntd. 1:40,000. 40.9 x 69.4.

182. MAP SHOWING COUNTRY OF THE HUICHOL AND CORA INDIANS AND ADJACENT TERRITORY, ca. 1902. From the notes of Carl Lumholtz. 22° to 23° latitudes N. and 05° to 06° longitudes W. of Mexico City. Mines, ranches, ruins, temples, towns, and Indian villages of northwestern Mexico. Arch., com., econ., ethnog., phy. 2 5/8 in. = 20 mi. 25.1 x 30.5. 7 photostatic copies (1 mntd.) on file. Lumholtz, 1902, v. 2, back.

183. MAP OF THE STATE OF DURANGO, MEXICO, ca. 1904. 23° to 27° latitudes N. and 102°15' to 107°30' longitudes W. of Greenwich. Route taken in the Sierra Madre by Oliver Cummings Farrington, railways and roads. Com., phy., pol. 1 in. = 41 mi. 17.8 x 22.1. Farrington, 1904, front.

184. MAP SHOWING THE APPROXIMATE LOCATION OF THE 500-METER INTERVAL CONTOUR LINES, ca. 1919. 1,500-meter line outlines the plateau region which culminates in vicinity of Mexico City where there is considerable area above the 2,500-meter line. Sketch. 7.5 x 10.7. Hitchcock, 1919, p. 129.

185. PORT OF FRONTERA, U. S. Hydrographic Office, Washington, 1915. No. 2753, 6th ed., Oct., 1923. (Corrected through Notice to Mariners No. 50, Dec. 13, 1924). 18°34'40" to 18°41'50" latitudes N. and 92°38'50" to 92°44'50" longitudes W. of Greenwich. Grijalva Canal, lighthouse, navigation lights, plan of Frontera, roads. Com., hydro. Col. 1:18,396. Soundings in feet. 72.9 x 59.4.

186. PLANO DE LA CIUDAD DE GUADALAJARA, Dirección General de Obras Públicas, Tip. y Lit. Sucs. de Loreto y Ancira, Guadalajara, 1920. 20°40'31" latitude N. and 04°13'53" longitude W. of Mexico City. Plan of city of Guadalajara, highways, railways. Com. Col. 1:10000. 63.1 x 87.3. Santana, 1920, back.

187. GEOLOGICAL MAP OF GUANAJUATO DISTRICT, Engineering and Mining Journal, New York, ca. 1909. Geologic formation of Guanajuato District, central Mexico. Com. 1:42,890. 17.1 x 17.8. Villarello, Flores, and Robles, 1909, p. 673.

188. SECTION SHOWING THE PRINCIPAL MINES ON THE VETA MADRE (MOTHER LODE) OF GUANAJUATO. Geologic section of the Mother Lode of Guanajuto, State of Guanajuato, shafts and workings of principal silver mines. Econ., geol. Sha. 1: 1 333 1/3. 56 x 10.  
Struthers, 1901, p. 534.

189. DIRECTORIO: MAPA DEL ESTADO DE JALISCO, copyright by Professors M. Gph. Torres Veliz and Tomás L. Rubalcaba, Ancira, Mexico, 1925. Capitals, congressional districts, hamlets, highways, telegraph and telephone lines, railways, mountain ranges, rivers, towns in which schools exist. Com., phy., pol. Col., mntd. 86.9 x 66.1.

190. GENERAL PLAN OF THE RUINS OF KABAH, John L. Stephens, ca. 1843. Mayan ruins at Kabah, Yucatan. Arch. 17.3 x 11.9.  
Stephens, 1843, v. 1, f.p. 384.

191. LAKE PATZCUARO, Mexican National R. R., ca. 1898. Route of Mexican National Railroad from Tzintzuntzan through San Bartolo. Principal cities and towns in the Lake Patzcuaro region. Com., phy. 12.5 x 19.  
Mexican national railroad, c1898, pp. 40-41.

192. MAP AND SECTION OF PORTION OF LAS ESPERANZAS AND SABINAS COAL BASIN, The Engineering and Mining Journal, New York, ca. 1909. Geological formations, principal coal mines in the State of Coahuila. Com., econ., geol., phy. 1: 120,000. 14.3 x 17.8.  
Ludlow, 1909, p. 661.

193. CHARTS OF THE PORTS OF LAVENTOSA & SALINA CRUZ, J. Schedler, Engr., Sarony and Major, Lith., New York, 1851. According to the survey made in December 1850 for the Tehuantepec Railroad Company, New Orleans, by their engineer, P. E. Trastour. Entered according to Act of Congress in the year 1852 by B. Fallon of New Orleans, Sect., Tehuantepec Railroad Co. in the Clerk's office of the District Court for the Eastern District of Louisiana. 16°08'30" to 16°12' latitudes N. and 95°06'43" to 95°12'40" longitudes W. of Greenwich. Com., hydro., phy. Mntd., sha. 1: 11000. Soundings in feet, reduced for low water, December. 59.3 x 95.7.

194. MANZANILLO AND SANTIAGO BAYS, U. S. Hydrographic Office, Washington, 1888. Original survey by the U. S. S. Ranger in 1882. No. 915, 24th ed., Oct. 1921. (Corrected through Notice to Mariners No. 51, Sep. 19, 1925, Hydrographic Office, Navy Department.) 18°50' to 19°10' latitudes N. and 104°17' to 104°28' longitudes W. of Greenwich. West coast of Mexico. Navigation lights, railway, trails, towns. Com., hydro., phy. Sha. 1: 29,115. Soundings in fathoms, elevations in feet. 74.2 x 70.1.

195. MAZATLAN, Ordnance Survey, 1918. Plan of location of civil and military hospitals, customhouse, fort, town hall, boat landings, warning lights, powder magazine, wireless station, tramway, warehouses, water works. Phy. Col., mntd. 2 1/4 in. = 500 yds. 35.8 x 30.



196. HARBOR OF MAZATLAN, U. S. Hydrographic Office, Washington, 1910. From a Mexican survey in 1907. No. 1024, 9th ed., Mar. 1922. 23°09' to 23°16' latitudes N. and 106°24' to 106°30' longitudes W. of Greenwich. Beacons, buoys, navigation lights, plan of Mazatlan and harbor, connecting railways and roads. Com., hydro., phy. 1: 18,241. Soundings in fathoms, elevations in feet. 74.5 x 58.9. 7 reduced photostatic copies (1 mtd.) on file. 49.4 x 29.6.

197. PLAN OF THE MODERNIZED CITY OF MERIDA, YUCATAN, MEXICO. Avenues and streets, buildings of interest to the visitor, municipal districts. Com. 23.8 x 24.1.  
Young, n. d., back.

198. PLANO DE LA CIUDAD DE MERIDA Y SUS PRINCIPALES COLONIAS, Vadillo, Mérida, ca. 1930. Municipal districts, avenues and streets, buildings of interest in the city of Mérida, Yucatan. Airport of La Cia. Mexicana de Aviacion. Plat. Com. 24 x 33.  
Gutiérrez G., 1930, f.p. 40.

199. MAP OF THE MEXICAN CENTRAL RAILWAY AND CONNECTIONS, Poole Brothers, Engr., Chicago, 1892. 15° to 32° latitudes N. and 89° to 113° longitudes W. of Greenwich. Capitals, principal cities and ports, route of Mexican Central Railway from Juarez to Mexico City and Tampico, steamer routes from Tampico to United States and Europe. Com., phy., pol. Col., mtd. 1 11/16 in. = 100 mi. 53.7 x 62.5. Inset: Profile from Irapuato to Guadalajara. 3.2 x 5.4. Profile from Aguascalientes to Tampico. 4.2 x 11.8. Profile of the Mexico Central Railway from Ciudad Juarez to Mexico City. 4.2 x 32.2.

200. MAP OF GUADALAJARA DIVISION, MEXICAN CENTRAL RAILWAY. From Mexico City to Guadalajara via Irapuato; Irapuato to San Blas. Com., phy., pol. Col. 12 x 18.2. 1 additional copy on file.  
Rogers, 1893, f.p. 221.

201. MAP OF TAMPICO DIVISION, MEXICAN CENTRAL RAILWAY. From Tampico to Guanajuato via Chicalote; Chicalote to Gutierrez. Com., phy., pol. Col. 12 x 18.2. 1 additional copy on file.  
Rogers, 1893, f.p. 242.

202. PLAN AND PROFILE OF THE MEXICAN RAILWAY AND FORMER PROJECT OF COLONEL TALCOTT, C. E., ca. 1876. Principal cities and towns, route of Mexican Railway from Mexico City to Vera Cruz, track in operation and projected by Talcott's survey, stations, tunnels. Com., phy. Sha. 29 x 48.  
Baz and Gallo, 1876, f.p. 192.

203. MEXICAN WEST COAST, J. Winsor Ives, Mexico. Route of the Southern Pacific Railway. Carload movements of perishable exports from the west coast of Mexico during the shipping seasons. Nov. 1 - June 1, 1920-25. Com., econ., pol., stat. Blueprint. Approximate scale: 1 in. = 70 mi. 33.5 x 67.

204. REPUBLICA MEXICANA, Servicio Meteorologico, Mexico, ca. 1910. 17 maps accompanying meteorological charts. Isothermal readings for

spring, summer, autumn, and winter, 1906-1910. Maximum and minimum annual temperature, 1906-1910. Minimum temperature for January-December, 1906-1910. Meteor. Col. 1: 10,000,000. 23 x 32.3.

Mexico. Secretaria de agricultura y fomento, [1910.]

205. [LA REPUBLICA MEXICANA], Secretaria de Agricultura y Fomento, Dirección de Estudios Geográficos y Climatológicos, Tacubaya, 1921-1923. I. 32 maps, each accompanied by a physical outline and 1 geological map of Mexico. II. 33 additional copies, mounted, extracted from another copy of the Atlas Geográfico de la República Mexicana. With the exception of one, all maps are accompanied by mounted physical outlines. Com., phy., pol. Col. III. 88 photostatic copies (22 negative and 66 positive) comprehending 22 maps, each accompanied by a physical outline. Com., phy., pol. 42.5 x 53.5. 1 additional copy of Atlas, 1919-1921, on file.

I. 1. Carta Geologica de la Republica Mexicana, Secretaria de Industria Comercio y Trabajo, Departamento de Exploraciones y Estudios Geologicos, Zincografia de la Dirección de Estudios Geográficos y Climatológicos. 14° to 33° latitudes N. and 86° and 118° longitudes W. of Greenwich. Geol. 1: 6 500 000. 35.4 x 48. 1. Republica Mexicana. 14° to 33° latitudes N. and 86° to 118° longitudes W. of Greenwich. 1: 6,500,000. 35.4 x 48. 2. Aguascalientes. 21°30' to 22°30' latitudes N. and 101°30' to 103°26' longitudes W. of Greenwich. 1: 500 000. 36.1 x 45.2. 3. Baja California. 22°45' to 33° latitudes N. and 109° to 117°15' longitudes W. of Greenwich. 1: 2000000. 62.5 x 45.3. 2 insets: a. Bahía de Magdalena y Sus Alrededores. 1: 500,000. 13.7 x 19.3. b. Puerto Yalrededores de La Paz. 1: 200,000. 22 x 14.4. 4. Campeche. 17°45' to 20°45' latitudes N. and 88°30' to 92°30' longitudes W. of Greenwich. 1: 1,000,000. 36.1 x 45.4. 5. Chiapas. 14°30' to 18° latitudes N. and 90° to 94°30' longitudes W. of Greenwich. 1: 1 000 000. 36.4 x 45.4. 6. Chihuahua. 25° to 32° latitudes N. and 103° to 109°20' longitudes W. of Greenwich. 1: 1 400 000. 62.2 x 45.4. 7. Coahuila. 24°20' to 29°50' latitudes N. and 99°50' to 104° longitudes W. of Greenwich. 1: 1,000,000. 65.6 x 45.2. 8. Colima. 15°30' to 18°30' latitudes N. and 103°15' to 104°45' longitudes W. of Greenwich. 1: 400 000. 36.3 x 45.4. 9. Distrito Federal. 19°03' to 19°36' latitudes N. and 98°57' to 99°24' longitudes W. of Greenwich. 1: 150,000. 45.4 x 36.4. 10. Durango. 22° to 27° latitudes N. and 102°10' to 107°10' longitudes W. of Greenwich. 1: 1200000. 49.7 x 45.4. 11. Guanajuato. 19°50' to 21°50' latitudes N. and 99°30' to 102°10' longitudes W. of Greenwich. 1: 700 000. 36.3 x 45.4. 12. Guerrero. 16° to 19° latitudes N. and 98° to 102°20' longitudes W. of Greenwich. 1: 1000000. 37.6 x 50. 13. Hidalgo. 19°30' to 21°30' latitudes N. and 97°50' to 100° longitudes W. of Greenwich. 1: 600,000. 37.5 x 45. 14. Jalisco. 19°58' to 22°58' latitudes N. and 101°20' to 105°50' longitudes W. of Greenwich. 1: 1000 000. 44.4 x 50.3. 15. Mexico. 18°30' to 20°20' latitudes N. and 98°30' to 100°30' longitudes W. of Greenwich. 1: 600,000. 36.1 x 45.2. 16. Michoacan. 17°50' to 20°30' latitudes N. and 100° to 103°50' longitudes W. of Greenwich. 1: 1000 000. 36.2 x 45.3. 17. Morelos. 18°18' to 19°09' latitudes N. and 98°30' to 99°31' longitudes W. of Greenwich. 1: 300 000. 36.4 x 45.2. 18. Nayarit. 20°30' to 23°05' latitudes N. and 103°55' to 105°50' longitudes W. of Greenwich. 1: 650,000. 45.2 x 36.1 Inset: Islas Tres Marias. 12.5 x 11.5. 19. Nuevo Leon. 23° to 27°50' latitudes N. and

98° to 101°20' longitudes W. of Greenwich. 1: 1,000,000. 57.2 x 45.2.  
20. Oaxaca. 15°30' to 19° latitudes N. and 93°50' to 98°35' longitudes W. of Greenwich. 1: 1,000,000. 45.5 x 55. 21. Puebla. 17°50' to 20°50' latitudes N. and 96°40' to 99°10' longitudes W. of Greenwich. 1: 800,000. 45.3 x 36.2. 22. Queretaro. 20° to 21°10' latitudes N. and 99° to 100°35' longitudes W. of Greenwich. 1: 500,000. 45.5 x 36.5.  
23. Quintana Roo. 18° to 21°35' latitudes N. and 86°30' to 89°30' longitudes W. of Greenwich. 1: 1,000,000. 45.5 x 36.3. 24. S. Luis Potosi. 21° to 24°40' latitudes N. and 98° to 102°15' longitudes W. of Greenwich. 1: 1 000 000. 36.2 x 45.2. 25. Sinaloa. 22°30' to 27° latitudes N. and 105°30' to 109°30' longitudes W. of Greenwich. 1: 1,000 000. 57.2 x 45.5. 26. Sonora. 26°10' to 33° latitudes N. and 108°20' to 115°10' longitudes W. of Greenwich. 1: 1 200 000. 55.8 x 45.3. 27. Tabasco. 17° to 19° latitudes N. and 90°55' to 94°10' longitudes W. of Greenwich. 1: 800000. 36 x 45. 28. Tamaulipas. 22° to 27°50' latitudes N. and 97° to 101° longitudes W. of Greenwich. 1: 1000.000. 70.1 x 45. 29. Tlaxcala. 19° to 19°45' latitudes N. and 97°36' to 98°45' longitudes W. of Greenwich. 1: 300 000. 36.2 x 45.4.  
30. Veracruz. 17° to 23° latitudes N. and 93°30' to 99° longitudes W. of Greenwich. 1: 1,000 000. 70 x 45.3. Inset: Plano de la Ciudad y Puerto de Veracruz. 1: 25,000. 17.3 x 16.3. 31. Yucatan. 19°30' to 21°45' latitudes N. and 87°30' to 90°30' longitudes W. of Greenwich. 1: 1 000 000. 36.4 x 45.1. 32. Zacatecas. 21°20' to 25°10' latitudes N. and 100°45' to 104°10' longitudes W. of Greenwich. 1: 1 000 000. 46 x 36.8.

II. 1. Aguascalientes. 2. Baja California. 3. Campeche. 4. Chiapas. 5. Chihuahua. 6. Coahuila. 7. Colima. 8. Distrito Federal. 9. Durango. 10. Guanajuato. 11. Guerrero. 12. Hidalgo. 13. Jalisco. 14. Mexico. 15. Michoacan. 16. Morelos. 17. Nayarit. 18. Nuevo Leon. 19. Oaxaca. 20. Puebla. 21. Queretaro. 22. Quintana Roo. 23. S. Luis Potosi. 24. Sinaloa. 25. Sonora. 26. Tabasco. 27. Tamaulipas. 28. Tlaxcala. 29. Veracruz. 30. Yucatan, one additional map of Yucatan unaccompanied by physical outline.

III. 4 maps each of: Campeche, Chiapas, Colima, Distrito Federal, Guanajuato, Guerrero, Hidalgo, Jalisco, Mexico, Michoacan, Morelos, Nayarit, Oaxaca, Puebla, Queretaro, Quintana Roo, Sonora, Tabasco, Tamaulipas, Tlaxcala, Veracruz, Yucatan.

Mexico. Secretaria de agricultura y fomento, 1921-23.

206. CARTA SEISMICA DE LA REPUBLICA MEXICANA, F. de Montessus de Ballore, 1892. Trend and intensity of the earthquake of June 1897, in the isthmus of Tehuantepec drawn in by Pedro C. Sanchez and Manuel Rangel. Outl. Seismo. Pho. 1: 5'000.000. 29.8 x 46.  
Sanchez and Rangel, 1897, f.p. 22.

207. FERROCARRIL MEXICANO Y CONNECCIONES, ca. 1923. Route of Mexico Railway from Tampico to Mexico City, Mexico City to Vera Cruz. Connecting lines: Interoceanic, Mexican, Mexican National, Otros, San Rafael and Atlixco, Southern, Tehuantepec, Vera Cruz. Com., pol. Col. 29.9 x 21.5. 3 insets: 1. Profile, Mexico City to Vera Cruz. 2 x 15. 2. Mapa del F C Pan American. Railway from San Geronimo to Guatemala. 3.1 x 5.1. 3. Plano que indica de pendiente de Orizaba del Valle de Encinar a Boca del Monte. 4.3 x 6.8.

Castillo, 1923, B.

208. MAPA DEL IMPERIO MEXICANO. 13° to 21°30' latitudes N. and 278° to 283° longitudes E. of Madrid. Reduced copy of an old map of Empire of Mexico prior to the Spanish Conquest, native cities and states. Hist., phy., pol. 11.2 x 15.1.  
La República Mexicana, 1912, p. 2.

209. MEXICO, Matthews-Northrup Works, Buffalo, ca. 1914. 16° to 34° latitudes N. and 89° to 113° longitudes W. of Greenwich. Capitals, railways in operation and projected. Com., pol. Col. 2 3/8 in. = 400 mi. 22 x 28.5.  
Mexico Today, 1919, f.p. 78.

210. [MEXICO], ca. 1925. With the exception of nos. 13 and 17, all maps, plats, and plans were made especially for Terry's Mexico. 2 maps, 21 plats, 5 plans. I. Maps: 1. Mapa de los Ferrocarriles de la Republica Mexicana. 14° to 33° latitudes N. and 90° to 116° longitudes W. of Greenwich. Capitals, principal cities and towns, steamer routes, railway system. Com., pol. Col. 1: 16,000,000. 14.8 x 19.5. Insert xxx-xxxi. 2. Plan of the City & Valley of Mexico. Canals, railways, rivers, roads. Com., phy. Col. 1: 293,000. 14.8 x 19.7. Insert pp. 246-247.

II. Plats: 1. Plano del Bosque de Chapultepec. Com. Col. 1: 12,000. 14.8 x 19.5. Insert pp. 380-381. 2. Plano de Chihuahua. Com. Col. 1: 40,000. 14.8 x 9.8. F.p. 25. 3. Plano de la Ciudad de Mexico. Com. Col. 1: 25,800. 22.2 x 27.3. F.p. 232. 4. Plano de Cuernavaca. Com., phy. Col. 1: 15,000. 14.8 x 14.8. F.p. 436. 5. Plano de Durango. Com., phy. Col. 1: 30,000. 14.8 x 19.5. Insert pp. 100-101. 6. Plano de Guadalajara. Com. Col. 1: 29,000. 19.5 x 14.8. Insert pp. 160-161. 7. Plano del Lago de Chapala. Com., phy. Col. 1: 800,000. 9.7 x 14.7. F.p. 152. 8. Plano de Merida. Com. Col. 1: 67,000. 10 x 14.8. F.p. 574. 9. Plano de Monterey. Com., phy. Col. 1: 31,200. 14.8 x 19.5. Insert pp. 4-5. 10. Plano de Morelia. Com. Col. 1: 19,200. 14.8 x 19.5. Insert pp. 202-203. 11. Plano de Oaxaca. Com., phy. Col. 1: 22,800. 15 x 14.8. F.p. 528. 12. Plano de Puebla. Com. Col. 1: 15,300. 14.8 x 19.5. Insert pp. 508-509. 13. Map Showing Terminals, Refineries, Wharves, etc., on the Panuco River, Torres to Gulf of Mexico, 1920. Com. Sha. 19.5 x 8.3. F.p. 50. 14. Plano de Queretaro. Com., phy. Col. 1: 5,500. 14.8 x 19.5. Insert pp. 108-109. 15. Plano de Saltillo. Com., phy. Col. 1: 26,500. 10.9 x 14.8. F.p. 12. 16. Plano de San Luis Potosí. Com. Col. 1: 14,400. 19.5 x 14.8. Insert pp. 16-17. 17. Map of the City of Tampico and Colonies, 1920. Com. Sha. 1: 3000. 19.5 x 7.5. F.p. 50. 18. Plano de Toluca. Com., phy. Col. 1: 24,000. 9.7 x 14.8. F.p. 194. 19. Plano de Uruapan. Com. Col. 1: 27,000. 9.8 x 14.8. F.p. 227. 20. Plano de Vera Cruz. Com. Col. 1: 44,000. 14.5 x 9.5. F.p. 469. 21. Plano de Zacatecas. Com., phy. Col. 1: 19,200. 19.8 x 14.8. Insert pp. 38-39. Plats show avenues and streets.

III. Plans: 1. Plano de la Academia de San Carlos. Upper floor. 8 x 10.6. F.p. 310. 2. Plano del Castillo de Chapultepec. Col. 1: 1,100. 9.8 x 14.8. F.p. 386. 3. Cathedral of Mexico. Floor plan. Col. 1: 3,100. 14.8 x 10.7. F.p. 272. 4. Chapel of

the Well (Capilla del Pocito) Guadalupe. Col. 1: 186. 16.4 x 9.9. F.p. 403. 5. Palcacio Nacional. Col. 1: 2,220. 14.7 x 9.9. Inset: Upper floor. 3.9 x 9.9. F.p. 267. Plans show architectural detail of buildings of historical interest. Terry, 1925.

211. MEXICO, Rand, McNally and Co., Chicago. Three maps: Mexico, ©1906; Rand-McNally Standard Map of Mexico; The Rand-McNally New Commercial Atlas Map of Mexico, ©1914. 14° to 32° latitudes N. and 87° to 116° longitudes W. of Greenwich. Capitals, cities and towns (population indicated), railways. Com., phy., stat. Col., mntd. 1 in. = 72 mi. 48.2 x 66. Inset: State of Mexico and Surrounding Country. 15° to 21° latitudes N. and 95° to 115° longitudes W. of Greenwich. 1 in. = 24 mi. 17 x 34.9.

212. MEXICO, Sidney Hall, Engr., Henry Colburn, London, 1829. 16° to 42° latitudes N. and 86° to 125° longitudes W. of Greenwich. Cities and towns, mines, railways, roads. Com., econ., phy., pol. Sha. 54.4 x 67.4. Ward, 1829, v. 1, back.

213. MEXICO, ca. 1921. 16° to 32° latitudes N. and 88° to 116° longitudes W. of Greenwich. 6 maps illustrating the percentage of reported deaths at various ages in Mexico due to: 1. Malaria, 1901-1903. 2. Dysentery, 1901-1903. 3. Respiratory diseases other than tuberculosis, 1901-1903. 4. Tuberculosis, 1901-1903. 5. Typhus, 1899-1903. 6. Smallpox, 1899-1903. Pol., stat. Sha. 3/4 in. = 200 mi. 7.9 x 11.9. Huntington, 1921, pp. 249, 250, 251.

214. MEXICO, Wm. M. Bardley and Bro., ca. 1889. No. 73. 16° to 32° latitudes N. and 89° to 117° longitudes W. of Greenwich. Narrow and standard guage railways, projected railways; submarine telegraph cables. Com., phy., pol. Col., mntd. 2 in. = 150 mi. 43.5 x 59.7. Insets: 1. Southeastern part of Mexico including British Honduras and part of Guatemala. 15° to 22° latitudes N. and 09° longitudes W. of Greenwich. 2 in. = 150 mi. 15.6 x 17.4. 2. Veracruz to Mexico. 18° to 20° latitudes N. and 19° to 23° longitudes W. of Greenwich. 1/2 in. = 20 mi. 12.3 x 22.1. 1 additional copy on file.

215. [MEXICO], ca. 1925. 2 maps indicating regions in which hookworm was prevalent in the states of Mexico in 1925. Outl. Pol., stat. Sha. 7.5 x 11. Warren and Carr, 1925, p. 59.

216. [MEXICO]. Location of 23 tribes in southern Mexico. Sketch. Ethnog. 6 x 11. Starr, 1902, p. 5.

217. MEXICO, DISTRIBUTION OF RURAL POPULATION, The Geographical Review, 1921. 16° to 32° latitudes N. and 88° to 116° longitudes W. of Greenwich. Distribution of rural population density per square km. Com., pol., stat. Sha. 1 1/2 in. = 200 mi. 20.5 x 30.5. Cushings, 1921, f.p. 232.

218. MEXICO, NORTHEAST. North G-H, 13-14. Preliminary edition, subject to correction.  $24^{\circ}$  to  $32^{\circ}$  latitudes N. and  $96^{\circ}$  to  $108^{\circ}$  longitudes W. of Greenwich. Principal cities, towns, railways, roads. Com., pol. Mntd. 46.4 x 62.6.

219. MEXICO, NORTHWEST. North G-H, 11-12. Preliminary edition, subject to correction.  $23^{\circ}$  to  $32^{\circ}$  latitudes N. and  $108^{\circ}$  to  $120^{\circ}$  longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 51.6 x 63.4.

220. MEXICO, SOUTHEAST. North E-F, 15-16. Preliminary edition, subject to correction.  $16^{\circ}$  to  $24^{\circ}$  latitudes N. and  $84^{\circ}$  to  $96^{\circ}$  longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 45.9 x 65.8.

221. MEXICO, SOUTHWEST. North E-F, 13-14. Preliminary edition, subject to correction.  $15^{\circ}30'$  to  $24^{\circ}$  latitudes N. and  $96^{\circ}$  to  $108^{\circ}$  longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 46.8 x 65.7.

222. MEXICO, SHOWING RAILWAYS BUILT AND PROJECTED, E. E. Court, The Norris Peters Co., Lith., Washington. S. Ex. 125. 51 l. To accompany the Report of the United States Delegates.  $16^{\circ}$  to  $32^{\circ}$  latitudes N. and  $90^{\circ}$  to  $116^{\circ}$  W. of Greenwich. Railways in operation and proposed; proposed Intercontinental Lines. Com., phy., pol. Mntd., sha. 2 in. = 200 mi. 44.2 x 58.8. Inset: South Eastern Part of Mexico. 2 in. = 200 mi. 17.9 x 17.

223. AREAS IN MEXICO SHOWING SWAY OF VARIOUS FACTIONS, Military Intelligence Section of the War Plans Division of the General Staff, United States Army, Washington, 1919. States of Mexico showing domination of various factions in 1919. Pol., stat. Sha. 14.9 x 21.  
U. S. Congress. House, 1919, f.p. 140.

224. CARTA ETHNOGRÁFICA DE MEXICO, Lit. de Salazar, ca. 1876. Distribution of Indian tribes of Mexico. Outl. Ethnog., pol. Sha. 17.6 x 24.3.  
Cubas, 1876, back.

225. MAP OF MEXICO LOCATING 317 INSTANCES OF MAJOR DISORDERS AS REPORTED IN MEXICAN NEWSPAPERS FOR FOUR MONTHS, APRIL-JULY, 1919. Made for Joseph T. Annin, under his personal direction, Washington, 1919.  $15^{\circ}$  to  $32^{\circ}$  latitudes N. and  $86^{\circ}$  to  $117^{\circ}$  longitudes W. of Greenwich. Map accompanied by tabulation giving numbers, date, details, and authority for each entry. Com., pol., stat. 18.8 x 26.8.  
U. S. Congress. Committee on foreign relations, 1920, v. 1, f.p. 715.

226. MAPS OF MEXICO, British Admiralty, London, 1919. 10 sheets containing maps and plans:

I. Maps: 2. Northern Vera Cruz, Oil Area, Naval Staff I.D.  $20^{\circ}30'$  to  $22^{\circ}30'$  latitudes N. and  $97^{\circ}$  to  $98^{\circ}30'$  longitudes W. of Greenwich. 1: 750,000. 28.8 x 20.7. 3. Mexico, Naval Staff I.D.  $16^{\circ}$  to  $32^{\circ}$  latitudes N. and  $88^{\circ}$  to  $116^{\circ}$  longitudes W. of Greenwich. Railway

system of Mexico. 1: 5,000,000. 43.8 x 62.4. 2 mntd. copies on file.  
5. Mexico, Naval Staff I.D. 16° to 32° latitudes N. and 88° to 116° longitudes W. of Greenwich. Location of telegraph lines and wireless stations. 1: 7,500,000. 29.7 x 42.5. 6. Rivers of Tabasco. 17°45' to 19° latitudes N. and 91° to 94° longitudes W. of Greenwich. 2 1/2 in. = 40 mi. 16.3 x 26.8. On same sheet: [Plan of] Tampico, Ordnance Survey, 1918. 5 1/2 in. = 2 mi. 14.7 x 46.2.

II. Plans: 7. Plans of Inland Towns: Aguascalientes. 1 1/2 in. = 1 mi. 9.8 x 14.7. Chihuahua. 2 3/4 in. = 1 mi. 16.5 x 10.1. Cordoba. 1 3/4 in. = 1 mi. 10.4 x 16.1. Cuernavaca. 1 in. = 1 mi. 10.7 x 10. Hermosillo. 1 1/2 in. = 1 mi. 12.8 x 9.8. Merida. 1 in. = 1 mi. 10.1 x 13.9. 8. Plans of Inland Towns: Durango. 1 1/4 in. = 1/2 mi. 11.7 x 15.7. Guadalajara. 1 3/4 in. = 1/2 mi. 16.5 x 14.4. Guanajuato. 1 1/4 in. = 1/2 mi. 10.8 x 17.2. Mexico City. 1 1/4 in. = 1/2 mi. 20.2 x 24.8. 9. Plans of Inland Towns: Monterey. 1 1/2 in. = 1/2 mi. 11.9 x 15.5. Oaxaca. 1 in. = 1/2 mi. 14.1 x 13.9. Puebla. 3/4 in. = 1/4 mi. 9.5 x 12. Saltillo. 3/4 in. = 1/4 mi. 9.5 x 12.9. Toluca. 3/4 in. = 1/4 mi. 8.8 x 15.1. Zacatecas. 3/4 in. = 1/4 mi. 15.3 x 9.1. 11. Plans of Seaport Towns: Guaymas, Ordnance Survey, 1918. 2 1/2 in. = 600 yds. 15.7 x 27.2. Salina Cruz harbor and town, Ordnance Survey, 1918. 3 in. = 1/2 mi. 17.7 x 27.3. 13. Plan of Seaport Towns: The Piers and Central Part of Progreso, Yucatan, Ordnance Survey, 1918. 2 in. = 600 ft. 25.4 x 13.1. Vera Cruz, Ordnance Survey, 1918. 2 1/2 in. = 1 mi. 28 x 22.8. 14. Plans of Seaport Town: Puerto Mexico (Coatzacoalcos Harbor), Ordnance Survey, 1918. 6 in. = 1/2 mi. 42.5 x 27.

British Admiralty, 1919.

227. GENERAL MAP OF MEXICO. Made especially for Terry's Mexico, 1925. 16° to 32° latitudes N. and 88° to 114° longitudes W. of Greenwich. Capitals, cities and towns (population indicated), railways, steamer routes to and from principal ports. Com., phy., pol., stat., mntd. 1: 6,344,000. 34.6 x 48.5. 1 additional copy on file.

228. [METEOROLOGICAL MAPS OF MEXICO], Servicio Meteorologico Mexicano, ca. 1925. 15° to 32° latitudes N. and 85° to 115° longitudes W. of Greenwich. 15 maps: Isothermals for the year 1922; isothermals for the months of October, November, and December, 1922. Meteor., pol. 15.7 x 22.3. Precipitation and rainfall maps for the year 1922; precipitation and rainfall for the months of October, November, and December. Meteor., pol. Col. 15.7 x 22.3.

Mexico. Secretaria de agricultura y fomento, 1925, back.

229. [METEOROLOGICAL MAPS OF MEXICO], Servicio Meteorologico Mexicano, ca. 1922. 15° to 32° latitudes N. and 85° to 115° longitudes W. of Greenwich. 2 maps: Precipitation for 1922. Meteor. Sha. 14.9 x 23.4. Average rainfall for January 1922. Meteor. 24.9 x 27.4.

Mexico. Secretaria de agricultura y fomento, 1922, no. 1, back.

230. [METEOROLOGICAL MAPS OF MEXICO], Servicio Meteorologico Mexicano, ca. 1925. 15° to 32° latitudes N. and 85° to 115° longitudes W. of Greenwich. 8 maps, 2 each of: Average temperature, February-March. Meteor. Sha. 14.9 x 23.3. Total precipitation, February-March. Meteor. Sha. 14.2 x 23.4. Precipitation of rainfall, February-March. Meteor. Sha. 14.2 x 23.4. Average temperature and precipitation on

the sixth hour, 105° meridian, February-March. Meteor. Sha. 23.6 x 25.9.

Mexico. Secretaria de agricultura y fomento, 1925, nos. 2, 3, back.

231. [METEOROLOGICAL MAPS OF MEXICO], Servicio Meteorologico Mexicano, ca. 1925. 15° to 32° latitudes N. and 85° to 115° longitudes W. of Greenwich. 12 maps, 3 each: Average temperature, April-June. Meteor. Sha. 14.9 x 22.8. Precipitation of rainfall, April-June. Meteor. Sha. 14.8 x 22.7. Total precipitation, April-June. Meteor. 14.8 x 22.7. Temperature and precipitation on the sixth hour, 105° meridian, April-June. Meteor. Sha. 24.1 x 26.6.

Mexico. Secretaria de agricultura y fomento, 1925, nos. 4, 5, 6, back.

232. MURDER MAP OF MEXICO SHOWING THE LOCATION OF 550 KILLINGS OF AMERICANS IN MEXICO AND BY MEXICANS ALONG THE AMERICAN BORDER DURING FOUR PERIODS--NOVEMBER 20, 1910--SEPTEMBER 30, 1919. Made for Joseph T. Annin, under his personal direction, Washington, 1919. 15° to 32° latitudes N. and 86° to 117° longitudes W. of Greenwich. Map accompanied by chart giving authorities used. Com., pol., stat. 18.5 x 27.4.

U. S. Congress. Senate. Committee on foreign relations, 1920, v. 1, f.p. 845.

233. NATURAL REGIONS OF MEXICO, The Geographical Review, 1921. 16° to 32° latitudes N. and 88° to 116° longitudes W. of Greenwich. Coastal plains, desert of Sonora and Lower California, dry northeastern plateau, great central plateau, highlands of Chiapas. Outl. Phy. Sha. 1: 17,500,000. 12.1 x 18.2.

Sanders, 1921, p. 216.

234. OUTLINE MAP OF MEXICO, ca. 1910. 10° to 32° latitudes N. and 87° to 117° longitudes W. of Greenwich. States and territories of Mexico, with their capitals, principal cities and towns, railways. Com., pol. 13.4 x 19.

Galloway, 1910, p. 1050.

235. RAILROAD MAP OF MEXICO, Department of Commerce, Transportation Division, 1925. 14° to 32°45' latitudes N. and 87° to 115° longitudes W. of Greenwich. Com., pol. 2 1/8 in. = 200 mi. 38.4 x 53.4. Inset: Mexico City and vicinity. 18°30' to 20°45' latitudes N. and 95°30' to 100°30' W. of Greenwich. 1 1/4 in. = 40 mi. 13. x 26.

Long, 1925a, f.p. 220.

236. RAILROAD MAP OF MEXICO, General Staff, War College Division, U. S. War Department, Washington, 1915. Reprinted by the Pan American Union, The Eckert Lithographing Co. 14° to 33° latitudes N. and 87° to 117°30' longitudes W. of Greenwich. Cities and towns, railways. Com., phy., pol. Col., mtd. 4 3/8 in. = 200 mi. 79.6 x 110.8. Inset: Enlarged map. State of Mexico and Surrounding Country. 18°30' to 20°50' latitudes N. and 95°30' to 100°30' longitudes W. of Greenwich. 2 5/8 in. = 40 mi. 27 x 54.2.



237. MAP OF THE REPUBLIC OF MEXICO. Capitals, cities and towns, railways, location of Mexican Standard mines in the State of Chihuahua. Com., econ., phy., pol. 20.4 x 20.9.

Mexican standard mining company, 1904, front.

238. A SKETCH MAP OF MEXICO SHOWING THE ROUTE OF THE OLD SPANISH ROAD, A. H. Bumstead, ca. 1923. 15° to 24° latitudes N. and 96° to 110° longitudes W. of Greenwich. Road from San Blas, Nayarit through Guadalajara, Jalisco. Com., phy., pol. 10 x 13.3.

Corey, 1923, p. 230.

239. VEGETATION MAP OF MEXICO, The Geographical Review, 1921. Preliminary map. 16° to 32° latitudes N. and 88° to 116° longitudes W. of Greenwich. Alkaline wastes; deciduous trees; jungle; pine forests; scrub--chiefly agave cactus, mesquite, yucca; tropical rain forests. Outl. Com., econ., pol. Sha. 1: 17,500,000. 12.2 x 18.2.

Sanders, 1921, p. 218.

240. MAP SHOWING WHERE COLLECTIONS WERE MADE DURING THE SUMMER OF 1910 [MEXICO], 1919. 16° to 32° latitudes N. and 94° to 110° longitudes W. of Greenwich. Localities visited by A. S. Hitchcock while collecting grasses in Mexico. Outl. Bot., pol. 11.4 x 10.4.

Hitchcock, 1919, p. 136.

241. MAP OF THE CITY OF MEXICO. Plan of the City of Mexico, authorized for publication with The Mexican Guide, by General Carlos Pacheco, Minister of Public Works, 1885. Plan. Com. 4 1/2 in. = 3,000 ft. 44.2 x 60.7.

Janvier, 1893, front.

242. PLANO GENERAL DEL PROYECTO PARA LOS ALINEAMIENTOS Y DISTRIBUCION DE LAS VUEVAS ATARJEAS DE LA CIUDAD DE MEXICO, Roberto Gayol, "La Europea" Santa Isabel, Mexico, 1895. Plan of the projected drainage of Mexico City. Phy., pol. Col. 1: 7,500. 56.4 x 88.9.

Report of the valley drainage works and sanitation works of Mexico City, 1896, f.p. 8.

243. COMMUNICATIONS BETWEEN MEXICO CITY AND THE ARCHAEOLOGICAL CITY OF TEOTIHOACAN, ca. 1925. Auto roads and railway from Mexico City to Aztec ruins at Teotihuacan. Sketch. Arch., com. 2.6 cm = 10 km. 12.1 x 12.1.

Gamio, 1925, front.

244. MEXICO CITY GROUPS, The Geographical Review, 1921. 16° to 32° latitudes N. and 88° to 116° longitudes W. of Greenwich. Geographical grouping of Mexican cities, population (1910) indicated, 2,000-50,000 and over 50,000. Outl. Pol., stat. 1 1/4 in. = 200 mi. 20.2 x 29.6.

Cushings, 1921, f.p. 242.

245. DESAGÜE DEL VALLE DE MEXICO, Alfredo Martinez, Mexico, 1896. Longitudinal profile of the Tequixquiac Tunnel for the drainage of the Valley and City of Mexico. Pro. Phy. Col., sha. Hor. 1: 20,000, ver. 1: 1,000. 28.4 x 60.3.

Report on the valley drainage work and sanitation works of Mexico City, 1896, f.p. 8.

246. DESAGÜE DEL VALLE DE MEXICO, Alfredo Martinez, Mexico, 1896. Longitudinal profile of the Gran canal for the drainage of the Valley and City of Mexico. Pro. Phy. Col., sha. Hor. 1: 100,000, ver. 1: 1,000. 28.5 x 60.3.

Report on the valley drainage works and sanitation works of Mexico City, 1896, f.p. 8.

247. CARTA HIDROGRÁFICA DEL VALLE DE MÉXICO CONTENIENDO EL TRAZO DEL GRAN CANAL Y TUNEL PARA EL DESAGÜE DEL MISMO VALLE Y DE LA CIUDAD DE MÉXICO, CONFORME AL PROYECTO EN EJECUCION, 1896, Lit. de Salazar, Mexico, 1896. 18°56' to 20°18' latitudes N. and 00°43' E. and 00°15' W. longitudes from Mexico City. Canal and tunnel for the drainage of the Valley and City of Mexico according to a project in operation in 1896. Capital, cities and towns; estates and farms; narrow and wide guage railways. Com., hydro., phy. Mntd., sha. 1: 200000. 76.6 x 52.8.

248. MAP OF THE VALLEY OF MEXICO, ca. 1914. Cities and traditional route of the Aztec in the Valley of Mexico. Outl. Com., ethnog. 14.7 x 9.1.

Joyce, 1914, p. 13.

249. MAP OF THE VALLEY OF MEXICO WITH A PLAN OF THE MEXICAN DEFENCES AND LINE OF U. S. ARMY'S OPERATION, Sherman and Smith, New York, ca. 1853. From the survey of Lieut. M. L. Smith and Brevt. Capt. Hardcastle, U. S. Top. Engrs. Cities and towns, high water line, roads, route of U. S. Army, Mexican works. Com., mil., phy. Sha. 19.9 x 12.4.

Meyer, 1853, f.p. 381.

250. THE WEST COAST OF MEXICO, James M. Darley, ca. 1922. 20° to 32° latitudes N. and 101° to 113° longitudes W. of Greenwich. Cities and towns, railways of western Mexico. Com., pol. 1 9/16 in. = 300 mi. 11.1 x 13.2. Inset: Mexico. 10° to 32° latitudes N. and 92° to 118° longitudes W. of Greenwich. 1 3/16 in. = 500 mi. 10.5 x 10.

Corey, 1922, p. 452.

251. WEST COAST OF MEXICO AND LINES OF SOUTHERN PACIFIC RAILROAD COMPANY OF MEXICO, ca. 1925. Lines in operation and under construction. Outl. Com., pol. 16.1 x 11.5. 1 additional copy on file.

Bell, 1925, back.

252. A SKETCH MAP OF THE WEST COAST OF MEXICO AND THE PENINSULA OF LOWER CALIFORNIA, R. M. Parker, ca. 1919. Cities and towns, railways of the States of Chihuahua, Durango, Sinaloa, and Sonora, and peninsula of Lower California. Com., pol. 2 3/8 in. = 400 mi. 18.2 x 13.2.

Simpich, 1919, p. 310.

253. PLAN OF MITLA RUINS, OAXACA. Mayan ruins at Mitla, State of Oaxaca, southwestern Mexico. Arch. 15.2 x 9.2.

Seler, 1904, f.p. 251.

254. GENERAL PLAN OF THE MITLA RUINS, Charles Grove Johnson, ca. 1904. The ruins of Mitla, Oaxaca. Arch. 3 cm = 100 m. 11 x 20.3. Johnson, 1904, p. 514.

255. [RUINS OF MITLA]. First and second group of ruins at Mitla, Oaxaca. Plan. Arch. 22 x 13.5. Tempisky, 1858, f.p. 250.

256. SKETCH MAP OF THE RUINS OF MITLA, William H. Holmes, 1896. Ruins of Mitla, State of Oaxaca, southwestern Mexico. Arch., phy. 24.3 x 17. Holmes, 1895-97, pt. 2, f.p. 279.

257. PANORAMIC VIEW OF MITLA, William H. Holmes, 1896. View looking west. Group of Catholic establishment, group of the Columns, Arroyo group, Adobe group, South Side group, Fortified Hill, Rio Mitla, Mitla, State of Oaxaca, southwestern Mexico. Arch., phy. 17.8 x 77.5. Holmes, 1895-97, pt. 2, insert pp. 312-313.

258. MAP OF THE MIXTECA COUNTRY, STATES OF OAXACA AND PUEBLA, MEXICO, SHOWING COAL BASINS, IRON-ORE DEPOSITS AND EXISTING AND PROPOSED RAILROADS, ca. 1910. 16° to 19° latitudes N. and 00°30' to 02°30' longitudes E. of Mexico City. Capitals and towns. Com., econ., geol., pol. 1/2 in. = 20 mi. 17.7 x 10.1. Birkinbine, 1910, p. 668.

259. EXPEDITION OF MONTAÑO. Country of Michoacan, west coast of Mexico; illustrates expedition of Montano, 1521. Hist., phy. Sha. 13.2 x 9.4. Bancroft, 1883-87, v. 2, p. 46.

260. SKETCH MAP OF MONTE ALBAN AND VICINITY, William H. Holmes, 1896. Great Plaza occupying middle portion of the main summit of Monte Alban, two pyramid-crowned terraces, crest of the Lesser Alban, outer quadrangle of lesser ridge, State of Oaxaca, southwestern Mexico. Arch., phy. Sha. 1 in. = 1 mi. 12.1 x 10.9. Holmes, 1895-97, pt. 2, p. 210.

261. PANORAMIC VIEW OF SUMMIT REMAINS, MONTE ALBAN, William H. Holmes, 1896. View of Monte Alban from Lesser Alban looking west. Main Southern Terrace and Pyramids, Great Plaza, Central Group of Pyramids. Spur with Ruins, the Lesser Alban, city of Oaxaca, hills covered with ruins, State of Oaxaca, southwestern Mexico. Arch., phy. Sha. 16.6 x 47.4. Holmes, 1895-97, pt. 2, f.p. 226.

262. PANORAMIC VIEW OF SUMMIT REMAINS, MONTE ALBAN, William H. Holmes, 1896. View of Ruins looking north, State of Oaxaca, southwestern Mexico. Arch., phy. Sha. 33.3 x 68.7. Holmes, 1895-97, pt. 2, insert pp. 226-227.

263. SKETCH-MAP OF SUMMIT REMAINS OF MONTE ALBAN, William H. Holmes, 1896. Main Southern Terrace with Pyramids, Grand Plaza, Central Group of Pyramids, Eastern Range of Pyramids, Western Range of Pyramids, Great Northern Group of Pyramids, State of Oaxaca, southwestern Mexico. Arch., phy. 1 in. = 200 ft. 15.9 x 42.7.

Holmes, 1895-97, pt. 2, inset pp. 226-227.

264. MAP OF NATIONAL RAILWAYS OF MEXICO AND OPERATED LINES (GOVERNMENT ADMINISTRATION), Department of Commerce, Transportation Division, 1925. No. 889. 14° to 31°45' latitudes N. and 06° E. to 06° W. longitudes from Mexico City. Independent, national railways and railways operated by Mexican Free Ports Commission. Com., pol. 1 5/8 in. = 200 mi. 34.3 x 22.9.

Long, 1925a, f.p. 33.

265. MINING REGIONS OF NAYARIT AND JALISCO IN NAYARIT MOUNTAINS. Courtesy of The Engineering and Mining Journal, ca. 1922. Location of silver mines on border line and in States of Jalisco and Nayarit; railways and roads. Com., econ., pol. 1 in. = 12.6 mi. 7.1 x 8.5.

Payne, 1922, p. 10.

266. NEW SPAIN AS KNOWN TO THE CONQUERORS IN 1521. 15°15' to 22°45' latitudes N. and 94° to 104° longitudes W. of Greenwich. The Mexican Empire, its cities and tribes prior to Spanish colonization. Hist., phy. 2 in. = 150 mi. 17.7 x 23.8.

Bancroft, 1883-87, v. 1, f.p. 1.

267. NEW SPAIN DURING THE SIXTEENTH CENTURY. 15°15' to 28° latitudes N. and 86° to 116° longitudes W. of Greenwich. The states and cities of Mexico as explored and settled by the Spaniards in the sixteenth century. Hist., pol. 1: 7 300 000. 21 x 41.

Bancroft, 1883-87, v. 2, f.p. 1.

268. MAP OF NEW SPAIN UNDER THE VICEROYS. 14° to 38° latitudes N. and 84° to 122° longitudes W. of Greenwich. States and territories of Mexico under the rule of the Viceroy, seventeenth century. Outl. Hist. 1: 7 300 000. 24.9 x 46.1.

Bancroft, 1883-87, v. 3, front.

269. MAP TO ILLUSTRATE A JOURNEY TO THE NORTH WESTERN PROVINCES OF MEXICO; BY CH. SEVIN, ESQR., 1856, John Arrowsmith, J. Murray, 1860. 22° to 28° latitudes N. and 104° to 112° longitudes W. of Greenwich. Capitals, cities, route taken by Ch. Sevin on his travels in the Mexican states of Cinaloa (Sinaloa), Sonora, and Zalisco (Jalisco) in 1856. Com., phy., pol. Sha. 1 1/2 in. = 80 mi. 21.7 x 22.4.

Sevin, 1860, f.p. 1.

270. SKETCH MAP OF PALENQUE, William H. Holmes, 1896. Plan of the ruins of Palenque, Usumasinta River, State of Tabasco, eastern Mexico. Arch., phy. 1 in. = 100 ft. 17.8 x 16.6.

Holmes, 1895-97, pt. 2, f.p. 208.

271. GENERAL PLAN OF THE RUINS OF PALENQUE, F. Catherwood, ca. 1841. Ruins of Palenque, State of Tabasco, Mexico. Arch. 1 1/4 in. =

1,000 ft. 8.8 x 14.5.

Stephens, 1841, v. 2, f.p. 337.

272. PANORAMIC VIEW OF PALENQUE, William H. Holmes, 1896. Palace, Temple of Inscriptions, Temple of the Beau Relief, Temple of the Cross, Temple of the Cerro, Temple of the Sun; opening of waterway, washed opening into waterway; upper end of waterway, Usumasinta River, eastern Mexico. Arch., phy. Sha. 31 x 63.5.

Holmes, 1895-95, pt. 2, f.p. 209.

273. PARRAL MINING DISTRICT, STATE OF CHIHUAHUA, MEXICO, ca. 1904. Mines, railways, roads in the Parral Mining District. Com., econ., phy. Sha. 21.4 x 16.9.

Mexican standard mining co., 1904.

274. PART OF MEXICO, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE EXISTING AND PROJECTED RAILROADS, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. 14°35' to 18°50' latitudes N. and 92° to 95°20' longitudes W. of Greenwich. Proposed extensions, surveys and proposed surveys. Com., pol. Col. 1: 600,000. Elevations in feet. 76.8 x 60.2.

275. PART OF MEXICO, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE EXISTING AND PROJECTED RAILROADS, Intercontinental Railway Commission, A. Hoen and Co., Lith., 1898. Map No. V. 15°40' to 19°20' latitudes N. and 94°20' to 97° longitudes W. of Greenwich. Boundaries (partly in dispute); proposed location of Intercontinental Railway, surveys made and projected, railways in operation and projected. Com., pol. Col. 1: 600,000. 67.8 x 47.9.

276. PEREGRINACION DE LOS AZTECAS EN EL VALLE DE ANAHUAC, Antonio Garcia Cubas, ca. 1884. Peregrination of the Aztecs, Aztec towns in Valley of Anahuac. Outl. Com., ethnog., phy. Sha. 4 cm = 15 km. 17.5 x 10.8.

Cubas, 1884, f.p. 353.

277. PLANO TOPOGRAFICO DE LA PLAZA DE LA CONSTITUCION Y DE SUS IMMEDIACIONES, Edm. de la Portilla, Mexico, 1913. Topographical plan of the Central Square of La Constitucion and surroundings, showing archaeological finds to date (1913). Sketch. Arch. 1: 8000. 19 x 11.9.

Gamio, 1917, f.p. 369.

278. DENSITY OF POPULATION (1910), F. A. Godoy, ca. 1911. 15° to 32° latitudes N. and 13° E. and 18° W. of longitudes from Mexico City. Density of population from 3 to 50 inhabitants per square kilometer; location of state capitals. Pol., stat. Col. 12.7 x 19.2. Inset: Area of Mexico compared with that of the British Isles. 6.2 x 8.1.

Pan American Union, 1911, f.p. 52.

279. MAP OF ROUTES TO THE PRINCIPAL MINING DISTRICTS IN THE CENTRAL STATES OF MEXICO, Sidney Hall, Engr., Henry Colburn, 1828. 18° to 25° latitudes N. and 95° to 105° longitudes W. of Greenwich. Principal cities and towns, rivers, routes to the principal mining districts in

the central states of Mexico. Com., econ., phy., pol. Sha. 5.2 cm = 25 le. 40.2 x 55.

Ward, 1829, v. 2, back.

280. DISTRIBUTION OF PRINCIPAL NATIONS AFTER 1300 A.D., ca. 1908. Distribution of Huasteca, Huave, Maya, Mexicanos, Misteca, Otomi, Tarasco, Zapoteca races after 1300 A.D. Ethnog., hist. 10.4 x 15.2.  
Gadow, 1908, f.p. 297.

281. DISTRIBUTION OF PRINCIPAL NATIONS BEFORE 1000 A.D., ca. 1908. Distribution of the Maya, Misteca, Nahoá, Otomi, Tarasco, Zapoteca races prior to 1000 A.D. Ethnog., hist. 10.4 x 15.2.  
Gadow, 1908, p. 296.

282. SKETCH MAP SHOWING LOCATION OF THE PROPOSED PUEBLA & PACIFIC R. R., MEXICO, Engineering News, New York, ca. 1911. Route of proposed Puebla and Pacific Railway from Puebla, State of Puebla to Pacific coast, State of Oaxaca; other railways. 13.8 x 6.6.  
Roberts, 1911, p. 287.

283. PUERTO MEXICO (COATZACOALCOS HARBOR), U. S. Hydrographic Office, Washington, 1908. No. 2478, 8th ed., Dec. 1922. (Corrected through Notice to Mariners, No. 39, Sep. 27, '24, Hydrographic Office, Navy Department.) 18°07'20" to 18°10'25" latitudes N. and 94°23'45" to 94°25'30" longitudes W. of Greenwich. East coast of Mexico. Coatzacoalcos Harbor, navigation lights, plan of Puerto Mexico, railways, breakwaters, tides, existing and projected warehouses. Com., hydro. Col. 6 in. = 1,000 yds. Soundings in feet, reduced to plane of low water. 95.2 x 56.3. 7 photostatic copies (1 mntd.) on file, 4 maps 41.1 x 24x8, 3 maps 49.4 x 29.6. Scale applies to original only.

284. AVERAGE ANNUAL RAINFALL, The Geographical Review, 1921. Diagrammatic map of mean annual rainfall in Mexico. Outl. Meteor. Sha. 4 x 5.9.  
Sanders, 1921, p. 213.

285. AVERAGE ANNUAL RAINFALL, The Geographical Review, 1921. Preliminary map. Based on all the data which were available in 1919 in the files of the U. S. Weather Bureau. 15° to 32° latitudes N. and 88° to 117° longitudes W. of Greenwich. Outl. Meteor., pol. Sha. 3/4 in. = 200 mi. 12.2 x 18.2.  
Huntington, 1921, p. 255.

286. MAP SHOWING THE ANNUAL RAINFALL BY MONTHS, ca. 1919. 12 maps indicating average rainfall in millimeters by months. Outl. Meteor., pol. 3.4 x 4.9.  
Hitchcock, 1919, pp. 134-135.

287. MAP SHOWING THE ANNUAL RAINFALL (IN MILLIMETERS) FOR SEVERAL STATIONS IN MEXICO, ca. 1919. Location of stations. Outl. Meteor., pol. 6.9 x 10.  
Hitchcock, 1919, p. 133.

288. MAP SHOWING THE DISTRIBUTION OF THE ANNUAL RAINFALL ( IN INCHES), ca. 1919. Rainfall increases toward the south and reaches a maximum in the Isthmus of Tehuantepec. Yucatan is drier. Outl. Meteor., pol. 8 x 10.8.

Hitchcock, 1919, p. 132.

289. MAP SHOWING SACRED PLACES VISITED BY THE HUICHOLO INDIANS. Northwestern Mexico. Line of the Mexican Central Railway. Arch., com., ethnog. 17.5 x 25.3. 5 photostatic copies on file.

Lumholtz, 1902, v. 2, pp. 176-177.

290. PLANO DE CASTILLO DE SAN JUAN DE ULUA. Taken from Sr. Lerdo de Tejada, La Heroica Ciudad de Veracruz, v. 1, insert pp. 148 and 149. Architectural plan of the fortress of San Juan de Ulúa, harbor of Vera Cruz, latter half of seventeenth century. Plan. 5.2 cm = 100 m. 15.5 x 20.1.

La Republica Mexicana, 1912, p. 11.

291. PANORAMIC VIEW OF SAN JUAN TEOTIHUACAN, William H. Holmes, ca. 1897. Panoramic view, looking south, of Pyramid of the Moon, Pyramid of the Sun, Court of the Battered Goddess, Pathway of the Dead, Citadel, course of Rio San Juan, location of San Juan village near Mexico City. Arch., phy. 29.3 x 41.3.

Holmes, 1895-97, pt. 2, f.p. 298.

292. SALINA CRUZ AND VICINITY, ca. 1922. Railway from Salina Cruz to La Chirela via San Geronimo, and from San Geronimo to Reforma via Juchitan. Com., phy. 10.7 x 16.1.

Kamer Al-Shimas, 1922, f.p. 28.

293. PORT OF SALINA CRUZ, U. S. Hydrographic Office, Washington, 1907. No. 2424, 12 ed., Nov. 1925. (Corrected through Notice to Mariners, No. 51 Dec. 19, 1925, Hydrographic Office, Navy Department.). 16°09'18" to 16°10'30" latitudes N. and 95°11'30" to 95°12'25" longitudes W. of Greenwich. Breakwater and lighthouses, plan of Salina Cruz, railways and warehouses, west coast of Mexico. Com., hydro. 1: 2989. Soundings in feet. 77.6 x 57. 7 reduced photostatic copies (4 mntd.) on file: 4 maps, 43.1 x 35. 3 maps, 49.8 x 38.4.

294. CHART OF THE ROADSTEAD OF SALINA CRUZ, the Hydrographic Party under command of Alfred Hopkins, Tehuantepec Expedition, 1871. Hydrography by Lieut. C. B. Gill, U. S. N. 16°05' to 16°28' latitudes N. and 94°52' to 95°27' longitudes W. of Greenwich. Soundings of roadstead, types of bottom, proposed breakwater, Salina Cruz, State of Oaxaca, Pacific coast of Mexico. Com., hydro., phy. Mntd., sha. 1: 10,000. 44.2 x 63.4.

295. SANTA CRUZ DEL QUICHE, F. Catherwood, J. H. Colen, Sc., ca. 1841. The ruins of Santa Cruz del Quiche, Mexico. Fortress, palace, and Palace of Sacrifice, small stream. Arch., phy. 8.4 x 11.4.

Stephens, 1841, v. II, f.p. 171.

296. MAP DE LA SIERRA GORDA Y COSTAS DEL SENO MEXICANO, 1873. 21° to 29° latitudes N. and 271° to 277° longitudes E. of Madrid.

Copy of old Spanish map of Colony of New Santander and its Jurisdictions settled by Don Joseph de Escandon, Count of the Sierra Gorda, in what are now the States of Coahuila, Nueva Leon, San Louis Potosi, and Tamaulipas, northeastern Mexico. Early Spanish cities, missions, towns, and villages. Com., hist., pol. 1.3 cm = 10 le. 23.2 x 17.4.

Le Republica Mexicana, 1910, p. 4.

297. SONORA, J. Besson, Paris, ca. 1908. 26° to 32°30' latitudes N. and 09°30' to 16° longitudes W. of Mexico City. Estates, hamlets, highways and mule trails, industrial centers, large and small farms, mines, ports of coastal trade, postoffices, railway stations, railways projected and under construction, towns of 1,000 - 3,000 inhabitants and villages. Com., econ., phy., pol. Col., sha. 6 cm = 150 km. 32 x 26.

La Republica Mexicana, 1908, front.

298. CARTA BIOLOGICA DEL ESTADO DE SONORA, Dirección de Estudios Biológicos, Tallers Graficos de la Nacion, Mexico City. Department of the State of Sonora and their animal, vegetable, and mineral products. Outl. Econ., pol. 89.4 x 65.6.

299. SOUTHERN MEXICO, REGIONS WITH WHICH CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE CULTIVATION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division No. 2409, ca. 1926. 14° to 22° latitudes N. and 88° to 97° longitudes W. of Greenwich. Limits of Hevea region, railways, rivers, towns, and villages. Com., econ., pol. 1 1/4 in. = 100 mi. 17.6 x 21.

Treadwell, 1926, f.p. 23.

300. A MAP OF SOUTHERN MEXICO, A. H. Bumstead, ca. 1927. 15°30' to 22°15' latitudes N. and 93°45' to 101°30' longitudes W. of Greenwich. Capital, cities and towns, railways of Oaxaca and neighboring states of southern Mexico. Com., phy., pol. 1 7/8 in. = 200 mi. 12 x 13.1.

Corey, 1927, p. 504.

301. MAP OF SOUTHERN MEXICO, H. A. Horsfall, The Engineering and Mining Journal, New York, 1909. 16° to 20° latitudes N. and 94° to 100° longitudes W. of Greenwich. Principal cities and towns, lakes and rivers, railways and roads. Com., phy., pol. 2 3/8 in. = 100 mi. 16.8 x 25.4.

Horsfall, 1909, p. 667.

302. SKETCH-MAP OF SOUTHERN MEXICO TO SHOW PLACES VISITED BY THE AUTHOR [Hans Gadow], ca. 1908. Outline of route taken by Hans Gadow, 1908, through southern Mexico. Outl. Com. 14.2 x 23.7.

Gadow, 1908, f.p. 1.

303. SOUTHERN PACIFIC RAILROAD OF MEXICO AND CONNECTING ROADS OF OTHER SYSTEMS, Department of Commerce, Transportation Division, 1925. No. 1129. Southern Pacific Railroad of Mexico and connecting roads: Kansas City, Mexico and Orient Railroad; Manzanillo Port Works Railway; Mexican Northwestern Railway; Mexican Union Railway Co.; Nacozari Railroad; proposed Naco-to-Guzman Railway; proposed Tepic-San Blas



Railroad; Rio Mayo Railway; Western Railway of Mexico. Com., pol.  
2 3/4 in. = 200 mi. 37.5 x 22.8.  
Long, 1925a, f.p. 180.

304. PLANTA Y CORTE DEL SUBSUELO DE LA CASA NO. 22 DE LA 1ª CALLE DE STA. TERESA, E. de la Portilla, Mexico, 1913. Plan and cross-section of the sub-soil of house No. 22 First St., Santa Teresa, Mexico. Sketch. Arch. 19.2 x 35.4.  
Gamio, 1917, f.p. 368.

305. TAMAULIPAS, J. Besson, Paris. 22°10' to 27°40' latitudes N. and 02°20' E. to 01° W. longitudes from Mexico City. State capital, cities, ports, towns, and villages; estates, farms, hamlets, mines, navigable rivers, railways and stations, cart roads and mule trails. Com., phy., pol. Col., mntd. 7.1 cm = 100 km. 23.2 x 25.7.

306. TAMPICO HARBOR, U. S. Hydrographic Office, Washington, 1897. From surveys to 1898 by the Mexican Central Railway Co. with additions from other sources. No. 1577, 26th ed., October 1922. (Corrected through Notice to Mariners, No. 44, Oct. 31, '25, Hydrographic Office, Navy Department). 22°12' to 22°18' latitudes N. and 97°47' to 97°54' longitudes W. of Greenwich. Gulf of Mexico, Tampico Harbor. Navigation lights, tides, plans of La Barra and Tampico, with connecting railways and roads. Com., hydro. 1: 18,241. Soundings in fathoms. 62.7 x 80.7. Insets: 1. Panuco River. From sketch by U. S. S. Dolphin, 1914. 22° to 22°20' latitudes N. and 97°50' to 98°20' longitudes W. of Greenwich. 3 5/8 in. = 15 mi. Soundings in feet. 14.4 x 20. 2. Lobos Island. From U. S. Naval Survey in 1914. 21°27' to 21°30' latitudes N. and 97°11'30" to 97°14'15" longitudes W. of Greenwich. 1: 24,321. Soundings in fathoms. 24.7 x 24.8.

307. PUERTO DE TAMPICO, H. Demoulin, Sc. Course of the Panuco River from La Barra on the Gulf of Mexico to Tampico. Plats of La Barra and Tampico, State of Tamaulipas; railways, roads. Sketch. Com. 7.8 cm = 4 km. 15.2 x 20.  
La República Mexicana, 1910, p. 44.

308. TAMPICO TO PROGRESO, U. S. Hydrographic Office, Washington, 1902. No. 2056, 45th ed., Dec. 1924. From surveys by U. S. S. Wyoming, 1873-74, U. S. S. Fortune, 1874, and survey of Bay of Campeche by the British Admiralty, 1844. 18° to 24° latitudes N. and 89°30' to 98°10' longitudes W. of Greenwich. East coast of Mexico. Beacons, types of bottom, navigation lights, railways and towns. Com., hydro., phy. 1: 909, 659. Soundings in fathoms, elevations in feet. 76.4 x 102. 6 photostatic copies on file. 3 copies, 40.2 x 43.3; 3 copies (2 mntd.), 31.6 x 40.2.

309. FROM TARIFA TO THE ATRAFESADO MTN. BY WAY OF TIERRA BLANCA AND CHICAPA VALLEY, 1871. Profile No. 6, Tehuantepec Expedition. Survey for a ship-canal. Pro. Com., phy. Mntd. Hor. 1: 60000, ver. 1: 2400. 52.2 x 98.2.

310. FROM TARIFA TO THE CORTE RIVER, BY WAY OF COPRADA AND STA. MARIA, 1871. Profile No. 1, Tehuantepec Expedition. Survey for a

ship-canal. Pro. Com., phy. Mntd. Hor. 1: 60000, ver. 1:2400.  
31.8 x 130.9.

311. FROM TARIFA TO THE CORTE RIVER, BY WAY OF THE FEEDER ROUTE, 1871. Profile No. 2, Tehuantepec Expedition. Obtained from points of Profile No. 1, from measured slope angles, side levels and barometrical observations. Survey for a ship-canal. Pro. Com., phy. Mntd. Hor. 1: 60000, ver. 1: 2400. 32 x 94.5.

312. FROM TARIFA TO THE UPPER LAGOON, BY WAY OF TARIFA PASS, 1871. Contributed by the Mexican Commissioners. Profile No. 4, Tehuantepec Expedition. Survey for a ship-canal. Pro. Com., phy. Mntd. Hor. 1: 60000, ver. 1: 2400. 32 x 71.2.

313. CROQUIS DE LA PARTE DESTROIDA DE LA CIUDAD DE TEHUANTEPEC, Pedro C. Sanchez and Manuel Rangel, Mexico, 1897. Sketch of the portion of the city of Tehuantepec destroyed by earthquake in 1897. Plan. Pho. 34.4 x 28.2.

Sanchez and Rangel, 1897, f.p. 22.

314. TEHUANTEPEC--ITS RELATION TO MEXICO, Russel and Struthers, Engr., New York, ca. 1880. 15° to 33° latitudes N. and 86° to 115° longitudes W. of Greenwich. Existing railways in 1879; Tehuantepec Interocean Railroad. Com., phy., pol. Col. 16.8 x 21.8.  
Anderson, 1880, f.p. 47.

315. THE ISTHMUS OF TEHUANTEPEC, Russel and Struther, Engr., New York, ca. 1880. 16° to 19° latitudes N. and 02°15' to 07°15' longitudes E. of Mexico City. Atlantic Plains, mountainous district, Pacific Plains, route of Tehuantepec Railroad. Com., phy., pol. Col. 17.4 x 24.1.  
Anderson, 1880, f.p. 19.

316. MAP OF THE ISTHMUS OF TEHUANTEPEC, EMBRACING ALL THE SURVEYS OF THE ENGINEERING AND HYDROGRAPHIC PARTIES AND SHEWING THE PROPOSED ROUTE OF THE TEHUANTEPEC RAILROAD, Chas. C. Smith, Sarony and Major, Lith., New York, ca. 1851. Survey under the direction of Maj. J. G. Barnard, U. S. Engrs., Chief Engineer. Entered according to Act of Congress in the year 1852 by B. Fallon, Sect., Tehuantepec Railroad Co. of New Orleans in the Clerk's office in the State of Louisiana, Southern District of New York. 16°05' to 18°25' latitudes N. and 94°33'50" longitude W. of Greenwich. Lines proposed and surveyed. Com., phy. Sha. 1 in. = 21,500 ft. 103.2 x 66.2. Inset: Profile of the Rail Road route from Minatitlan to La Ventosa. Elevation of grade line above high tide of La Ventosa. 3.4 x 64.4.

317. MAP OF THE ISTHMUS OF TEHUANTEPEC, EMBRACING ALL THE SURVEYS OF THE ENGINEERING AND HYDROGRAPHIC PARTIES AND SHOWING THE PROPOSED ROUTE OF THE TEHUANTEPEC SHIP CANAL, ITS FEEDER AND HARBORS, 1871. 16°05' to 18°25' latitudes N. and 94°25' longitude W. of Greenwich. Lines explored and surveyed by the Tehuantepec Expedition. Huts, plantations, roads, settlements, towns, and villages. Com., hydro., phy. Sha. 1: 250,000. 106.7 x 56.9.

318. MAP SHOWING THE ROUTE FOR SUPPLYING WATER THE SUMMIT LEVEL OF THE TEHUANTEPEC SHIP CANAL, 1871. Survey of the Tehuantepec Expedition.  $16^{\circ}38'30''$  to  $16^{\circ}57'30''$  latitudes N. and  $94^{\circ}30'$  to  $95^{\circ}02'30''$  longitudes W. of Greenwich. Com., phy. Mntd., sha. 1: 60,000. 60.8 x 99.3.

319. MAP OF THE ISTHMUS OF TEHUANTEPEC SHOWING THE LINES OF WAGON ROAD, TELEGRAPH AND RAILROAD PROPOSED TO BE CONSTRUCTED UNDER THE LA SERE GRANT. 1868, The New York Lithographing, Engraving and Printing Co., New York, 1868. Entered according to Act of Congress in the year 1868 by the Tehuantepec Railway Co. in the Clerk's Office of the District Court of the United States for the Southern District of New York. Cities and towns, proposed railways, wagon road and telegraph. Com., phy. Col. 2 in. = mi. 23.3 x 40.5.  
Tehuantepec railway company, 1869, f.p. 51.

320. PLAN OF THAT PART OF THE ISTHMUS OF TEHUANTEPEC, BETWEEN THE JALTEPEC RIVER AND THE PACIFIC PLAINS; EMBRACING ALL OF THE ENGINEERING DIFFICULTIES ON THE ROUTE OF SURVEY, Endicott and co., Lith., ca. 1851. Entered according to Act of Congress in the year 1852 by B. Fallon, Sect., Tehuantepec Railroad Co. of New Orleans in the Clerk's office of the District Court of the Eastern District of Louisiana.  $16^{\circ}35'$  and  $17^{\circ}30'$  latitudes N. and  $95^{\circ}09'38''$  longitude W. of Greenwich. Com., phy. Mntd., sha.  $2 \frac{7}{8}$  in. = 5 mi. Inset: Profile on the Line as Surveyed 1851. Hor. 1 in. = 10,000 ft., ver. 1 in. = 400 ft. 5.4 x 94.

321. GEOLOGICAL MAP OF THE ISTHMUS OF TEHUANTEPEC, J. C. Spear, T. Sinclair and Son, Lith., Philadelphia, 1871.  $16^{\circ}10'$  to  $18^{\circ}10'$  latitudes N. and  $00^{\circ}$  to  $00^{\circ}45'$  longitude W. of Washington. Alluvium, asphaltum and petroleum, calcareous tufa, granulite, hypersthene, Jasper, kaolin, porphyry and syenite, sandstone, shale (above) and gneiss (below), tertiary limestone, trachyte. Phy. Col. 25 x 17.9.  
U. S. Navy department, 1872, back.

322. PLANO GEOLOGICO DE LA PARTE AUSTRAL DEL ISTMO DE TEHUANTEPEC, AÑO 1843, F. P. Becker and Co., Engr., London, 1843. Geological plan of the southern region of the Isthmus of Tehuantepec. Com., geol., phy. Col. 1: 500,000. 24.2 x 19.7.  
Garay, 1844, front.

323. PLANO DE LA PARTE AUSTRAL DEL ISTMO DE TEHUANTEPEC DESDE LA COSTA DE OCEANO PACIFICO HASTA LA LLANURA DEL COATZACOALCOS, F. P. Becker and Co., Engr., London, 1843.  $15^{\circ}55'$  to  $17^{\circ}05'$  latitudes N. and  $00^{\circ}15'$  E. and  $00^{\circ}45'$  W. longitudes from Juchitan. Plan of the southern part of the Isthmus of Tehuantepec from the coast of the Pacific Ocean to the Plains of Coatzacoalcos. Capitals, estates, small farms, isolated habitations, foot paths, mail route, settlements, towns, trigonometrical points (1st, 2nd, and 3rd class). Com., hydro., phy. Mntd., sha. 1: 250,000. 52.8 x 42.9. Inset: Proyeccion Vertical Sobre un Plano Perpendicular al Meridiano. Altitude to distance 6: 1. 9.2 x 41.3.

324. AVERAGE MONTHLY TEMPERATURES, The Geographical Review, 1921. 2 diagrammatic maps of mean monthly temperatures in Mexico in January and July. Outl. Meteor. Sha. 4 x 5.9. Sanders, 1921, p. 214.

325. MEAN ANNUAL TEMPERATURE, The Geographical Review, 1921. Preliminary map. Based almost entirely on the map by P. P. Calvert in F. D. Godman (edit.): Biologia Centrali-Americana, Zoology, v. Neuroptera (Odonata), London, 1892-1908. The data on which this map was based were published in the Monthly Weather Rev., v. 36, 1908, pp. 93-97. 15° to 32° latitudes N. and 88° to 117° longitudes W. of Greenwich. Outl. Meteor., pol. Sha. 3/4 in. = 200 mi. 12.2 x 18.2. Huntington, 1921, p. 254.

326. LOCALIZACION DE 16 EXCAVACIONES EN TEOTIHUACAN. Map of excavations, Teotihuacán, Mexico. Sketch. Arch., com. 11 x 19. Gamio, 1917, p. 365.

327. CHART OF THE SHORE LINE FROM TONALA TO BARILLA, by the Hydrographic Party under command of N. H. Farquhar, Tehuantepec Expedition, 1871. Shore line by E. W. Henricks and J. M. Miller; soundings by U. S. Steamer Mayflower, E. W. Henricks commanding. 18°06'25" to 18°19'45" latitudes N. and 94°03'25" to 94°34'30" longitudes W. of Greenwich. Hydro., phy. Mntd., sha. 1: 60000. 41.5 x 93.3.

328. SUGGESTED COMMERCIAL TRAVELER'S ROUTES IN MEXICO, Hector Lazo, 1925. Commercial traveler's route in Mexico. Com. Mim. 20.4 x 32. Lazo, 1925a, p. 3.

329. MAP TO ILLUSTRATE CARL LUMHOLTZ'S TRAVELS IN MEXICO, Matthews-Northrup Works, Buffalo, ca. 1902. 16° to 32° latitudes N. and 91° to 113° longitudes W. of Greenwich. Capitals, operating and projected railways, route traveled, ranches visited, towns, and villages. Com., phy., pol. Col. 1 in. = 100 mi. 32.4 x 38. 4 photostatic copies file. Scale applies to original only. Lumholtz, 1902, v. 1, back.

330. THE TRIBES OF MEXICO ACCORDING TO GROZCO Y BERRA AND THE BEST KNOWN RUINS, H. B. Lloyd, The Matthews-Northrup Works, Buffalo, 1902. 15°20' to 32°20' latitudes N. and 92° to 112° longitudes W. of Greenwich. Regions occupied by the Cora, Huichol, Pima Bajo, Tarahumare, Tarasco, Tepecano, Tepehuane, and Tubar tribes; ruins. Route traveled by Carl Lumholtz. Arch., com., ethnog., pol. Col. 1 in. = 100 mi. 32.7 x 38.3.

Lumholtz, 1902, v. 2, f.p. 488.

331. CHART OF THE UPPER LAGOON, the Hydrographic Party under command of Alfred Hopkins, Tehuantepec Expedition, 1871. Hydrography by C. B. Gill. 16°11' to 16°28' latitudes N. and 94°52' to 95°14' longitudes W. of Greenwich. Huts, towns, and roads of country surrounding Upper Lagoon. Com., hydro., phy. Mntd., sha. 1: 60000. Soundings in feet. 54.7 x 68.

332. RECONNAISSANCE OF THE USPANAPA RIVER, the Hydrographic Party under command of Lieut. Commr. Norman H. Farquhar, U. S. N., Tehuantepec Expedition, 1871. Survey of Uspanapa River, tributary of Coatzacoalcos. Banks, huts, ponds, tributaries. Com., hydro., phy. Mntd., sha. 1: 60000. Soundings in feet. 44 x 62.

333. MAP OF THE RIVER USPANAPA, TO THE PLAYA DEL TIGRE, J. Mc. L. Murphy, Sarony and Major, Lith., New York, 1851. Entered according to Act of Congress in the year 1852 by B. Fallon of New Orleans, Sect., Tehuantepec Railroad Co. in the Clerk's Office of the District Court for the Engineering District of Louisiana. Tehuantepec Railway Survey. Regions producing cedar, guapaque, mahogany, oranges, India rubber, sapote, sarsaparilla, and vanilla. Com., econ., hist., hydro., phy. Mntd., sha. 1 in. = 6000 ft. Soundings in feet. 66.8 x 79.1. Insets: 1. Map of the Tancochapa River, from the Hacienda of San José to La Isla de Xucuapa. 1 in. = 3000 ft. 20.3 x 40.4. 2. Map of the Village of Mina-titlan, surveyed and drawn by Chas. C. Smith. 1 in. = 300 ft. Soundings in feet, reduced to lowest stage. 21.8 x 28.7.

334. PANORAMA OF UXMAL, William H. Holmes, ca. 1895. View of Ruins of Uxmal, State of Yucatan. Arch., phy. 27.6 x 65.2. Holmes, 1895-97, pt. 1, insert pp. 96-97.

335. RUINS OF UXMAL, William H. Holmes, ca. 1895. Sketch of the Ruins of Uxmal, State of Yucatan. Arch., phy. 23.7 x 16.3. Holmes, 1895-97, pt. 1, insert pp. 96-97.

336. GENERAL PLAN OF THE RUINS AT UXMAL, F. Catherwood, 1841 and 1842. Plan of Mayan ruins at Uxmal, State of Yucatan. Arch., phy. 1 3/4 in. = 500 ft. 12.9 x 18.2. Stephens, 1843, v. 1, f.p. 165.

337. PLAN OF A LARGE STONE BUILDING AT UXMAL IN YUCATAN, F. Catherwood, ca. 1841. The ground-plan of the Casa del Gobernador, with the three ranges of terraces on which it stands. Arch., phy. 3 in. = 300 ft. 11.1 x 16.8. Stephens, 1841, v. 2, f.p. 428.

338. THE NUNNERY QUADRANGLE AT UXMAL, ca. 1930. Plan of Mayan ruins at Uxmal, Yucatan; contours of surrounding country. Plan. Arch., phy. 1 in. = 150 ft. 7.6 x 11.4. Merrill, 1930, p. 1.

339. VERACRUZ, J. Besson, Paris, ca. 1912. 17° to 23° latitudes N. and 00°15' to 05°40' longitudes E. of Mexico City. State capital, cities, towns and villages, hamlets, farms, mines, ports, railways, railway stations, roads. Com., econ., phy., pol. Col. 6.3 cm = 100 km. 39.8 x 28.2. Insets: 1. Plano de la Ciudad y Puerto de Veracruz. 3 cm = 1,500 m. 10.3 x 14.9. 2. Plano de la Ciudad de Xalapa. 3 cm = 1,500 m. 8.5 x 12.5. La República Mexicana, 1912, front.

340. APPROACHES TO VERA CRUZ AND ANTON LIZARDO ANCHORAGE, U. S. Hydrographic Office, Washington, 1916. No. 2606, 6th ed., Nov. 1923.

(Corrected through Notice to Mariners, No. 47, Nov. 21, 1925, Hydrographic Office, Navy Department). 18°58'30" to 19°25' latitudes N. and 95°46' to 96°11' longitudes W. of Greenwich. East coast of Mexico. Types of Bottom, navigation lights, plan of Vera Cruz, railways and roads. Com., hydro. 1: 56,797 at latitude 19°10'. Soundings in fathoms, elevations in feet. 89.3 x 82.

341. CARTA DE LOS FONDEADEROS DE VERA CRUZ, ISLA VERDE, SACRIFICIOS Y ANTON LIZARDO, Lit. de Salazar, ca. 1839. 19° to 19°15' N. latitudes and 98°09' to 98°39' longitudes W. of Paris. Reduced copy of map ordered made by Rear Admiral C. Bandin, commander of the French Navy in the Gulf of Mexico, April and May, 1839, giving direction for entering the harbor of Vera Cruz. Hydro., phy. 18.1 x 27.4.  
La República Mexicana, 1912, p. 19.

342. INTENDENCIA DE VERA CRUZ. 19° to 23° latitudes N. and 275° to 282° longitudes E. of Madrid. Reduced copy of old map of seventeenth century of early Spanish settlement at Vera Cruz, eastern coast of Mexico. Hist. 15 x 20.  
La República Mexicana, 1912, p. 12.

343. WARD LINE MEXICAN SOUTHERN RY. CONNECTING AT PUEBLA WITH MEXICAN & INTEROCEANIC R'YS. TO AND FROM VERA CRUZ, American Bank Note Co., New York. Mexican Southern Railway from the city of Puebla, Puebla to the city of Oaxaca, Oaxaca. Com., pol. 17.8 x 8.8.

344. MAP OF YUCATAN, F. Catherwood, Charles Copley, Sc., New York, ca. 1843. From John L. Stephens, Incidents of Travel in Yucatan, 1843, v. 1, f.p. 9. Outline of the Coast taken from English and Spanish Charts. 17°40' to 22° latitudes N. and 86°25' to 92°05' longitudes W. of Greenwich. Cities and towns, roads, ruins, unexplored areas. Outl. Arch., com., phy. Mntd. 27.7 x 33.4.

345. MAP OF YUCATAN, ca. 1904. 17° to 22° latitudes N. and 86° to 93° longitudes W. of Greenwich. Boundaries of districts under Mexican government, boundaries of uninhabited lands. Cities, towns and villages, railways operating and projected, roads, ruins. Route of Dr. C. Sapper. Arch., com., pol. 3.3 cm = 100 km. 18.2 x 22.5.  
Seler, 1904, f.p. 17.

346. SKETCH (WITH ENGLISH TRANSLATION) OF A MAP OF YUCATAN, CIRCA, 1566, FOUND WITH THE LANDA MS. 2 reduced copies of manuscript maps. Northeastern coast of Yucatan in the vicinity of the mouth of the Matatlan River and Ascension Bay. Land to west and south marked as unexplored wilderness. 23 x 15.5.  
Means, 1917, back.

347. SKIZZE DES HALBINSEL YUKATAN NACH ELNER SKIZZE DES MEXIKANISCHEN GENERALSTABES, ca. 1905. 17° to 21° latitudes N. and 87° to 91° longitudes W. of Greenwich. Cities, railways and, telegraph lines; scene of Mexican campaigns against Indian tribes of Quintana Roo, peninsula of Yucatan. Com., mil., pol. Pho. 1: 3,468,750. 17.1 x 17.1.  
Sapper, 1905, p. 166.

348. MAP SHOWING THE ROUTE OF THE CORWITH EXPEDITION AND THE CAVES EXPLORED IN THE SIERRA DE YUCATAN IN JANUARY AND MARCH, 1895. 19° to 21° latitudes N. and 86°30' to 91° longitudes W. of Greenwich. Route from Progreso to Sabaca. Caves, ruins, and surface pools. Arch., com. Sha. 10.4 x 17.8.  
Mercer, 1896, front.

8. Nicaragua

349. NICARAGUA, REGIONS WITHIN WHICH CLIMATIC CONDITIONS SEEMS SUFFICIENTLY FAVORABLE FOR CULTIVATION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division, No. 2393, ca. 1926. 10°45' to 15°30' latitudes N. and 83°45' to 88° longitudes W. of Greenwich. Boundaries settled and in dispute, cities and towns, regions suitable for cultivation of Hevea rubber. Com., econ., pol. 1 1/8 in. = 100 mi. 19.7 x 10.7.

Treadwell, 1926, p. 134.

350. DIE LANDENGE DE NICARAGUA. 10° to 14° latitudes N. and 83°10' to 88° longitudes W. of Greenwich. Cities and towns, railways of Nicaragua. Com., phy., pol. Sha. 1:4 500 000. 6.1 x 13.

Sievers, 1914, p. 494.

351. RAILROAD MAP OF NICARAGUA, Department of Commerce, Transportation Division, ca. 1925. 10°40' to 15°15' latitudes N. and 83° to 87°30' longitudes W. of Greenwich. Brangmans Bluff Lumber C. Railroad; Guyamel Fruit Co. Railroad; Pacific Railway of Nicaragua, concession of Pacific Railroad; Prestinary Railroad concession; proposed route for railway to the Atlantic; Wawa Railroad line in operation and proposed; cities and towns; concession for road to Nicaraguan frontier from El Viejo via Playa Grande; Nicaraguan Sugar Estates Ltd. Outl. Com., pol. 1 in. = 50 mi. 19 x 18.4.

Long, 1925, f.p. 80.

352. GENERAL LOCATION OF SOME IMPORTANT SOIL AREAS IN EASTERN NICARAGUA. Base from map published by Pan American Union. Soils by H. H. Bennett. No. 2348-C. 10° to 15° latitudes N. and 83° to 86° longitudes W. of Greenwich. Regions suitable for the cultivation of Hevea rubber, location of principal soil areas, railroads. Com., econ., geol., phy. Sha. 1 in. = 50 mi. 17.6 x 18.6.

Treadwell, 1926, f.p. 141.

9. Panama

353. CANAL ZONE AND CONTIGUOUS TERRITORY. Soils by H. H. Bennett, Department of Agriculture. 08°45' to 09°30' latitudes N. and 79°30' to 80°20' longitudes W. of Greenwich. Alhajuella clay; Ancon clay; Arraijan clay, less rugged phrase; Bluefields clay; Catedral clay; fills and excavations; Frijoles clay; Gatun clay; Limestone hills (largely in military reservation); marsh; Paraiso clay; Santa Rosa clay; Savana clay; unclassified alluvium. Geol., phy. 3/4 in. = 8 mi. 12.6 x 11.7.

Treadwell, 1926, p. 180.

354. THE CANAL ZONE: THE PANAMA CANAL AND RAILROAD. Route of the Panama Canal and Railway; towns in the Canal Zone. Outl. Com., pol. 13.5 x 4.8.  
Davies, 1930, p. 422.

355. AERIAL VIEW OF THE PANAMA CANAL. The Panama Canal Zone, railway from Panama to Colon. Com., phy. Sha. 6.5 x 19.  
Reid, 1929, p. 118.

356. DER PANAMA KANAL. Cities and towns in the Canal Zone, route of Panama Canal and Railway. Com., pol. 1: 500 000. 4.2 x 13.2.  
Sievers, 1914, p. 523.

357. PANAMA, REGIONS WITHIN WHICH CLIMATIC CONDITIONS SEEM FAVORABLE FOR CULTIVATION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division, 1926. No. 2313. 07° to 10° latitudes N. and 77° to 83° longitudes W. of Greenwich. Fixed and unsettled international boundaries, Panama Canal, cities and towns, railroads, regions favorable for Hevea rubber. Outl. Com., econ., pol. Sha. 3/8 in. = 40 mi. 9.3 x 19.1.  
Treadwell, 1926, p. 159.

358. RAILROAD MAP OF PANAMA, Department of Commerce, Transportation Division, ca. 1925. 07° to 10° latitudes N. and 77° to 83° longitudes W. of Greenwich. United Fruit Co. Railway (Changuinola Railroad Lines), Cinriqui Railway, Delvalle-Henriquez and Co. Railroad, Nombre de Dios Railroad under construction, Pan American Lumber Corp. Railroad, Panama Railroad, Panama Sugar Co. Railroad, concession for railway from Tuira River to the Columbian frontier. Cities and towns, Panama Canal. Outl. Com., pol. 15/16 in. = 60 mi. 10.2 x 19.2.  
Long, 1925, p. 121.

359. MAP OF WESTERN PANAMA, W. E. Belanske, 1924. 07° to 09°55' latitudes N. and 79°15' to 83°30' longitudes W. of Greenwich. Route of Expedition of the American Museum under Ludlow Griscom, February-March, 1924. Com., phy., pol. 1 in. = 60 mi. 8.5 x 12.1.  
Griscom, 1924, p. 509.

360. PLAN OF THE HARBOUR AND TOWN OF PORTO BELLO, J. Mynde, Sc., ca. 1772. Location of Gloria Castle, Castle of St. Jerome, Iron Castle in the Harbor of Porto Bello. Outl. Phy. Sha. 3/4 in. = 300 toises. 10.2 x 15.8.  
Ulloa, 1772, v. 1, f.p. 92.

361. RECONNAISSANCE SOIL MAP TUYRA VALLEY REGION, PANAMA, Department of Commerce, Drafting Division, 1926. No. 2461. Soils by H. H. Bennett. 07°20' to 09°10' latitudes N. Alluvial soil, high and low hill, mountainous regions, swamps. Geol., phy. Sha. 1 1/4 in. = 15 mi. 17.7 x 18.9.  
Treadwell, 1926, f.p. 169.

#### 10. West Indies

362. PLAN OF CAPE OF ST. FRANCOIS, J. Mynde, Sc., ca. 1772. Plan of the town of St. Francois, Santo Domingo. Phy. Sha. 8.8 x 17.5.



Ulloa, 1772, v. 2, f.p. 240.

363. CUBA. North E-F, 17-18. Preliminary edition, subject to correction. 16° to 24° latitudes N. and 72° to 84° longitudes W. of Greenwich. Includes a portion of Haiti and the Bahama Islands. Cities and towns, railways, roads. Com., pol. Mntd. 46.3 x 65.7.

364. RAILROAD MAP OF THE REPUBLIC OF CUBA, Department of Commerce, Transportation Division, ca. 1925. 19°30' to 23°25' latitudes N. and 74° to 85° longitudes W. of Greenwich. Principal cities and towns, railways: Camaguey and Nuevitas Railroad, Caracas Railroad, Caradenas and Jucaro Railroad, Cienfuegos, Palmira and Cruces, Cuba Northern Railroad, Cuba Railroad Co., Cuban Central Railroad, Gibara and Holguin Railroad, Guantanamo Railroad, Guantanamo and Western Railroad, Habana Central Railways, Habana Electric Railway Light and Power Co., Habana Terminal Co., Hershey Cuban Railroad, Mariano and Habana Railroad, United Railways of Habana and Regla Warehouses, Ltd., Western Railway of Habana. Outl. Com. 2 5/8 in. = 100 mi. 19 x 48.3.  
Long, 1925, f.p. 157.

365. DOMINICAN REPUBLIC, Department of Commerce, Geographic Section, Research, Drafting Division, 1926. No. 2389. 17°30' to 20° latitudes N. and 68° to 72° longitudes W. of Greenwich. Principal cities and towns, railways of Dominican Republic. Outl. Com., pol. 11/16 in. = 50 mi. 10.7 x 7.3.  
Treadwell, 1926, p. 335.

366. RAILROAD MAP OF THE DOMINICAN REPUBLIC, Department of Commerce, Transportation Division, ca. 1925. 17°30' to 20° latitudes N. and 68° to 72° longitudes W. of Greenwich. Cities and towns, railways in operation and proposed. Outl. Com., pol. 1 in. = 50 mi. 10 x 15.6.  
Long, 1925, p. 296.

367. HAITI, Department of Commerce, Geographic Section, Research, Drafting Division, 1926. No. 2413. 72°35' to 74°25' latitudes N. and 18° to 20°05' longitudes W. of Greenwich. Principal cities and towns, railways of Haiti. Outl. Com., pol. 3/8 in. = 20 mi. 8 x 10.8.  
Treadwell, 1926, p. 338.

368. RAILROAD MAP OF THE REPUBLIC OF HAITI, Department of Commerce, Transportation Division, ca. 1925. 18° to 20° latitudes N. and 71°30' to 74°35' longitudes W. of Greenwich. Principal cities and towns, railways: Haitian American Railroad, National Railway Co. of Haiti in operation, proposed and under construction, Plaine du Cul de Sac Railroad. Outl. Com., pol. 1/2 in. = 20 mi. 14.9 x 11.  
Long, 1925, p. 284.

369. RAILWAY MAP OF JAMAICA, Department of Commerce, Transportation Division, ca. 1925. 17°40' to 18°40' latitudes N. and 76°10' to 78°20' longitudes W. of Greenwich. Principal cities and towns, railways and stations, main roads of the counties of Cornwall, Middlesex, and Survey, Jamaica. Outl. Com., pol. 1 1/2 in. = 30 mi. 8.9 x 19.  
Long, 1925, p. 327.

370. PORTO RICO. North E-F, 19-20. Preliminary edition, subject to correction. 16° to 24° latitudes N. and 60° to 72° longitudes W. of Greenwich. Cities and towns, railways, roads. Com., pol. Mntd. 46.4 x 65.5.

371. RAILROAD MAP OF PORTO RICO, Department of Commerce, Transportation Division, ca. 1925. 17°54' to 18°31' latitudes N. and 65°50' to 67°15' longitudes W. of Greenwich. Principal cities and towns, railways: American Railroad Co.; Fajardo Railroad; Ferrea Line to the West, Humacao Railroad; Northern Railroad of Porto Rico; Ponce and Guayama Railroad; Ponce Light Co. Railroad, Porto Rico Railway, Light and Power Co.; San Juan and Carolina Railroad; and 30 Railroads of Centrals. Outl. Com. 1 in. = 20 mi. 8.6 x 19.  
Long, 1926, p. 336.

372. RAILROAD MAP OF TRINIDAD, Department of Commerce, Transportation Division, ca. 1925. Railways, tramways, and towns of the island of Trinidad off the north coast of South America. Outl. Com., pol. 1: 300,000. 19.1 x 25.5.  
Long, 1925, p. 360.

373. WEST INDIES, J. N. Matthews Co., Buffalo, ca. 1915. 08° to 25° latitudes N. and 60° to 86° longitudes W. of Greenwich. Capitals of countries, of colonies, railways, submarine telegraph lines. Com., pol. Col. 1 in. = 175 mi. 16.7 x 22.4.  
Babson, 1919, f.p. 1.

G. North America

1. North America, general

374. [BREEDING GROUNDS OF WILD DUCKS AND GEESE IN CANADA-UNITED STATES.] 30° to 70° latitudes N. and 50° to 150° longitudes W. of Greenwich. 4 maps indicating the principal breeding ranges, migration routes, and winter homes. 1. Map Showing the Breeding Ground of Wild Ducks and Geese. 2. Map Showing the Almost Undisturbed Breeding Ground of Ducks and Geese in Northern Canada. 3. Map Showing Breeding Grounds, Winter Home, and Curious Migration Routes of White-Winged Scoter. 4. The Breeding Ground and Winter Home of the Ross Goose. Outl. Pol., zool. 9.4 x 13.9.  
Cooke, 1913, pp. 362, 364, 365, 367.

375. SECTIONAL MAP INDICATING MAIN AUTOMOBILE ROADS BETWEEN CANADA & UNITED STATES (MIDDLE WEST SHEET), Natural Resources Intelligence Service, Department of the Interior, Quebec, 1926. 38° to 54° latitudes N. and 85° to 107° longitudes W. of Greenwich. Main automobile roads between the Middle West States of Canada and of the United States. Com., pol. Col., mntd. 2 5/8 in. = 100 mi. 94 x 80.7. 5 unmounted copies on file.

376. SECTIONAL MAP INDICATING MAIN AUTOMOBILE ROADS BETWEEN CANADA & UNITED STATES (PACIFIC SHEET), Natural Resources Intelligence Service, Department of the Interior, Quebec, 1926. 37° to 58° latitudes N. and 104° to 124° longitudes W. of Greenwich. Main automobile roads between Pacific States of Canada and of the United States. Com., pol. Col.

2 7/8 in. = 100 mi. 102.5 x 81.9. 5 additional copies on file.

377. NORTH AMERICA, C. S. Hammond and Co., New York. 12° to 83° latitudes N. and 52° to 172° longitudes W. of Greenwich. Capitals, principal cities and towns, lakes, rivers of North America. Com., pol. Col. 1 1/2 in. = 800 mi. 28 x 20.3. 2 insets on same scale: 1. Aleutian Islands. 50° to 56° latitudes N. and 172° E. to 162° W. of Greenwich. 3 x 7. 2. West Indies. 14° to 20° latitudes N. and 60° to 64° longitudes W. of Greenwich. 3.7 x 3.3.

Leyburn, 1931, back.

378. NORTH AMERICAN MIGRATIONS, Emery Walker, Sc., Cambridge University Press, Cambridge, ca. 1911. Migration of 23 peoples in North America. Outl. Ethnol. 1 1/8 in. = 1,000 mi. 15.5 x 12.6.

Haddon, 1912, map. no. 5, back.

379. MAP SHOWING THE PRINCIPAL WINTER RESORTS OF THE WILD DUCKS AND GEESE. 10° to 45° latitudes N. and 60° to 130° longitudes W. of Greenwich. Principal winter resorts of wild ducks and geese along the Atlantic coast, Mississippi River, Gulf Coast of the United States and Mexico. Outl. Pol., zool. 14 x 9.6.

Cooke, 1913, p. 368.

380. SKETCH SHOWING WHERE SAN-AUGUSTIN-GUADALUPE ROAD CROSSES U.S. TERRITORY, H. W. Hall, 1911. Boundary between the U. S. and Mexico in 1854, monuments, section of the San Augustin-Guadalupe Road crossing into United States territory. Com., pol. 3 in. = 1 mi. 23.2 x 27.

U. S. War department, 1912, f.p. 51.

## 2. Canada

381. MANITOBA, James White, Department of the Interior, Quebec, 1902. 48°50' to 53°20' latitudes N. and 94° to 102° longitudes W. of Greenwich. Real estate map for homesteading purposes, railways, roads. Com., phy., pol., land tenure. Col., mntd. 1: 792,000. 67.1 x 71.

382. MAP OF NOVA SCOTIA, Moss Engraving Co., New York, ca. 1895. Ports, towns, ship railway. Outl. Com. 9.6 x 10.1.

Corthell, 1895, f.p. 25.

## 3. United States

383. MAP SHOWING THE ACQUISITION OF TERRITORY AND ITS DISTRIBUTION AMONG POLITICAL DIVISIONS. 1776-1874, Julius Bien and Co., Lith., ca. 1882. 21° to 49° latitudes N. and 67° to 125° longitudes W. of Greenwich. Area of the original thirteen states. Territory acquired by: Connecticut Cession, 1786-1800; Gadsden Purchase, 1853; Georgia Cession, 1802; Louisiana Purchase, 1803; Massachusetts Cession, 1785; Mexican Cession, 1848; North Carolina Cession, 1790; South Carolina Cession, 1787; Spanish Cession, 1819; Texas Annexation, 1845; Texas Cession, 1850; Virginia Cession, 1784. Hist., phy., pol. 18.7 x 26.7.

Viele, 1882, f.p. 166.

384. CONTOUR MAP OF THE BURTON MOUND. Based on a map probably prepared by J. K. Harrington, ca. 1901. Contour and location of Burton Mound, Santa Barbara, California. Sketch. Arch., phy. 1 in. = 184 ft. 13.8 x 10.5.

Harrington, 1928, p. 69.

385. THE OLD CHOCTAW COUNTRY, MISSISSIPPI, ca. 1931. 31°45' to 33°15' latitudes N. and 90°20' to 91°15' longitudes W. of Greenwich. Rivers; towns belonging to the Central, Eastern, Southern, and Western division of the Choctaw nation. Ethnog., pol. 1 7/8 in. = 40 mi. 18.7 x 11.

Swanton, 1931, f.p. 55.

386. [SECTION OF THE CONSERVANCY DISTRICT PLAN WHICH AFFECTS THE PUBBLO INDIANS]. Rio Grande River from the proposed Cochiti Division Dam, Sandoval County to Valencia County, New Mexico. Com., pol. 2 3/8 in. = 12 mi. 30 x 22.

Eastern Association on Indian affairs, inc., 1928.

387. MAP OF DOUGLAS TOWNSITE, E. G. Howe, 1901. Plan of Douglas Townsite, Cochise County, Arizona. Avenues and streets, depots and freight yards, railways, roads. Com. 1 in. = 300 ft. 91.8 x 51.5.

U. S. War department, 1912, back.

388. [EARTHWORKS, MOUNDS STATE PARK, INDIANA], ca. 1932. Main group of earthworks found in Madison County near Anderson, Indiana. Arch., com., phy. 13.3 x 10.6.

Smith, 1932, p. 19.

389. GROUP OF EARTHWORKS NEAR MARKSVILLE, LA., 1926. Plan of the Marksville earthworks. Embankments, mounds, lodge sites along Old River. Arch., phy. 23.1 x 11.7.

Fowke, 1928, f.p. 412.

390. PLAN OF THE REGION WITHIN WHICH ARE THE EARTHWORKS OF THE MOUND BUILDERS, ca. 1894. Sketch map indicating locations of mounds on Brush Creek, Licking Creek, Little Miami, Miami, Muskingum and Scioto Rivers in Ohio. Arch. 10.5 x 15.

Brine, 1894, p. 54.

391. MAP OF ECHO CLIFFS BETWEEN LYON RANCH AND WILLOW SPRINGS, SHOWING DISTRIBUTION OF SPRINGS, U. S. Geological Survey, ca. 1916. Road from Lyon Ranch to Willow Springs, seeps, springs. Com., geol., phy. Approximate scale: 1 1/16 in. = 4,000 ft. 17.3 x 6.6.

Gregory, 1916, p. 145.

392. MAP OF THE CITY OF EL PASO, TEXAS, E. C. Baer, The Norris Peters Co., Washington, 1906. Plan of city of El Paso, Texas.

Avenues and streets, Mexican border, bridges, factories and mills, railways and roads, subdivisions. Com., econ., pol. 1 in. = 1,000 ft. 65.2 x 68.6.

U. S. War department, 1912, back.

393. FORT ANCIENT, ca. 1894. Remains of settlement of aboriginal Indians at Fort Ancient, Ohio. Arch., phy. 3/4 in. = 200 yds. 15.1 x 10.5.

Brine, 1894, p. 88.

394. MAP OF A PART OF THE HOPPI BUTTES PROVINCE, SHOWING THE DISTRIBUTION OF LAVA AND SEDIMENTARY ROCK WITH REFERENCE TO THE POSITION OF SPRINGS. 35°10' to 35°34' latitudes N. and 110° to 118° longitudes W. of Greenwich. Lava, sedimentary rock, springs and wells, Hoppi Buttes Province, northeastern Arizona. Geol., phy. 1 1/2 in. = 10 mi. 7.3 x 8.6.

Gregory, 1916, p. 140.

395. HORNSTONE QUARRIES AND WORKSHOPS IN HARRISON COUNTY, IND. Flint quarries and village sites along the Ohio River and between Buck Creek and Blue River, Harrison County, Indiana. Sketch. Arch., geol. 14.4 x 10.2.

Fowke, 1928, p. 523.

396. INCLOSURES AT CIRCLEVILLE, Atwater, ca. 1820. Reduced copy from the survey of Mr. Atwater published in the first volume of the *Archaeologia Americana*. Plan of ruins of earthworks and graves of aboriginal Indians at Circleville, Ohio. Arch. 2 in. = 300 yds. 15.3 x 10.4.

Brine, 1894, p. 81.

397. INCLOSURES AT MARIETTA, 1837, Charles Whittlesea, 1837. A reduction from survey of Charles Whittlesea of part of the ruins of Indian fortifications and graves at Marietta, Ohio, estimated as of the fifteenth century. Arch., phy. 1 in. = 400 yds. 15 x 10.6.

Brine, 1894, p. 71.

398. [INCLOSURES NEAR NEWARK, OHIO], 1894. 2 plans of Indian earthworks near Newark, Ohio. 1. Plan of Indian Inclosures and Parallel Embankments Near Newark, Ohio. Arch., phy. 1/2 in. = 500 yds. 10.8 x 15.4. 2. Octagonal and Circular Inclosures near Newark. Arch., phy. 1 3/4 in. = 400 yds. 14.5 x 10.2.

Brine, 1894, pp. 66, 97.

399. THE INDIAN DETOUR AND OPTIONAL SIDE TRIPS. Route of the Atchison, Topeka and Santa Fe Railway and connections through New Mexico from Raton to Acoma Indian Pueblo; ruins. Arch., com., phy. 12.2 x 15.4.

Santa Fe railway co., 1926, pp. 55-56.

400. DISTRIBUTION OF INDIAN POPULATION WITH RESPECT TO THE VARIOUS COURTS. Indian agencies, county and reservation boundaries, U. S. District Courts, Indian population, roads, county seats in the States of Minnesota and Wisconsin. Sketch. Com., ethnog., pol., stat. 25.5 x 20.5.

U. S. Congress. Senate. Committee on Indian affairs, 1932, f.p. 14248.

401. PERCENTAGE OF INDIANS IN THE POPULATION OF COUNTIES INCLUDING RESERVATIONS OR FORMER RESERVATION SITES, 1930 CENSUS. Distribution of Indians in the States of Washington, Oregon, Montana, North and South Dakota, Minnesota, and Wisconsin. Sketch. Ethnog., stat. Sha. 7.3 x 19.

U. S. Congress. Committee on Indian affairs, 1932, p. 14171.

402. INCREASE OR DECREASE OF [INDIAN] POPULATION FROM 1920 TO 1930 IN COUNTIES INCLUDING RESERVATIONS OR FORMER RESERVATION SITES. Distribution of Indians in the States of Washington, Oregon, Montana, North and South Dakota, Minnesota and Wisconsin. Sketch. Ethnog., stat. Sha. 7.3 x 19.

U. S. Congress. Senate. Committee on Indian affairs, 1932, p. 14170.

403. [INDIAN] POPULATION PER SQUARE MILE IN COUNTIES INCLUDING RESERVATIONS OR FORMER RESERVATION SITES, 1930 CENSUS. Distribution of Indians in Washington, Oregon, Montana, North and South Dakota, Minnesota and Wisconsin. Sketch. Ethnog., stat. Sha. 7.3 x 19.

U. S. Congress. Senate. Committee on Indian affairs, 1932, p. 14168.

404. KEY MAP OF VEGETATION DISTRICTS IN RELATION TO INDIAN RANGE LANDS, H. Ruh, 1932. 30° to 49° latitudes N. and 85° to 125° longitudes W. of Greenwich. Vegetation districts in the western part of the United States. Com., econ., pol. Col. 1 1/8 in. = 200 mi. 20.3 x 30.3.

U. S. Congress. Senate. Committee on Indian affairs, 1932a, f.p. 12264.

405. REGIONAL MAP OF INDIAN RESERVATIONS OF MAJOR RANGE IMPORTANCE, H. Ruh, 1932. 33° to 45° latitudes N. and 85° to 125° longitudes W. of Greenwich. Indian reservations in the Northern Great Plains, Intermountain, and Southwest Regions. Com., ethnog., pol. Col. 1 1/8 in. = 200 mi. 20.3 x 30.3.

U. S. Congress. Committee on Indian affairs, 1932a, f.p. 12252.

406. [INDIAN TRACTS], ca. 1931. Land between the Canadian River and Red River, in Oklahoma claimed to have been conveyed to Choctaws, 1820, by the United States. Sketch. Land tenure. 5.7 x 18.

U. S. Congress. Senate. Committee on Indian affairs, 1931, p. 5521.

407. PLAN OF THE LAKE SUPERIOR IRON AND COPPER REGION, ca. 1894. Iron and copper deposits in northern Michigan mined by the aboriginal Indians. Econ. 1/2 in. = 50 mi. 6.1 x 9.5.

Brine, 1894, p. 35.

408. [LAND WHICH IS INCLUDED BETWEEN THE ONE HUNDRED AND FIRST AND ONE HUNDRED AND THIRD MERIDIANS WEST OF GREENWICH AND THE RED AND CANADIAN RIVERS]. 18 maps proving this land was part of Louisiana. Sketch. Hist. 1. A map published in Paris in 1703 by De Lisle, geographer of the Royal Academy, Old Maps of America, v. 1, no. 8. 10.5 x 15. 2. A map published at Leyden in 1704, by Louis de Hennepin, West Indise Voyagen, p. 1. 10.5 x 15. 3. A map of H. Moll, published

in London, 1711. 7.5 x 14.5. 4. A map of H. Moll, published in London, 1715, Old Map of America, v. 1, no. 16. 12.5 x 11. 5. A map by H. Moll, published in London, 1715, Old Maps of America, v. 1, no. 13. 10 x 14.5. 6. A map published by Covens and Mortier, Amsterdam, 1718, Atlas Nouveau, v. 2, no. 38. 11 x 12. 7. A map printed in London, 1722, dedicated to William, Duke of Gloucester. 10.5 x 14. 8. A map by De Lisle, published in Amsterdam, 1722, Atlas Nouveau, v. 2, no. 39. 14.8 x 11. 9. Map published in Amsterdam, without date, but before 1730. 13.9 x 10.8. 10. Map by H. Popple, London, 1733, under the patronage of the Lords Commissioners of Trades and Plantations, Old Maps of America, v. 1, no. 17. 13.3 x 10.8. 11. Map by H. Popple London, 1735, America Maps, v. 2, no. 9. 13.8 x 10.2. 12. Map by De Lisle, Amsterdam, 1739. 10.3 x 14.5. 13. Map by A. G. Boehme, 1746. 11 x 18.5. 14. Map published in 1753, American Maps, v. 2, no. 10. 10 x 16.5. 15. Map published in 1774, at London, in pursuance of an act of Parliament. 10.5 x 16. 16. Map published by authority of Parliament, at London in 1775, copied from Von Staehlin's, published at St. Petersburg in 1774. 10.7 x 17.5. 17. Map published at Paris in 1820, by Barbé-Marbois, the French negotiator of the treaty of cession 1803, in his History of Louisiana, to be found in the Congressional Library. 10.8 x 12.7. 18. The form and dimensions of the lands west of the 100th meridian of W. longitude ceded to the Choctaws by the United States on the 18th of Oct. 1820, which ceded lands are divided into townships on the map. 9.4 x 12.

U. S. Congress. Senate. Committee on Indian affairs, 1931, pp. 5573-5590.

409. MAP OF PROPOSED IRRIGATION WORKS AT LEUPP, ARIZ. U. S. Geological Survey, ca. 1916. Dam and reservoir site on Little Colorado River, Arizona, cultivatable ground. Econ., phy. 2 1/4 in. = 2 3/4 mi. 5.7 x 19.1.

Gregory 1916, p. 111.

410. MAP INTENDED TO VISUALIZE THE POSITION OF THE SEVERAL LINGUISTIC STOCKS DURING THE EARLIEST PERIOD, ca. 1934. Position of linguistic groups after the Proto-Muskogean tribes had crossed the Mississippi and while the Iroquoian and Muskogean peoples were still on the right bank of the river with Caddoan adjoining them to the westward. Ethnog., pol. Sha. 12.7 x 11.4.

Bushnell, 1934, map no. 1, back.

411. AFTER THE IROQUOIAN AND MUSKOGEAN TRIBES HAD ARRIVED EAST OF THE MISSISSIPPI, ca. 1934. Territory occupied by Algonquian, Caddoan, Iroquoian, Muskogean, Proto-Muskogean, Siouan, and Uchean Indian tribes. Ethnog., pol. Sha. 12.7 x 11.4.

Bushnell, 1934, map no. 2, back.

412. THE NORTHERN THRUST OF THE IROQUOIAN PEOPLES RESULTED IN THE SEPARATION OF THE SIOUAN AND ALGONQUIAN TRIBES, ca. 1934. Position of Indian tribes after northern migration. Ethnog., pol. Sha. 12.7 x 11.4.

Bushnell, 1934, map no. 3, back.

413. THE RELATIVE POSITION OF THE LINGUISTIC GROUPS AT THE BEGINNING OF THE SIXTEENTH CENTURY, ca. 1934. Distribution of Algonquian, Caddoan, Iroquoian, Muskogean, Proto-Muskogean, Siouan, and Uchean Indian tribes. *Ethnog.*, pol. Sha. 12.7 x 11.4.  
Bushnell, 1934, map no. 4, back.

414. GROUND PLAN OF MARRIOTT MOUND, NO. 1, ca. 1886. Plan of mound found in Little Miami Valley in Ohio. Arch.  $3/4$  in. = 10 ft. 11.2 x 11.2. Section of Marriott Mound, No. 1. Geol.  $3/4$  in. = 10 ft. 5 x 11.2.  
Metz and Putnam, 1886, p. 450.

415. MARYLAND, DELAWARE AND DISTRICT OF COLOMBIA, The National Geographic Society, A. Hoen and Co., Lith., Baltimore, 1925.  $37^{\circ}45'$  to  $40^{\circ}$  latitudes N. and  $75^{\circ}$  to  $79^{\circ}30'$  longitudes W. of Greenwich. Capitals, cities and towns, county seats, canals and rivers, highways, railways and tram lines, elevation of country. Com., phy., pol., stat. Col. 1: 900,000. 30.6 x 45.8. 3 insets: 1. Baltimore and vicinity.  $39^{\circ}11'$  to  $39^{\circ}24'$  latitudes N. and  $76^{\circ}31'$  to  $76^{\circ}43'$  longitudes W. of Greenwich.  $1\ 5/16$  in. = 4 mi. 12.1 x 9. 2. Washington and vicinity.  $38^{\circ}48'$  to  $39^{\circ}$  latitudes N. and  $76^{\circ}55'$  to  $77^{\circ}08'$  longitudes W. of Greenwich.  $1\ 5/16$  in. = 4 mi. 12.1 x 10.2. 3. Wilmington and vicinity.  $39^{\circ}42'$  to  $39^{\circ}47'$  latitudes N. and  $75^{\circ}30'$  to  $75^{\circ}37'$  longitudes W. of Greenwich.  $11/16$  in. = 2 mi. 4.9 x 4.6.  
The National geographic society, 1927, Supplement.

416. MAP SHOWING THE LOCATION OF 46 OUT OF THE 56 NATIONAL BIRD RESERVATIONS. Locations of National Bird Reservations in North and South Dakota, Florida, Louisiana, off the coast of Mississippi, Lake Michigan, Lake Superior, and the Western States. Pol., zool. 8.4 x 13.8.  
Cooke, 1913, p. 369.

417. [LOCATION OF NAVAJO COUNTRY], U. S. Geological Survey, ca. 1916.  $31^{\circ}$  to  $41^{\circ}$  latitudes N. and  $102^{\circ}$  longitudes W. of Greenwich. Location of Navajo country in southern Utah, northern Arizona and New Mexico. Com., pol.  $1\ 5/8$  in. = 300 mi. 10.9 x 11.  
Gregory, 1916, p. 14.

418. FOREST MAP OF THE NAVAJO COUNTRY, ARIZONA, NEW MEXICO AND UTAH, U. S. Geological Survey, 1916. Base from U. S. Geological Survey Map of the United States in preparation in 1916. Forest areas by G. A. Gatches.  $34^{\circ}45'$  to  $37^{\circ}20'$  latitudes N. and  $108^{\circ}$  to  $112^{\circ}$  longitudes W. of Greenwich. Distribution of National Forests; Hopi and Navajo Reservations; merchantable yellow pine; scattered yellow pine; piñon and scattered juniper; scattered juniper and piñon spruce in Navajo country. Com., econ., pol. 1: 1,000,000. 29.3 x 37.9.  
Gregory, 1916, f.p. 74.

419. GEOLOGIC SECTIONS ACROSS THE NAVAJO COUNTRY, U. S. Geological Survey, ca. 1916. 2 geological sections of Navajo country: A. Section From Colorado River Through Lohali to Chaco River. B. Section From Colorado River Through Navajo and Carrizo Mountains to Chaco River. Pro. Phy. Col. Hor.  $1\ 1/4$  in. = 10 mi., ver.  $1\ 3/4$  in. =



20,000 ft. 19.3 x 72.

Gregory, 1916, f.p. 80.

420. NEWARK EARTHWORKS, OHIO, ca. 1876. Earthworks found near Newark. Canal, creeks, highway, railway. Arch., com., phy. 11.8 x 16.3. Wilson, 1876, v. 1, p. 269.

421. STATE OF NEW MEXICO, A. F. Dinsmore and Wm. Bauman, Eckert Lithographing Co., Washington, 1912. Compiled from Official Records of the General Land Office of the Department of the Interior and other sources under the direction of I. P. Berthrong, by A. F. Dinsmore, traced and lettered by Wm. Bauman. 31° to 37° latitudes N. and 103° to 109° longitudes W. of Greenwich. Capital, cities and towns, counties, county seats, private land grants, U. S. land office, forest, Indian, and Military reserves, national monuments, bird reservations. Com., econ., ethnog., phy., pol., land tenure. Col., mndt. 1 in. = 12 mi. 94.4 x 81.4.

422. PLAT OF THE SAN FELIPE PUEBLO GRANT IN SANDOVAL COUNTY, NEW MEXICO. Plat of the 33,692.360 acre San Felipe Pueblo Grant as resurveyed Sep. 25-Oct. 15, 1907 by Wendell V. Hall, U. S. Dep. Surveyor under contract No. 403, dated Feb. 1, 1907. Railway, roads, Rio Grande, telephone lines. Com., phy., land tenure. Pho. 1 in. = 50 chs. 39.2 x 48.6.

423. SANTA FE, Poole Bros., Chicago, 1924. Lines under construction, route of Santa Fe and connections from Chicago and New Orleans through the Western States of the United States. Com. 11.8 x 17.4. Santa Fe railway co., 1926, pp. 61-62.

424. MAP OF THE SANTO DOMINGO PUEBLO GRANT. Plat of the 92, 398. 382 acre Santo Domingo Pueblo Grant, Santa Fe and Sandoval Counties, New Mexico as resurveyed by Wendell V. Hall, U. S. Dep. Surveyor, Sep. 17 - Nov. 30, 1907, under contract No. 380, Dated Oct. 3, '05. Railway, roads, and telephone line. Com., phy., land tenure. Pho. 1 in. = 8 chs. 39.2 x 48.6.

425. APPROXIMATE LOCATION OF PERMANENT SEMINOLE CAMPS, Roy Nash, 1930. Distribution of Seminole Indian Camps in Florida. Com., ethnog., phy., pol. 11/16 in. = 10 mi. 43.9 x 32.3. Nash, 1931, f.p. 88.

426. MAP OF TUBA AND VICINITY, SHOWING DISTRIBUTION OF SPRINGS, U. S. Geological Survey, ca. 1916. Distribution of springs, land under cultivation and capable of reclamation, proposed dam site on Moenkopi Wash, roads, school, northeastern Arizona. Com., econ., geol., phy. 1 1/4 in. = 1 mi. 19 x 25.5. Gregory, 1916, f.p. 144.

427. [CHARACTERISTICS OF POPULATION OF DIFFERENT SECTIONS IN UNITED STATES]. Map to illustrate chart giving characteristics and composition of the population of the various sections of the United States. Pol., stat. 13.5 x 21.5. Love and Davenport, 1920, f.p. 209.

428. [DEFECTS FOUND IN DRAFTED MEN IN THE UNITED STATES], ca. 1920. 96 maps giving statistics concerning the number of cases of various important diseases and defects found in the population of military age in the United States. Pol., stat. 4.5 x 7.1.  
Love and Devenport, 1920, pp. 85-100.

429. DISTRIBUTION OF RACES IN THE UNITED STATES, U. S. CENSUS 1910. A. Hoen and Co., ca. 1920. Austrian and Russian; Canadian; English; German; Hungarian; Indians, Chinese and Japanese; Irish; Italian; Mexican and West Indian; native white; negro; other foreign white; Scandinavian; Scotch, living in the United States. Outl. Ethnog., pol, stat. Col. 20.9 x 33.  
Love and Davenport, 1920, front.

430. MAP SHOWING THE FOREIGN STOCK IN THE POPULATION OF THE UNITED STATES, ca. 1917. Percentage of foreign born and children of foreign-born father or mother living in the United States. Pol., stat. 13.3 x 20.2.

Our foreign-born citizens, 1917, p. 96.

431. PRECIPITATION MAP OF THE WESTERN PART OF THE UNITED STATES, H. Ruh, 1932. 30° to 49° latitudes N. and 85° to 125° longitudes W. of Greenwich. Annual precipitation, Indian reservations, railways. Com., ethnog., meteor, pol. Col. 1 1/8 in. = 200 mi. 20.3 x 30.3.  
U. S. Congress. Senate. Committee on Indian affairs, 1932a.  
f.p. 12256.

432. THE WARD-MC ILHENNY AND THE LOUISIANA REFUGES FOR GAME BIRDS. Location of area covered by Ward-McIlhenny wild fowl refuge and Louisiana State wild fowl refuges on the Gulf coast of Louisiana. Phy., zool. Sha. 1 in. = 3 mi. 13.8 x 13.8.

Cooke, 1913, p. 373.

D. South America

1. South America, general

433. [ACRE RIVER]. Map to accompany letters 131-139 of Dr. Frederick L. Hoffman's Letters of South American Trip, Nos. 101-210 & Conclusions, 1921. 10° to 12° latitudes S. and 68°45' to 69°35' longitudes W. of Greenwich. 14 sections or sheets tracing the course of the Acre River, which forms a boundary between Bolivia and Brazil. 1-3, San Miguel Sheets. 4-7, San Vincente Sheets. 8-10, Buenos Aires Sheets. 11-14, Santa Cruz Sheets. Com., pol. Pho. 1: 50,000. Each sheet: 26 x 20. 3 additional copies (4 sheets mntd.) on file.

434. [ACRE TERRITORY]. 10° to 12° latitudes S. and 64°30' to 70° longitudes W. of Greenwich. Site of battles between Bolivia and Brazil and Indian tribes, missions, roads, trails. Com., ethnog., pol. Mntd., pho. 18 x 21.7; 24.8 x 36. 3 additional copies on file and 1 copy of section, 10° to 12° latitudes S. and 64°30' to 67°45' longitudes W. of Greenwich. 24.8 x 36.

435. THE ACRE TERRITORY AND THE CACUTCHOU REGION OF SOUTH WESTERN AMAZONIA SHOWING FRONTIERS ACCORDING TO THE TREATY OF 1903 BETWEEN

BRAZIL AND BOLIVIA, The Royal Geographical Society. 06° to 14°30' latitudes S. and 62°30' to 75°20'15" longitudes W. of Greenwich. Frontier according to Treaty of 1867, modification of frontier by Treaty of 1903, territory transferred by Bolivia to Brazil, territory transferred by Brazil to Bolivia. Com., hist., phy., pol. Col., mntd. 1: 3,000,000. 32.8 x 47.3.

436. TERRITORIO DO ACRE, João Alberto Masó, Max Hunger, Engr., Francisco Alves and Co., Rio Janeiro, 1907-17. 04°10' to 12°30' latitudes S. and 64°30' to 75°30' longitudes W. of Greenwich. Ucayali, Peru, and territory of the colonies, northwestern Bolivia, east of the Madeira Mamoré Railway, and the Matto Grosso Plateau. Cities and towns; distribution of Indian tribes; radio towers; telegraph lines and wireless communication; railways in operation and projected. Com., ethnog., phy., pol. Col., mntd. 1 mm = 1 km. Altitude in meters. 94.6 x 125. 2 insets: 1. Amazonia Vias de Comunicação Parao Territorio do Acre. 05° N. and 17° S. latitudes and 19° E. and 24° W. longitudes from Manáos. 25.6 x 38.5. 2. America do Sul Situação Geographica do Territorio de Acre. 8.8 x 12.2.

437. MAP OF THE VALLEY OF THE AMAZON, H. C. Elliot, A. Hoen and Co., Lith., Baltimore, 1854. To accompany Lieutenant Herndon's Report. 05° N. to 20° S. latitudes and 46° to 82° longitudes W. of Greenwich. Routes traveled by Herndon and Gibbon from Lima, Peru to the Amazon by its northern and southern tributaries, respectively, and along the Amazon to Pará, Brazil. Com., phy., pol. Col. 44.9 x 60.4. Inset: Vertical section of route from Callao to Pará. Hor. 3 in. = 500 mi., ver. 3/4 in. = 16,000 ft. 2.9 x 59.4.

Herndon and Gibbon, 1854, atlas.

438. MAP DRAWN BY LIEUT. LARDNER GIBBON, U. S. NAVY, TO ACCOMPANY HIS REPORT [Exploration of the Valley of the Valley of the Amazon]. 1854, A. Hoen and Co., Lith., Baltimore, 1854. 10° to 26° latitudes S. and 55° to 77° longitudes W. of Greenwich. Titicaca and Madeira Basins in Bolivia, Brazil, and Peru. Capitals, cities and towns; distribution of Indians; fortifications; roads; copper; gold mines and washings; lead; quicksilver; silver; tin. Com., econ., ethnog., geol., hydro., mil., phy., pol. 1 in. = 60 mi. 47.3 x 73. Inset: Continuation of course of Mamoré River and Madeira River to its confluence with the Amazon. 03° to 11° latitudes S. and 58° to 66° longitudes W. of Greenwich. 1 in. = 40 mi. 11.1 x 47.3.

Herndon and Gibbon, 1854, back.

439. THE N. W. AMAZON BASIN, The Royal Geographical Society, London, 1914. From surveys by Hamilton Rice, 1907-08 and 1912-13. 04°10' N. to 00°10' S. latitudes and 67° to 72°48' longitudes W. of Greenwich. Eastern Colombia, southwestern Venezuela, northern Ecuador, and northwestern Brazil. Route of geographic and hydrographic survey from Puerto España, Colombia to San Joaquin, Brazil; course of rivers with their breadths, depths in fathoms, rapids, and tributaries; latitude and longitude of principal towns and settlements. Com., hydro., phy. Col., mntd. 1: 1,000,000. 50 x 65.2. 2 insets: 1. Continuation of main map to Bogotá, Colombia. 03°20' to 04°45' latitudes N. and 72°27' to 74°09' longitudes W. of Greenwich. 17.2 x 20.4. 2. Northern part of South

America showing location of region covered by main map. 13° N. to 20° S. latitudes and 34° to 85° longitudes W. of Greenwich. 1: 30,000,000. 13.8 x 19.6.

440. THE AMAZON RIVER WITH ITS NORTHERN AFFLUENTS, Thomas W. Whiffen, Stanford's Geographical Establishment, London. Reproduced by permission of Captain W. Whiffen, from his book, North Western Tributaries of the Amazons. 04° N. to 04° S. latitudes and the 48° to 80° longitudes W. of Greenwich. Area of Brazil, Colombia, Ecuador, the Guianas, Peru, and Venezuela drained by the northern tributaries of the Amazon. Com., phy., pol. 2 1/4 in. = 150 mi. 28.3 x 97. Fountain, 1914, back.

441. THE AMAZON RIVER AND TRIBUTARIES, PARA TO IQUITOS, Hydrographic Office, Washington, 1919. Portion between Para and Manáos reduced from detailed charts of U. S. Hydrographic Office, into which the results of the observations of the officers of the U. S. S. Wilmington have been incorporated. The portion between Manáos and Iquitos, and all tributaries of the river were compiled from surveys and explorations to 1917. No. 1926. 3 sheets: 1-2-3. 01° N. to 06° S. latitudes and 45° to 73°30' longitudes W. of Greenwich. Cities and towns, railways. Owing to continual changes in the stage of the river, no soundings are given, but 14 feet can be carried up to Iquitos at any time, and vessels of the heaviest draft can proceed to Manáos. Com., hydro., phy., pol. 60.8 x 84. 9 photostatic copies of a section of sheet 2 on file. 02° to 06° latitudes S. and 58° to 61° longitudes W. of Greenwich. 26.9 x 20.5.

442. DIE AMAZONAS-WALDEBIETE, Ludwig Koegel, 1914. From Petermanns, Geogr. Mitteilungen, v. 2, tafel, 30, 1914. 12° N. to 16° S. latitudes and 44° to 82° longitudes W. of Greenwich. Course of the Amazon and its tributaries, forests, savanna land, steamer routes between principal ports. Com., econ., pol. Col., mntd. 1: 7 500 000. 42.7 x 58.2.

443. PLANO DEL RIO "AMAZONAS" DESIDE IQUITOS HASTA MANAOS, Carlos E. C. Hoempler, Iquitos, 1906. Made by order of Coronel D. Pedro, President of the Department of Loreto, according to the plan loaned by the Compania de Vapores "Booth & Co., Iquitos-Liverpool". 02° to 04°30' latitudes S. and 61°50' to 75°30' longitudes W. of Paris. Course of the Amazon from Iquitos, Peru to Manáos, Brazil. Com., hydro. Pho. 1: 500,000. 25.8 x 132.

444. CORTE TRVERSAL DE LOS ANDES Y CUENCA DEL AMAZONAS, George M. von Hassel, Carlos Fabbrì, Lima, Peru, 1905. From the Boletin de la Sociedad Geografica de Lima. Elevation above sea level of the Andes between Mollendo and Pto. Yupanqui. Continuation of profile to Para, Brazil on smaller scale, 0.01 m = 10 km. Pro. Com., phy. Mntd., pho. Hor. 0.01 m = 2 km., ver. 0.01 m = 20 m. 21.9 x 51. 4 additional copies (unmounted) on file.

445. MAPA EN RELIEVE DE LA CORDILLERA DE LOS ANDES. The Andes between Mendoza, Argentine and Valparaiso, Chile on the Pacific Coast; elevation of mountains; route of Buenos Aires and Pacific Railway. Com.,

phy. Col. 19.8 x 9.8.

Buenos Aires and Pacific railway, n. d., back.

446. THE ANTOFAGASTA (CHILI) AND BOLIVIA RLY. COY. LTD., Waterlow and Sons, London. 07° to 25°30' latitudes S. and 57° to 74°45' longitudes W. of Greenwich. Parts of Argentine, Brazil, Bolivia, Chile, and Peru. Cities and towns; route of Antofagasta Railway; Bolivia Railway in operation and under construction; other railways in operation and proposed. Com., phy., pol. Col., mntd. 1: 2,500,000. 80.4 x 68.9. Inset: Map of South America. 15.7 x 11.7. 1 additional copy and 1 photostatic copy on file.

447. ARGENTINA-BRAZIL-URUGUAY, NORTH. South G-H, 21-22. Preliminary edition, subject to correction. 24° to 32° latitudes S. and 46° to 60° longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 46.2 x 68.3.

448. ARGENTINA, EAST-URUGUAY, SOUTH. South I-J, 21-22. Preliminary edition, subject to correction. 32° to 40° latitudes S. and 48° to 60° longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 46.5 x 52.8.

449. MAP OF PART OF THE DESERT OF ATACAMA, Edwd. Weller, John Murray, London, 1877. Published for the Journal of the Royal Geographical Society, to accompany the Paper by Mr. Joiah Harding. 22° to 24°20' latitudes S. and 67°40' to 71°10' longitudes W. of Greenwich. Lead mines, railways and roads, rivers, towns of southwestern Bolivia and northeastern Chile. Com., econ., phy., pol. Col., mntd. 1 1/2 in. = 30 mi. 19.6 x 25.5.

450. MAP OF THE DISTRICT OF ATACAMA SHOWING THE TERRITORY IN DISPUTE BETWEEN CHILI & BOLIVIA, W. J. Turner, Edwd. Weller, Lith., The Royal Geographical Society, 1879. 21°20' to 24°15' latitudes S. and 68°06' to 71°15' longitudes W. of Greenwich. Cities and towns, railways of western Bolivia, northern Chile, and southern Peru. Com., phy., pol. Col., mntd. 1 1/4 in. = 30 mi. 22 x 22.

451. RAILROAD MAP OF BOLIVIA AND ADJACENT COUNTRY, The Engineering and Mining Journal, ca. 1910. 16° to 24° latitudes S. and 65° to 75° longitudes W. of Greenwich. Cities and towns; mining regions; A. and B. Railroad; Bolivia Railroad, existing and proposed; Huanchaca Railroad; other railways; roads; stations. Com., phy., pol. 1 1/16 in. = 150 mi. 16.3 x 16.6.

Hawxhurst, 1910, p. 910.

452. KARTENSKIZZE DIE VERBREITUNG DER INDIANERSTÄMME IN DEN GRENZGEBIETEN BOLIVIENS UND ARGENTINIENS DARSTELLEND. 19° to 24°15' latitudes S. and 60° to 64°45' longitudes W. of Greenwich. Distribution of Indian families on boundary dividing Bolivia and Argentine, military posts, missions, paths, roads. Com., ethnog., mil., phy., pol. Sha. 25.4 x 21. Inset: South America, location of region. 6 x 4.8.

Nordenskiöld, 1912, back.

453. BOLIVIA AND PERU WITH A PART OF BRAZIL, J. and C. Walker, Engr., Society for Diffusion of Useful Knowledge. South America, Sheet VI. 05° to 23° latitudes S. and 57° to 81°40' longitudes W. of Greenwich. Bays, bridges, capes, cities and towns, forts, hills, inns, islands, lakes, mountains, ports, roads, volcanoes. Distribution of native tribes. Com., ethnog., mil., phy., pol. Mntd., sha. 3 3/4 in. = 400 mi. 30.4 x 39.4.

454. BOLIVIA SEEKS OUTLET TO SEA. Comparative length of coast lines of Chile, Peru, and coast line claimed by Bolivia; territory taken from Bolivia and Peru; provinces of Arica and Tacna disputed by Chile and Peru. Com., pol. Sha. 11.3 x 10.1.

455. MAPA QUE MANIFIESTA LA REGION NORTE DE BOLIVIA EN CUYO EXTREMO OCCIDENTAL SE ENCUENTRA LA ZONA EN LITIGIO. 07° to 16° latitudes S. and 60° to 75° longitudes W. of Greenwich. Boundary disputed with Peru in the extreme northwestern portion of Bolivia. Railways, distribution of Indian tribes. Com., ethnog., pol. Sha. 2 7/8 in. = 200 mi. 37.5 x 61.4.

Saavedra, 1906, v. 1, f.p. 20.

456. [PARTS OF BOLIVIA AND BRAZIL], Eduardo Idiaquez, 1901. From map made by order of General José Manuel Pando. 08° to 14° latitudes S. and 61° to 70° longitudes W. of Paris. Com., pol. Pho. 28.1 x 24.2. 3 additional copies on file.

457. [PARTS OF BOLIVIA, CHILE, AND PERU], Eduardo Idiaquez, 1901. From map made by order of General José Manuel Pando. To accompany Letter No. 100 from Dr. Frederick L. Hoffman's Letters of South American Trip. Nos. 1-100, 1921. 13°10' to 18°20' latitudes S. and 68°40' to 73°30' longitudes W. of Paris. Cities and towns, railways. Com., phy., pol. Pho. 28.5 x 24.5. 4 additional copies on file.

458. MAP OF THE BOLIVIAN GRAN CHACO, J. O. Concha, ca. 1932. 16° to 25° latitudes S. and 57° to 63° longitudes W. of Greenwich. Bolivian forts and outposts, Paraguayan forts and outposts unlawfully built in Bolivian territory, cities and principal towns, highways, mission, roads, routes followed by explorers, trails. Com., mil., phy. 1: 2 000 000. 27.4 x 22.9.

Decker, 1932, pp. 16-17.

459. MAPS TO ILLUSTRATE A PAPER ON EXPLORATIONS AND BOUNDARY SURVEYS IN BOLIVIA BY MAJOR P. H. FAWCETT, R. A. [RET'D.], The Royal Geographical Society, London, 1910. 09° to 20° latitudes S. and 57° to 70°50' longitudes W. of Greenwich. Route followed by Major Fawcett in his explorations from Puno, Peru to La Paz, Bolivia, and along the Beni River, the ascent of the Alto Acre, search for the sources of the Iquity Rapirran Rivers and the descent of the Abuna to its confluence with the Madeira, the Guapore to the source of the Verde, thence to Corumba. Com., phy., pol. Col., mntd. 1: 5,000,000. 29.9 x 31.3. Two maps on larger scale, 1: 2,500,000, showing sections covered in explorations and boundary surveys: I. Bolivia, Brazil, and Peru. 09°30' to 11°30' latitudes S. and 65° to 70° longitudes W. of Greenwich. 10.2 x 24.2. II. Bolivia and Brazil. 14° to 20° latitudes S. and 57° to 61° longi-

tudes W. of Greenwich. 29.9 x 16.3.

460. BRAZIL, J. Colton and Co., New York, 1855. 10° N. to 35° S. latitudes and 35° to 70° longitudes W. of Greenwich. Capitals, cities, and principal towns; distribution of Indian tribes; location of diamond region; railways; rivers; territory under dispute. Com., econ., ethnog., phy., pol. 2 in. = 400 mi. 42 x 31.5. 2 insets: 1. Rio de Janeiro. 7 x 8.3. 2. Pernambuco. 5 x 5.5.

Kidder and Fletcher, 1857, front.

461. COLTON'S BRAZIL AND GUAYANA, G. W. and C. B. Colton and Co., New York, 1855. 10° N. to 35° S. latitudes and 35° to 70° longitudes W. of Greenwich. Capitals, cities and principal towns; distribution of Indian tribes; location of diamond region; railways; rivers; territory under dispute. Com., econ., ethnog., phy., pol. 2 in. = 400 mi. 42 x 31.5. 2 insets: 1. Rio Janeiro. 7 x 8.3. 2. Pernambuco. 5 x 5.5.

Kidder and Fletcher, 1866, front.

462. BRAZIL AND GUIANA, Rand McNally and Co., Chicago, 1911. 09° N. to 34° S. latitudes and 34° to 65° longitudes W. of Greenwich. Capitals, principal cities and towns, railways, roads. Distribution of Indian Tribes. Table giving population of states and towns. Com., ethnog., phy., pol., stat. Col. 1 in. = 120 mi. 66.3 x 47.5.

463. RAND MCNALLY POPULAR MAP OF BRAZIL AND GUIANAS, Rand McNally and Co., Chicago. 09° N. to 34° S. latitudes and 35° to 68° longitudes W. of Greenwich. Capitals, principal cities and towns; railways; roads. Com., pol. Col. 1 in. = 250 mi. 31.4 x 23.4.

Cooper, 1917, back.

464. SCHEMA DA CARTA DO BRAZIL MOSTRANDO O ITINERARIO DA EXPEDICAO ROOSEVELT-RONDON, Lieutenant Lyra, Escriptorio Central da Comissao Telegraphica, 1914. 05° N. to 35° S. latitudes and 10° E. to 30° W. longitudes from Rio de Janeiro. To illustrate the Roosevelt-Rondon Expedition from Asuncion, Paraguay to Para', Brazil. Routes followed by: 1. Fiala, along the course of the Papajaio and Tapajos Rivers to the Amazon. 2. Theodore Roosevelt, along the River of Doubt to the Amazon. 3. Miller, down the Madeira River to the Amazon. Outl. Com., pol. 1: 15,000,000. 30.4 x 30.9.

Roosevelt, 1914, back.

465. [BRAZIL AND PERU], Algot Lange, 1910. 04° to 06°45' latitudes S. and 70° to 72° longitudes W. of Greenwich. Sketch map of the region explored by Algot Lange showing deviations from Steiler's Atlas, location of gold deposit in the Caoutchouc Region. Sketch. Econ. 1 3/8 in. = 36 mi. 17.8 x 13.2.

Lange, 1912, back.

466. MAP SHOWING THE LANDS GRANTED BY SPAIN TO PORTUGAL ON THE WEST OF THE LINE OF THE TREATY OF TORDESILLAS. 1494. AND THE TERRITORIES ACQUIRED BY BRAZIL ON THE WEST OF THE BOUNDARY FIXED BY THE TREATY OF 1777, Estanislao S. Zeballos, Washington, 1894. 11° N. to 55° S. latitudes and 32° to 84° longitudes W. of Greenwich. Boundaries

according to the Treaty of Tordesillas, Treaty of 1777, and actual boundary of Brazil; cities and towns; rivers. Com., hist., pol. Col. 50 x 40.8.

Saavedra, 1906, f.p. 80.

467. REPUBLICA DE CHILE, Boloná i Ossandon, Oficina de Mensura de Tierras, Sociedad Imprenta i Litografia Universo, Santiago. 17° to 25° latitudes S. and 67° to 70°50' longitudes W. of Greenwich. Parts of Bolivia and Chile. Report provides meteorological data and astronomical observations. Railway time table shows stations, altitude and distance of various railways. Map composed of 8 sections. Com., phy., pol. Pho. Each section: 31.5 x 53.3. 1 additional copy on file. 2 copies of section, 17° to 21° latitudes S. and 68° to 68°40' longitudes W. of Greenwich. 31.5 x 24.2. 1 copy of section, 21° to 23° latitudes S. and 69° to 70°50' longitudes W. of Greenwich. 31.5 x 24.2.

468. CHILE-ARGENTINA, CENTRAL. South I-J, 19-20. Preliminary edition, subject to correction. 32° to 40° latitudes S. and 60° to 74° longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 46.2 x 61.4.

469. CHILE-ARGENTINA, EXTREME SOUTH. South M-N, 19-20. Preliminary edition, subject to correction. 48° to 56° latitudes S. and 57° to 76° longitudes W. of Greenwich. Principal cities and towns, roads. Com., pol. Mntd. 46.2 x 72.4.

470. CHILE-ARGENTINA, NORTH. South G-H, 19-20. Preliminary edition, subject to correction. 24° to 32° latitudes S. and 60° to 72° longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 46.2 x 62.6.

471. CHILE-ARGENTINA, SOUTH. South K-L, 19-20. Preliminary edition, subject to correction. 40° to 48° latitudes S. and 60° to 76° longitudes W. of Greenwich. Principal cities and towns, railways, roads. Com., pol. Mntd. 46.4 x 70.1.

472. CHILE AND PATAGONIA, Stanford's Geographical Establishment, London, ca. 1885. 24° to 56° latitudes S. and 64° to 75° longitudes W. of Greenwich. Capitals, principal cities and towns, railways, rivers, roads of Chile and the Confederation of Argentina. Com., phy., pol. Col. 1 1/4 in. = 100 mi. 16.3 x 69.4.  
Bates, 1885, f.p. 373.

473. RICHARD MAYER'S COMMERCIAL MAP OF NORTHERN CHILE-BOLIVIA & SOUTHERN PERU, Richard Mayer, London, 1912. 15°30' to 26° latitudes S. and 65° to 72°30' longitudes W. of Greenwich. Borax and nitrate deposits; mines; railways in operation, under construction, and proposed; roads; steamer routes; volcanoes. Peruvian provinces in possession of Chile. Com., econ., pol. Col., mntd. 1:1,000,000. Altitudes in meters. 117.5 x 75.1.

474. [NORTHERN CHILE, SOUTHWEST BOLIVIA]. 20°10' to 25°30' latitudes S. and 35°10' to 71° longitudes W. of Greenwich. Antofagasta section, railways in operation and under construction, roads, state and pro-



vincial capitals, cities and towns, estates, hamlets, major and minor ports. Com., phy., pol. Pho. 23.5 x 25.5.

475. DIE KORDILLEREN VON COLOMBIA UND VENEZUELA. 00° to 13° latitude N. and 68° to 80° longitudes W. of Greenwich. The Central, Coast, East, and West mountain ranges of Colombia and Venezuela. Phy. 1: 10 000 000. 14.2 x 13.

Sievers, 1914, p. 407.

476. ECUADOR AND PERU WITH PARTS OF COLOMBIA, BRASIL AND BOLIVIA, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE EXISTING AND PROJECTED RAILROADS, Intercontinental Railway Commission, A. Eoen and Co., Lith., Baltimore, 1898. 00° to 17° latitude S. and 68° to 82° longitudes W. of Greenwich. International boundaries (partly in dispute), principal cities and towns, proposed location of the Intercontinental Railway and extensions, existing and projected railways. Com., phy., pol. Col., mntd. 1: 1,800,000. 105 x 85.7. 1 additional copy (unmounted) on file.

477. ECUADOR, GRANADA, VENEZUELA AND PARTS OF BRAZIL AND GUIANA, J. and C. Walker, Sc., Charles Haght and Co., ca. 1841-53.\* 12°30' N. to 06° S. latitudes and 58°20' to 82°30' longitudes W. of Greenwich. Cities, towns, villages (population of certain towns along the Rio Orinoco and Rio Negro), geological, historical, hydrographic and military data, roads. Projected waterway communication between the Atlantic and Pacific: 1. Canal of Panama, proposed as the shortest line for uniting the Atlantic and the Pacific by means of the Trinidad, or western branch of the River Chagre, and the River Chorrera. 2. Proposed Canal of Cupica, uniting the river of that port (in Colombia) with the Naipi and Atrato. 3. Canal of Rspadura constructed in 1783 by a monk of Novita. It unites the S. Juan to the Atrato, and in the wet season still carries boats from one ocean to the other. Com., geol., hist., hydro., mil., phy., pol., stat. Mntd. 32 x 40.6.

478. ROUTE FOLLOWED BY ANTONIO DE BERRIO IN QUEST OF EL DORADO, H. M. R., Pan American Union, ca. 1912. 04° to 13° latitudes N. and 60° to 76° longitudes W. of Greenwich. Route followed by Antonio de Berrio from San Jose, Trinidad to Santo Tome, Venezuela along the Orinoco and Casamare Rivers to Bogota, Colombia, 1584. Sketch. Com., hist., phy. 5.5 x 9.2.

Zahn, 1917, p. 111.

479. ROUTE FOLLOWED BY SEBASTIAN DE BELALCAZAR IN QUEST OF EL DORADO, H. M. R., Pan American Union, ca. 1912. 06° to 02° S. latitudes and 73° to 81° longitudes W. of Greenwich. Route followed by

\* This map could not have been published before 1841 because it incorporates results of Schomburgh's journeys, 1835-38, published in 1841. Must be earlier than

1853 because it is included in General Atlas Published Under the Superintendence of the Society for the Diffusion of Useful knowledge, George Cox, London, 1853.

Sebastian de Belalcazar from Quito, Ecuador to Bogota', Colombia. Sketch. Com., hist., phy. 7.5 x 8. Inset: South America, location of area covered by main map. 3.1 x 2.1.

Zahm, 1917, p. 33.

480. ROUTE FOLLOWED BY THE FRANCISCAN LAY BROTHERS IN QUEST OF EL DORADO, H. M. R., Pan American Union, ca. 1912. 13° N. to 05° S. latitudes and 42° to 82° longitudes W. of Greenwich. Route followed by the Franciscan Lay Brothers from Quito, Ecuador along the Napo and Amazon Rivers to Para', Brazil. Sketch. Com., hist., phy. 9.1 x 16.2. Inset: South America, location of area covered by main map. 3.5 x 2.5.

Zahm, 1917, p. 135.

481. ROUTE FOLLOWED BY SIR WALTER RALEIGH IN SEARCH OF EL DORADO, H. M. R., Pan American Union, ca. 1912. 08° to 13° latitudes S. and 60° to 63° longitudes W. of Greenwich. Route followed by Walter Raleigh from the island of Trinidad, to the delta of the Orinoco River along its course to its tributary, the Caroni, eastern Venezuela. Com., phy. 8 x 10. Inset: South America, location of area covered by main map. 3 x 2.2.

Zahm, 1917, p. 149.

482. ROUTES FOLLOWED IN THE QUEST OF EL DORADO, H. M. R., Pan American Union, ca. 1912. 10° N. to 05° S. latitudes and 50° to 80° longitudes W. of Greenwich. Routes followed by: 1. G. Fizarro in Ecuador, from Quito, along the Coca River to its junction with the Napo River, 1541-42. 2. F. de Orellana, from the junction of the Coca River along the Napo and Amazon Rivers to Para', thence, to the island of Cubagua, off the north coast of Venezuela, 1541-42. 3. F. P. Quesada, from Tunja north of Bogota', Colombia to Pasto, eventually reaching the headwater of the Caqueta and returning to Bogota', 1545-46. 4. P. von Hutten, from Coro by sea to Burburata, Venezuela, through Venezuela, Brazil, and Colombia to Nuestra Señora and to Timana, facing about and returning to Nuestra Señora, thence, to the land of the Omaguas between the Guaviare and the Caqueta or Japura, returning to Nuestra Señora, 1541. Com., hist., phy. 7.9 x 13.6. Inset: South America, location of area covered by main map. 3 x 2.2.

Zahm, 1917, p. 53.

483. ROUTES FOLLOWED IN THE QUEST OF EL DORADO, H. M. R., Pan American Union, ca. 1912. 13° N. to 18° S. latitudes and 60° to 82° longitudes W. of Greenwich. Routes followed by: 1. P. de Ursua, from Lima, Peru down the Huallaga and Amazon Rivers, from thence the expedition commanded by L. de Acuirre, proceeded via the Casiquiare along the Negro and Orinoco Rivers to the island Margarita, northern coast of Venezuela, 1560. 2. M. de Proveda, from Chachapoyas, Peru, along the route taken by Ursua as far as the Napo River, hence northward to Bogota. 3. P. de Silva: A. First expedition, from Barburata to Barquisimeto, Venezuela in a circular route. b. Second expedition, from the mouth of the Orinoco River to a place about ninety leagues up the Orinoco (65° longitude W. of Greenwich). 4. G. J. de Quesada from Bogota to a point near the present Pueblo of San Fernando de Atabapo, at the confluence of the Guaviare and the Orinoco. Sketch.

Com., hist., phy. 8.7 x 8. Inset: South America, location of area covered by main map. 2.5 x 1.8.

Zahn, 1917, p. 77.

484. MAP OF EQUATORIAL AMERICA, James Orten. 03° N. to 07° S. latitudes and 46°10' to 82° longitudes W. of Greenwich. Course of the Amazon River and its tributaries, cities and towns, distribution of Indian tribes. Com., ethnog., phy., pol. Mntd. 2 3/16 in. = 200 mi. 20.3 x 68.4.

485. DIE FALKLANDINSELN. 51° to 52°30' latitudes S. and 57°40' to 61°20' longitudes W. of Greenwich. Falkland Islands off the southeast coast of South America. Cities, harbors, and towns, land elevations, minor islands. Phy. 1: 2 000 000. 9 x 13.2. Inset: Fort Stanley. 1: 130 000. 4.3 x 2.8.

Sievers, 1914, p. 50.

486. MAP OF FUEGIA SHOWING DISTRIBUTION OF AUTOCHTHONOUS TRIBES, Charles Wellington Furlong, ca. 1917. 52° to 56° latitudes S. and 64° to 75° longitudes W. of Greenwich. Land occupied by the Alaculoof, Huash, Ona and Yahgan tribes. Outl. Ethnog., pol. 7.8 x 12.6.

Furlong, 1917, f.p. 224.

487. MAPA DE LA GOBERNACION DE JUAN ALVAREZ MALDONADO EN 1567 Y 1568, E. Idiaques, 1906. 02° to 18° latitudes S. and 64° to 80° longitudes W. of Paris. Boundary of the Grant of Juan Alvarez Maldonado, in what is now northwestern Bolivia and western Brazil and eastern Peru. Routes followed by Manuel Escobar, J. Alvarez Maldonado, and Gomes de Tordoya on their explorations from Cuzco, Peru to the Madre de Dios and Beni Rivers, Bolivia and Brazil. Com., hist., phy., pol., land tenure. Sha. 43.2 x 42.7. Inset: South America. 12.2 x 8.8.

Saavedra, 1906, v. 1, f.p. 176.

488. MAPA DE LA GOBERNACION DE JUAN ALVAREZ MALDONADO EN 1567 Y 1568, E. Idiaques, 1906. 07° to 16° latitudes S. and 67° to 74° longitudes W. of Paris. Photostatic copy of central portion of map from Bautista Saavedra, Defensa de los Derechos de Bolivia, v. 1, f.p. 176. Com., hist., phy., pol., land tenure. Pho. 25.8 x 20.4.

489. THE GRAND CHACO, ARGENTINE REPUBLIC, F. S. Waller, ca. 1889. To illustrate the journeys of Captain John Page, Argentine Navy. 20° to 31° latitudes S. and 58° to 64° longitudes W. of Greenwich. Disputed area between Argentina, Bolivia, and Paraguay. Railways in operation and under construction. Com., phy., pol. Pho. 1: 6,850,000. 17.9 x 10.7.

Page, 1889, p. 130.

490. THE DISPUTED GRAN CHACO, ca. 1930. 17° to 27° latitudes S. and 54° to 64° longitudes W. of Greenwich. Territory of Gran Chaco or Chaco Boreal claimed by Paraguay, boundary between Bolivia and Paraguay as fixed by treaties of 1879, 1887, 1894, boundary claimed by Paraguay 1929. Hist., mil., pol. Sha. 11.3 x 10.

Knowles, 1930, p. 12.

491. GUAYANA AND NORTH BRAZIL, J. and C. Walker, Engr., Baldwin and Gradock, London, 1836. Published under the superintendence of the Society for the Diffusion of Useful Knowledge. South America, Sheet II. 06° N. to 12° S. latitudes and 35°30' to 58°30' longitudes W. of Greenwich. Bays, capes, cataracts, cities, ports and towns, forts, islands, lakes, mountains, points, paths and roads. Com., phy., pol. Sha. 2 3/4 in. = 300 mi. 32.5 x 40.5.

492. [GUAYAQUIL TO PARÁ]. Route taken by Herbert Spencer Dicky from Guayaquil to Pará via Quito, Archedona, Iquitos, Loreto, Teffe, Mandos, Obidos, Marajo' Island, in the northern part of South America. Com., phy., pol. 8 x 10.  
Dickey, 1921, p. 5.

493. MAP OF GUIANA BY THEODOR DE BRY, 1599. Eastern Venezuela along the Orinoco River and its tributaries, region formerly known as Guiana. Map exhibits places mentioned by Raleigh in his Discoverie of Guiana. Reduced copy of old map showing gold bearing regions, regions thought to be inhabited by Amazons and a race of headless men, supposed location of El Dorado on Lake Manoa. Econ., ethnog., hist., phy. 9.6 x 8.  
Zahm, 1917, p. 187.

494. SECTION OF RALEIGH'S MAP OF GUIANA, Hondius, ca. 1595. The northeastern part of South America. Location of Lake and City of Manoa or El Dorado, 02° N. to 01°45' S. latitudes, according to the geographer Hondius who based his map on Raleigh's explorations, 1595. Hist., phy. 9.6 x 8.  
Zahm, 1917, p. 167.

495. MAP OF THE RIVERS HUALLAGA, UCAYALI & AMAZON, John Tyssowski, A. Hoen and Co., Lith., Baltimore, ca. 1854. From the observations of Lieutenant Wm. L. Herndon. 00° to 12° latitudes S. and 48° to 77° longitudes W. of Greenwich. Course of the Huallaga, Ucayali, and Amazon Rivers and their tributaries from Lima, Peru to Pará, Brazil; currents and depths of rivers; cities, estates, forts, towns, and villages; land route and survey stations of exploring expedition under command of Wm. L. Herndon. Com., hydro., phy. Mntd. 64.8 x 148.2.  
Herndon and Gibbon, 1854, atlas.

496. TRAILS AND CORRALS OF THE LAKE HUASCO REGION, Isaiah Bowman, ca. 1909. Bolivia and Chile in the region of 20°20' latitudes S. and 68°50' longitudes W. of Greenwich. Old corrals, marsh and grass lands, springs, trails. Com., phy. Pho. 1: 250,000. 6.4 x 9.4.  
Bowman, 1909, p. 273.

497. THE LAKE HUASCO REGION OF CHILE AND BOLIVIA, Isaiah Bowman, ca. 1909. Based on Military maps of the Oficina de Limites, Chile, and on surveys of the Yale South America Expedition of 1907. 20°10' to 20°25' latitudes S. and 68°35' to 69° longitudes W. of Greenwich. Corrals, drainage, springs, trails. Com., phy., pol. Pho. 1: 500,000. Elevations in feet. 5.8 x 8.9.  
Bowman, 1909, p. 273.

498. LA PAZ, The National Geographical Society, Washington. 16° to 20° latitudes S. and 66° to 72° longitudes W. of Greenwich. Cities and towns, railways, roads, detailed topography of southwestern Bolivia, northern Chile and southern Peru. Com., hydro., phy., pol. Col., mntd. 1: 500 000. 125.6 x 89.4.

499. THE RIO DE LA PLATA ect., Stanford's Geographical Establishment, London, ca. 1885. 29° to 37° latitudes S. and 50° to 74° longitudes W. of Greenwich. Course of the Rio de La Plata and tributaries through Argentine, Brazil, Chile, and Uruguay. Railways; submarine telegraph cables. Com., phy., pol. Col. 1 3/4 in. = 100 mi. 16.2 x 44.8.

Bates, 1885, f.p. 385.

500. DEMONSTRACION GEOGRAFICA DE LAS PROVINCIAS QUE ABRAZA CADA INTENDENCIA DE LAS ESTABLECIDAS EN LA PARTE DEL PERU, PERTENECIENTES A EL VIRREINATO DEL RIO DE LA PLATA, Joaquin Atós, 1783. Copy of old Spanish map made by order of the Viceroy, showing the provinces which comprise the Intendencia established in that part of Peru which comes under the rule of the Viceroy of Rio de la Plata. Territory at present comprised in northern portions of Argentine and Chile, and western Bolivia. Hist., pol. Col. 4.7 cm = 40 le. 28.2 x 30.4.

Saavedra, 1906, v. 1, f.p. 300.

501. MAP OF THE ROUTE FROM LIMA TO THE MISSION OF SARAYACU, J. and C. Walker, John Murray, London, 1836. From the observations of Lieutenant Wm. Smyth and Mr. Frederick Lowe, 1834 and 1835. 06° to 12°30' latitudes S. and 72°30' to 77°30' longitudes W. of Greenwich. Route taken along the Huallaga River and its tributaries, cities and towns, roads. Com., phy. Sha. 2 3/4 in. = 100 mi. 34.2 x 28.

Smyth and Lowe, 1836, back.

502. MAP OF ROUTE FOLLOWED BY LIEUT. LARDNER GIBBON, U. S. NAVY, 1851-52, ON HIS EXPLORING EXPEDITION FROM THE PACIFIC TO THE ATLANTIC OCEAN [LIMA, PERU TO PARA, BRAZIL], F. A. Godoy, ca. 1910. 10° N. to 20° S. latitudes and 32° to 86° longitudes W. of Greenwich. From Lima, Peru to La Paz, Bolivia, and along Madeira, Mamoré, and Amazon Rivers to Para, Brazil. Outl. Com. 11.1 x 17.2.

Lardner Gibbon's explorations in South America, 1910, p. 452.

503. E. DE F. MADEIRA E MAMORÉ, J. C. R. 1913. Northeastern Bolivia and western Brazil along the Madeira and Mamoré Rivers. The existing railway between Porto Velho and Guajara Mirim, Brazil; projected railways between Guayaramerin and Riberalta, Bolivia and between Abuna, Brazil and Tambaqui, Bolivia. Com. Blueprint, mntd. 12.5 cm = 100 km. 45.2 x 39.3. Inset: South America, showing the location of area covered by main map. Com., pol. 25.1 x 20.2.

504. MADEIRA-MAMORÉ RAILWAY, Waterlow and Sons, London, ca. 1914. 02° N. to 22° S. latitudes and 45° to 85° longitudes W. of Greenwich. Principal cities and towns, route of Madeira-Mamoré Railway from Porto Velho to Guajara Mirim, Brazil and Villa Bella to Riberalta, Bolivia, navigable rivers feeding the railway, other railways, steamer routes. Com., phy., pol. Col. 22.9 x 38.4.

Walle, 1914, p. 408.

505. MAP OF THE MADEIRA-MAMORÉ RAILWAY, Waterlow and Sons, London, 1910. 07°20' to 19° latitudes S. and 52°30' to 72°15' longitudes W. of Greenwich. Area comprised in the Mutum-Parana Concession owned by Madeira-Mamoré Railway in Brazil and Bolivia; cataracts of Madeira River; cities and towns; distribution of Indians; railways and roads. Com., ethnog., phy., pol. Col., mntd. 38.3 x 62.2. Inset: Key Map of South America, Showing the Madeira-Mamoré Railway. 13° N. to 56° S. latitudes and 30° to 85° longitudes W. of Greenwich. Transatlantic routes to important ports of the world. 20.3 x 18.1. 3 copies with legend of conventional references in French, and 6 reduced photostatic copies. 5 copies of section, 07°20' to 16° latitudes S. and 62° to 72° longitudes W. of Greenwich. 27.5 x 31.4. 1 copy of section, 07°20' to 16° latitudes S. and 62° to 68°45' longitudes W. of Greenwich. 27 x 20.8.

506. PLAN OF THE MADEIRA AND MAMORÉ RAILWAY, E. F. G., ca. 1907. Survey line of Madeira and Mamoré Railway from San Antonio, Brazil to Estação Mamoré, Brazil, distance from San Antonio. Com. 4.8 cm = 20,000 m. 17.3 x 67.1.  
Craig, 1907, f.p. 464.

507. ROUTE OF RAILROAD AROUND THE FALLS OF MADEIRA, ca. 1908. Northern Bolivia, northwestern Brazil, and eastern Peru. Principal cities and towns, rivers. Com., pol. 7.8 x 8.8.  
Tucker, 1908, p. 34.

508. MAP OF THE MADEIRA AND MAMORÉ RIVERS, BETWEEN SAN ANTONIO AND GUAJARÁ-MERIM, The Matthews Northrup Works, Buffalo. Reduced from the survey of Franz Keller. Madeira and Mamoré Rivers through Bolivia and Brazil from the Falls of San Antonio to the Rapids of Guajará-merim; falls, rapids, tributaries. Sketch. Col. 3 3/4 in. = 30 mi. 17.8 x 45.6.  
Craig, 1907, f.p. 50.

509. DESCRIPCION GEOGRAFICA DEL RIO MAMORÉ O MADERA EN LA AMERICA AUSTRAL DEL DOMINIO DE LA CORONA DE ESPAÑA, Carlos Hirschko, 1782. 00° to 20° latitudes S. and 300° to 329° longitudes E. of Isla del Ferro. Reduced copy of old Spanish map of parts of Bolivia, Brazil, and Peru. Phy., pol. Sha. 19 x 25.7.  
Saavedra, 1906, v. 2, f.p. 190.

510. SKETCH MAP ILLUSTRATING COL. A. P. LABRE'S EXPLORATIONS IN THE VICINITY OF THE MADEIRA, PURUS & BENI RIVERS, W. J. Turner, for the Proceedings of the Royal Geographical Society, London, 1889. Madeira River from surveys of Selfridges and J. and F. Keller; Beni and Mamoré from Heath; Purus and Aquiri from Chandless. 07°10' to 12°40' latitudes S. and 60°40' to 68°10' longitudes W. of Greenwich. Proposed roads, navigable rivers, limits of steam navigation, towns, and villages. Com., hydro. Mntd. 1: 3,000,000. 22 x 29.4. Inset: Parts of Argentina, Bolivia, Brazil, Chile, and Peru. 00° to 25° latitudes S. and 55° to 75° longitudes W. of Greenwich. 10.2 x 8.5. 5 photostatic copies (1 mntd.) 21.1 x 28.4. 1 photostatic copy of section, 07°10' to 12°40' latitudes S. and 62°40' to 68°10' longitudes W. of Greenwich. 21.2 x 20.

511. DIE MAGALHÄESSTRASSE. 52° to 56° latitudes S. and 65° to 75° longitudes W. of Greenwich. Extreme southern portions of Argentine and

Chile. Strait of Magellan and Cape Horn. Phy., pol. 1: 5 125 000.  
8.6 x 13.

Sievers, 1914, p. 56.

512. MOLLENDO TO PARA. Elevation in feet above sea level of route from Mollendo, Peru to Pará, Brazil via Colca, Juliaca, Puno, La Paz, Pongo, La Asunta, Rurrenabaque, Lake Rogagua, Lake Roguaguado, Villa Bella, San Antonio, mouth of the Madeira River. Pro. Com., phy. Ms., mntd. 41.1 x 76.1.

513. MAP OF THE FAUCARTAMBO AND CARABAYA VELLEYS, Erhard, Engr., ca. 1894. 09° to 15° latitudes S. and 67° to 76° longitudes W. of Paris. Forests, limits of exploration, rivers. Econ., phy. Sha. 15.7 x 22.8. Guillaume, 1894, f.p. 288.

514. MAPA QUE DEMUESTRA LA LINEA DE FRONTERA ENTRE EL PERÚ Y BOLIVIA SEGUN SUS TITULOS DE DERECHO, Eduardo Ydiaquez, La Paz, 1906. 06° to 15° latitudes N. and 64° to 77° longitudes W. of Paris. Legal boundaries between Bolivia and Peru and between Bolivia and Brazil according to the treaties of 1777 and 1903. Hist., phy., pol. Col. 1: 2 000 000. 52.3 x 74.

Saavedra, 1906, v. 2, f.p. 286.

515. PARTS OF PERÚ, CHILE, BOLIVIA, ARGENTINA, AND BRASIL, WITH PARAGUAY AND URUGUAY, SHOWING CONNECTION BETWEEN THE INTERCONTINENTAL RAILWAY AND THE EXISTING AND PROJECTED RAILROADS, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. Junctions of the Intercontinental Railway and the existing and projected railways. Com., phy., pol. Col. 1: 5,400,000. 52.3 x 71.3.

Intercontinental railway commission, 1895-98, v. 1, back.

516. LE PEROU DANS L'AMERIQUE DU SUD, M. Babiola and Co., Lith., ca. 1902. 13° N. and 55° S. latitudes, showing the relative position of Peru in South America; navigation, and railways of Peru. Outl. Com., pol. Col. 16.9 x 10.5.

Peru. Ministerio de agricultura y trabajo público, [1902], front.

517. PERU IN SOUTH AMERICA, Guggenheimer, Weil and Co., Lith., Baltimore. 13° N. to 56° S. latitudes. Outline map showing position of Peru in South America. Bridle path and railway, rivers. Com., pol. Col. 16.9 x 10.5.

Peru. Ministerio de agricultura y trabajo público, n.d., front.

518. SOUTH PERU AND NORTH BOLIVIA INCLUDING THE RUBBER YIELDING MONTANA, The Royal Geographical Society, London, 1910. 08° to 18° latitudes S. and 65° to 74° longitudes W. of Greenwich. Capitals, cities, farms, hamlets, towns and villages, railways in operation and proposed. Com., econ., phy., pol. Col., mntd. 1: 2,000,000. 56.8 x 49.5. Inset: Northern Bolivia, western Brazil, and southern Peru, showing points where adjustments were made in latitude and longitude by astronomical observations, regions mapped from triangulation and traverses, unexplored regions. 08° to 18° latitudes S. and 64° to 74° longitudes W. of Greenwich. 1: 10,000,000. 11.7 x 11.5. 5 photostatic copies of section, 09°40' to 16° latitudes S. and 65° to 69° longitudes W. of Greenwich.

34.2 x 22.4. 1 photostatic copy of section, 10° to 15° latitudes S. and 65° to 69° longitudes W. of Greenwich. 26 x 20.7.

519. SKETCH MAP SHOWING ROUTES OF COMMUNICATION BETWEEN R. R. TERMINUS AT PUNO AND THE GOLD MINES AT TIPUANI, G. W. and C. B. Colton and C., New York, ca. 1889. To accompany the Report of F. G. Corning. 14°45' to 16°45' latitudes S. and 67° to 70°30' longitudes W. of Greenwich. Principal cities and towns, railway, mule and stage roads, steamer route across Lake Titicaca. Com., econ., pol. 1 5/8 in. = 60 mi. 10 x 16.4. Corning, 1889, p. 51.

520. QUITO, ECUADOR TO CUZCO, PERU, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. Profile IV. From Quito, Ecuador to Cuzco, Peru. Elevation of route of proposed Intercontinental Railway, existing and projected railways. Pro. Com., phy. Hor. 1: 2,534,400, ver. 1: 72,000. Elevations in feet. 26.6 x 22.1. Intercontinental railway commission, 1895-96, v. 1, back.

521. MAPA DEL VIRREYNATO DE SANTA FE Ó DEL NUEVO REYNO DE GRANADA EN 1739, Eduardo Ydiaquez, 1906. 13° N. to 20° S. latitudes and 60° to 84° longitudes W. of Paris. Audiencia de Charcas, Audiencia de los Reyes, Audiencia de San Francisco, Audiencia de Santa Fé, Virreynato del Perú. Com., hist., phy., pol. Sha. 33.5 x 26.5. 3 photostatic copies on file. 25.8 x 20.5. Saavedra, 1906, v. 1, f.p. 264.

522. SOUTH AMERICA, J. N. Matthews Co., Buffalo, ©1915. 13° N. to 56° S. latitudes and 35° to 85° longitudes W. of Greenwich. Capitals, cities and towns, railways of South America. Com., phy., pol. Col. 1 3/4 in. = 700 mi. 28.7 x 22.2. 3 insets: 1. Galapagos Is. 02° N. to 02° S. latitudes and 88° to 92° longitudes W. of Greenwich. 2 x 2.9. 2. The Isthmus of Panama. 08°45' to 09°30' latitudes N. and 79°30' to 80°10' longitudes W. of Greenwich. 3/4 in. = 15 mi. 5.8 x 5.6. 3. Comparative Area. Pennsylvania. 1.1 x 1.9. Babson, 1919, f.p. 382.

523. SOUTH AMERICA, The Matthews-Northrup Works, Buffalo, ©1902. 13° N. to 56° S. latitudes and 35° to 85° longitudes W. of Greenwich. Capitals, principal cities and towns, railways. Com., phy., pol. Col. 1 3/4 in. = 700 mi. 28.7 x 22.2. 3 insets: 1. Galapagos Is. 02° N. to 02° S. latitudes and 88° to 92° longitudes W. of Greenwich. 2 x 2.9. 2. The Isthmus of Panama. 08°45' to 09°30' latitudes N. and 79°30' to 80°10' longitudes W. of Greenwich. 3/4 in. = 15 mi. 5.8 x 5.6. 3. Comparative Area. Pennsylvania. 1.1 x 1.9. Craig, 1907, f.p. 20.

524. SOUTH AMERICA, Stanford's Geographical Establishment, London, ca. 1885. 13° N. to 56° S. latitudes and 35° to 85° longitudes W. of Greenwich. Principal cities and towns, railways, roads, submarine telegraph cables. Com., phy., pol. Col. 1 11/16 in. = 600 mi. 34.2 x 25. Bates, 1885, f.p. 303.

525. [SOUTH AMERICA]. 30 maps of South America. Outl. Econ., ethnog., ethnol. Sha. 15.5 x 12.1. 1. Deculturation of Indiana tribes in Northeast Bolivia. 2. Distribution of houses with round or oval shape.



3. Distribution of the cultivation of Manioc. 4. Distribution of Xingú sewed feathering. 5. Distribution of East Brazilian feathering. 6. Regions where the Indians strengthen the butt end of the arrow. 7. Distribution of the blow-pipe. 8. Distribution of the harpoon. 9. Distribution of the landing-nets and other nets. 10. Distribution of the fish-hook. 11. Distribution of fishing-baskets of "Cayubabatype". 12. Distribution of the shield. 13. Distribution of appliances for fire-drilling. 14. Distribution of the terracotta supports for earthenware plates. 15. Distribution of the Babracot. 16. Grinding stones and their substitutes. 17. Sieves and strainers in mat form. 18. Distribution of large earthenware plates with a flat bottom. 19. Distribution of the Penis cover, etc. 20. Piercing the nasal septum. 21. Carrying basket, "Guarayú type". 22. Distribution of canoes of bark. 23. Distribution of different forms of paddles. 27.6 x 18.8. 24. Spinning after the Bororó method. 25. Distribution of the cotton cleaning bow. 26. Looms of Ucayali type. Plaiting of Tumupasa type. 27. Basket work of lattice type. 28. Distribution of clubs for beating bark for making cloth. 29. Distribution of painted cloth. 30. Distribution of bark-cloth.

Nordenskiöld, 1924, back.

526. SOUTH AMERICA, Thos. Bowen, Sc., 1772. Coast of Brazil corrected by John Adams. 12° N. to 58° S. latitudes and 30° to 90° longitudes W. of London. Cities and ports, location of mines, ruins, Jesuit settlements as of 1772. Route taken by Com. Antonio de Ulloa around Cape Horn to the South Seas. Outl. Arch., com., econ., phy., pol., relig. Sha. 25.6 x 22.8.

Ulloa, 1772, v. 1, front.

527. SOUTH AMERICA, R. D. Servass, New York, ca. 1912. Copyright by Student Volunteer Movement for Foreign Missions. 14° N. to 57° S. latitudes and 30° to 90° longitudes W. of Greenwich. Capitals, principal cities and towns, Protestant missions, railways. Com., phy., pol., relig. Col. 2 1/8 in. = 1,000 mi. 27.9 x 20.3. Inset: Panama and United States Canal Zone. 3/4 in. = 40 mi. 6 x 6.

Speer, 1912, f.p. 270.

528. SOUTH AMERICA, L. L. Poates, Engr., New York, 1906. 15° N. to 57° S. latitudes and 30° to 90° longitudes W. of Greenwich. Capitals, principal cities and towns, railways. Com., phy., pol. Col. 2 in. = 1000 mi. 26.5 x 21.5.

Peck, 1916, f.p. 398.

529. SOUTH AMERICA, C. S. Hammond and Co., New York. 16° N. to 56° S. latitudes and 32° to 84° longitudes W. of Greenwich. Capitals, principal cities and towns, railways and steamer routes. Com., phy., pol. Col. 1 3/4 in. = 800 mi. 28 x 20.3. Inset on same scale: Galapagos Is. 00° latitude S. and 90° longitude W. of Greenwich. 3.5 x 3.1.

Leyburn, 1931, back.

530. [SOUTH AMERICA], J. Bartholomew, Blackie and Son, Edinburgh, ca. 1875. Ten maps from drawings by Paul Marcoy to illustrate his travels across the continent from the Pacific Ocean to the Atlantic Ocean. Sketch Map of South America. 20° N. to 60° S. latitudes and 30° to 90°

longitudes W. of Greenwich. Com., phy. 1 7/8 in. = 800 mi. 26.8 x 18.7. Eight itinerary maps. Com., ethnog., hydro., phy. 1 5/8 in. = 40 mi. 26.8 x 18.7. Index to the Itinerary maps. 1 1/2 in. = 30 mi. 26.8 x 18.7. Inset: Lower Amazon Itinerary Map. 01° N. to 06° S. latitudes and 49° to 59° longitudes W. of Greenwich. 10.6 x 15.3. Marcoy, 1875, front.

531. [SOUTH AMERICA]. Location and relative position of the countries of South America. Outl. Pol. 11.3 x 18.8. Reid, 1929, p. 4.

532. [SOUTH AMERICA]. Death rate per 10,000 in cities of over 10,000 population from tuberculosis during the years 1910, 1915, and 1925. The three periods are geographically compared. Outl. Stat. 16.7 x 11.8. Roesle, 1929, p. 29.

533. MAP OF SOUTH AMERICA, ca. 1912. 15° N. and 58° S. latitudes and 30° to 90° longitudes W. of Greenwich. Area covered by the Algot Lange exploration in Bolivia, Brazil, Ecuador, Paraguay, and Peru. Steamer route from New York to Iquitos, Peru through the Amazon River. Com., phy., pol. 3/4 in. = 600 mi. 17.7 x 13.3. Lange, 1912, back.

534. BARTHOLOMEW'S GENERAL MAP OF SOUTH AMERICA, John Bartholomew and Son, Ltd., The Edinburgh Geographical Institute, Edinburg. 15° N. to 58° S. latitudes and 32° to 85° longitudes W. of Greenwich. Departmental and national capitals, principal cities and towns, railways, steamer routes. Com., phy., pol. Col., mntd. 1: 10,000,000. 85.8 x 64.3. 8 insets: 1. Bahia or San Salvador. 1: 150,000. 7.4 x 9.9. 2. Buenos Ayres. 1: 150,000. 8.5 x 6.6. 3. Lima. 1: 300,000. 9.5 x 12.3. 4. Montevideo. 1: 150,000. 8.5 x 7.7. 5. Panama Canal. 1: 500,000. 12.3 x 11.6. 6. Rio de Janeiro. 1: 150,000. 11.5 x 12.9. 7. Trinidad. 1.3 cm = 20 km. 7.8 x 8.2. 8. Valparaiso. 1: 150,000. 7.1 x 8.9.

535. ETHNOLOGICAL AND PHILOLOGICAL MAP OF SOUTH AMERICA SHOWING THE GENERAL DISTRIBUTION OF THE INDIGENOUS RACES AND THE POSITION OF THE VARIOUS LINGUISTIC FAMILIES, Stanford's Geographical Establishment, London, ca. 1885. Outl. Col. 14.1 x 9.9. Bates, 1885, f.p. 443.

536. NEW MAP OF SOUTH AMERICA, Rand McNally and Company, Chicago. For distribution through the newspapers represented by Frederic J. Has- kin. International and territorial boundaries, canals, cities and towns, railways. Cities are spelled in their correct local form for use in commerce and travel. Com., phy., pol. Col., mntd. 1: 12,355,000. 69.9 x 47.1. 7 insets: 1. Buenos Aires y Vecindad. 34° to 35° latitudes S. and 58° to 59° longitudes W. of Greenwich. 2.2 cm = 20 km. 9 x 12.9. 2. Bogota y Vecindad Incluyendo del Valle de Medellin. 04° to 06° latitudes N. and 74° to 76° longitudes W. of Greenwich. 1.3 cm = 80 km. 6 x 10.4. 3. Chile, Seccion Central y Ampliada. 34° to 36° latitudes S. and 70° to 75° longitudes W. of Greenwich. 1 cm = 60 km. 3.3 x 3.1. 4. Archipelago de Galapagos (Al Ecuador). 01° N. to 01°

S. latitudes and 89° to 91° longitudes W. of Greenwich. 3.3 x 3.1.  
5. Caminos Principales del Comercio Con los Estados Unidos y Europa.  
6.3 x 6.6. 6. Rio de Janeiro e Vizinhança. 22° to 24° latitudes N.  
and 41°30' to 44°15' longitudes W. of Greenwich. 3.8 x 7.8. 7. Polar  
Regions. 1: 50,000,000. 14.9 x 22.2.

537. PHILIPS' COMMERCIAL & RAILWAY MAP OF SOUTH AMERICA, The Lon-  
don Geographical Institute, George Phillip and Son, Ltd., London. 15°  
N. to 57° S. latitudes and 34° to 85° longitudes W. of Greenwich. Bays,  
sand banks, cities and towns, light houses and ships, salt pits and works,  
railways, rivers, steamer routes (distance in nautical miles), submarine  
cables, valcanoes. Com., econ., phy., pol. Col., mntd. 1: 8,500,000.  
99.8 x 69.4.

538. PHYSICAL MAP OF SOUTH AMERICA, Stanford's Geological Estab-  
lishment, London, ca. 1885. 15° N. to 58° S. latitudes and 20° to 90°  
longitudes W. of Greenwich. Elevations above sea level, ocean currents,  
regions of prevailing winds. Hydro., meteor., phy. Col. 3/4 in. =  
500 mi. 20.4 x 15.7.

Bates, 1885, f.p. 195.

539. RAILWAY MAP OF SOUTH AMERICA, Alexander Gross, "Geographia"  
Ltd., London. Specially drawn for the publishers of the South American  
Year Book, The Louis Cassier Co., Ltd., London. 13° N. to 56° S. lati-  
tudes and 32° to 84° longitudes W. of Greenwich. Cities and towns, rail-  
ways, roads, steamer routes, submarine cables, wireless stations. Com.,  
phy., pol. Col., mntd. 3 3/16 in. = 400 mi. Elevations in feet. 99.8  
x 73.5. 3 insets: 1. Antofagasta to Concepcion, Chile. 1 1/2 in. =  
100 mi. 36 x 12.5. 2. Geographical position of Buenos Aires, La Plata,  
Rosario, and Santa Fe, Brazil. 1 1/2 in. = 100 mi. 14.9 x 20.6. 3.  
South Atlantic Coast of Brazil in the vicinity of Rio de Janeiro. 1 9/16  
in. = 100 mi. 21.4 x 30.5. 1 photostatic copy on file. Scales apply  
to original only.

540. MR. ROGERS'S ROUTE THROUGH SOUTH AMERICA. From Pará to Buenos  
Aires, which, with the exception of a stretch of 180 miles, was made by  
Alexander P. Rogers's party in boats. Railway from Porto Vehló, Brazil  
to Villa Bella, Bolivia. Com., pol. 1 1/8 in. = 600 mi. 13 x 12.9.

Rogers, 1912, p. 627.

541. MAP OF PART OF SOUTH AMERICA, Chapman and Hall, Ltd., London,  
ca. 1912. 02° N. to 35° S. latitudes and 30° to 85° longitudes W. of  
Greenwich. Map includes Bolivia, Brazil, Ecuador, Paraguay, Peru, Uru-  
guay, and parts of Argentina and Chile. Distribution of Indian tribes.  
Com., ethnog., phy., pol. Col. 1: 15,000,000. 28.5 x 37.2.

Church, 1912, f.p. 302.

542. [SOUTHERN PART OF SOUTH AMERICA], ca. 1929. 18° to 57° lati-  
tudes S. and 50° to 80° longitudes W. of Greenwich. Locations of weather  
stations in Argentina, the disputed territory of Bolivia, Chile, Para-  
guay, Uruguay, and Falkland and Staten Islands. Outl. Meteor., pol.  
11/16 in. = 200 mi. 24 x 13.9.

Reed, 1929, p. 2.

543. MAP SHOWING THE ENTIRE SOUTH AMERICAN JOURNEY OF COLONEL ROOSEVELT AND MEMBERS OF THE EXPEDITION, L. L. Poates and Co., New York, ca. 1914. 15° N. to 56° S. latitudes and 30° to 90° longitudes W. of Greenwich. The Roosevelt-Rondon Expedition left Asuncion, Paraguay on December 9, 1913, having traveled overland to that town from Rio de Janeiro by way of Buenos Aires. From Asuncion the expedition followed the Paraguay River northward to its headwaters and at Utianity, Brazil divided into three parties. One party, under Anthony Fiala, continued down the Papagaio (never before descended) and the Tapajos Rivers to the Amazon. On February 27, 1914, Theodore Roosevelt and his party started north on a hitherto unknown river (the River of Doubt) and, following its course, eventually reached the Amazon on March 19, 1914. The third party, under Lauro Miller, after Roosevelt's departure, continued westward and reached the Amazon by way of the Gy-Parana and Madeira Rivers. All three parties, after reaching the Amazon, continued on it to Para, Brazil. Com., phy., pol. 19 x 13.4. Roosevelt, 1914, f.p. vii.

544. SOUTH AMERICAN MAP SHOWING THE EXACT BOUNDARIES OF BOLIVIA, ca. 1929. 13° N. to 55° S. latitudes and 35° to 85° longitudes W. of Greenwich. Cities, customhouses, railways in operation and under construction. Outl. Com., pol. Sha. 19.6 x 12.8. Bolivia, 1929, p. 26.

545. SOUTH AMERICAN MIGRATIONS, Emery Walker, Sc., Cambridge University Press, Cambridge, ca. 1911. Migrations of 10 peoples in South America. Outl. Ethnol. 1 1/16 in. = 1,000 mi. 17.1 x 12.1. Haddon, 1912, map no. 5, back.

546. THE SOUTHERN ROUTE BETWEEN ARGENTINE AND CHILE, F. Domingues, La Plata, 1920. 41° to 41°10' latitudes S. and 06°50' to 08°50' longitudes W. of Cordoba. Principal cities and towns, railway, roads, route between Bariloche, Argentina and Puerto Varas, Chile by automobile, and steamer over Lakes Llanquihue and Nahuel-Huapi. Com., phy., pol. Sha. 1: 600,000. 8.5 x 17.8. Inset: Profile of route. Hor. 1: 1500,000, ver. 1: 100,000. 1.5 x 8.7. Reid, 1929, p. 60.

547. SUD AMERIKA FLUSS-UND GEBIRGSSYSTEME. 26° N. to 60° S. latitudes and 30° to 95° longitudes W. of Greenwich. Elevations above sea level, ocean depths, navigable streams, streams navigable only during the rainy season. Com., hydro., phy. Col. 1: 37 000 000. 26.7 x 18.8. Sievers, 1914, insert pp. 98-99.

548. TITICACA. After Raimondi, Mapa del Peru, foja 30. 15°40' to 17° latitudes S. and 68° to 70° longitudes W. of Greenwich. Southern portion of Lake Titicaca, Bolivia and Peru. Locations of islands and sites visited by Wendell C. Bennett. Sketch. 13.4 x 11.8. Inset: South America, showing location of Lake Titicaca. 3.5 x 2.7. Bennett, 1934, p. 717.

549. LAGO TITICACA. Cities and towns; rivers; routes of railways from Puno to Cuzco, Juliaca to Arequipa, Cuaqui to La Paz; ruins. Arch.,

com. Mntd., sha. 1: 500000. 31.8 x 69.8.

550. MAP OF LAKE TITICACA AND SURROUNDINGS, A. Raimondi. Reduced copy from Atlas of Peru. 05° to 17° latitudes S. and 68°40' to 70° longitudes W. of Greenwich. Principal cities and towns, roads. Com., phy., pol. Sha. 13.3 x 10.9.

Bandelier, 1910, f.p. 3.

551. LAKE TITICACA & VICINITY, Albert H. Bumstead. Bathymetric data chiefly from Agassiz and Neveu-Lemaire; other data from Raimondi, Markham, The Peruvian Corporation, and Gregory. 14°45' to 17° latitudes S. and 67°45' and 70°40' longitudes W. of Greenwich. Flats around lake shown by horizontal shading. Principal cities and towns, railways. Com., hydro., phy. Sha. 4 1/4 in. = 100 mi. 16.1 x 21.1.

Gregory, 1913, f.p. 187.

552. A SKETCH MAP OF THE LAKE TITICACA REGION, James M. Darley, ca. 1927. 15° to 17° latitudes S. and 67° to 71° longitudes W. of Greenwich. Principal cities and towns of Bolivia and Peru in the vicinity of Lake Titicaca, railways. Com., pol. Sha. 1 1/4 in. = 50 mi. 7.9 x 13.2. Inset: Railways from Pacific coast to Lake Titicaca: Mollendo to Puno, Peru; Arica, Chile to La Paz, Bolivia. 1 in. = 150 mi. 4.1 x 6.1.

McMillin, 1927, p. 214.

553. MAPA ITINERARIO PARA VIAJEROS LOS FERRO-CARRILES DE SUR DEL PERÚ CARRETERA AL CUZCO LAGO TITICACA I FERRO-CARRILE DE GUAQUI A LA PAZ, F. E. Mendez, 1904. 13° to 18° latitudes S. and 70° to 76° longitudes W. of Greenwich. Itinerary map for travelers on railways of southern Peru, Cuzco-Lake Titicaca Highway, and Guaqui-La Paz Railway. Com., phy. Col., mntd. 0.004 m = 1 le. 53.7 x 61.

554. THE RIVER UAUPÉS, The Royal Geographical Society, London, 1910. From a survey by Hamilton Rice, Oct. 1907 - April 1908. 06° N. to 02° S. latitudes and 67° to 74° longitudes W. of Greenwich. 3 maps: 1. Route between Puerto Alturo and Calamar, from Calamar to San José, and from San José to Guaviare. 02° to 02°50' latitudes N. and 72° to 72°50' longitudes W. of Greenwich. 10.6 x 10.1. 2. River Uaupés, from Calamar to Pedro Chico. 00° to 02°10' latitudes N. and 69°40' to 72°40' longitudes W. of Greenwich. 32.5 x 18.8. 3. Continuation of River Uaupés from Pedro Chico to its confluence with the Rio Negro. 01°25' N. and 00°10' S. latitudes and 67° to 69°50' longitudes W. of Greenwich. 19.5 x 32.5. Course of River Uaupés, depths, rapids, tributaries, large native houses, shelters, trader's houses, principal towns. Latitude and longitude by astronomical observations. Com., hydro., phy. Mntd. Elevations in feet. 1: 1,000,000. Inset: Location of region traversed by survey. 06°30' N. and 01° S. latitudes and 66° to 75° longitudes W. of Greenwich. 1: 8,000,000. 10.5 x 12.

555. SALESMAN ROUTING, VENEZUELA-COLOMBIA, W. Duval Brown, 1925. Route through northern Colombia and Venezuela; automobile roads, railways. Outl. Com., pol. Mim. 20.5 x 31.8.

Brown, 1925, p. 3.

556. VENEZUELA AND TRINIDAD, REGIONS WITHIN WHICH CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE PRODUCTION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division No. 2407, ca. 1926. 02° to 13° latitudes N. and 59° to 74° longitudes W. of Greenwich. Area with climatic conditions favoring the cultivation of Hevea Rubber, principal cities and towns, railways. Outl. Com., econ., pol. Sha. 17.7 x 20.8.

Treadwell, 1926, f.p. 316.

557. RADIUS OF COMMUNICATION NOW POSSIBLE THROUGH NEW WIRELESS INSTALLATIONS IN PERU, H. M. R., Pan American Union, 1912. 12° N. to 12° S. latitudes and 60° to 80° longitudes W. of Greenwich. Communications to Bolivia, Brazil, Chile, Colombia, and Ecuador, and Venezuela. Outl. Com. 14.5 x 11. Inset: South America, location of section covered by main map. 6.2 x 4.4.

Wireless telegraph in Peru, 1912, p. 83.

## 2. Argentina

558. THE ANDES-MENDOZA AND ITS SUBURBS. City of Mendoza and suburbs in northwestern Argentina. Com., phy. Col. 9.7 x 13.3.

Buenos Aires and Pacific railway, n.d., front.

559. ARGENTINA, The London Geographical Institute, George Philip and Son, London, ca. 1910. 22° to 52° latitudes S. and 53° to 80° longitudes W. of Greenwich. Cities, ports and towns; railways; steamer routes (distances in nautical miles); submarine cables. Com., phy., pol. Col., sha. 1 3/8 in. = 300 mi. 25.6 x 18.6.

Domville - Fife, 1910, f.p. 34.

560. [ARGENTINE RAILWAYS], ca. 1930. 15 maps of routes of Argentine Railways. Sketch. Com. 1. The Argentine North Eastern Railway. Monte Caseros to Corrientes and Posadas. 7.7 x 5.2. P. 70. 2. The Buenos Aires Great Southern Railway. Buenos Aires to Zapala. 5.9 x 9. P. 70. 3. The Buenos Aires Pacific Railway. Buenos Aires to Mendoza. 4.7 x 8.9. P. 66. 4. The Buenos Aires Western Railway. Buenos Aires to Soitué. 3.4 x 9. P. 66. 5. The Central Argentine Railway. Buenos Aires to Córdoba and Tucumán. 9.4 x 6.4. P. 62. 6. The Central Northern Argentine State Railway. Santa Fé to San Juan and La Quiaca. 8.2 x 7.7. P. 68. 7. The Central of Buenos Aires Railway. Buenos Aires to Villamaria. 2.4 x 8.2. P. 68. 8. The Córdoba Central Railway. Buenos Aires to Tucumán. 8.5 x 7.7. P. 72. 9. The Entre Rios Railway. Ibicuy to Concordia and Villa Federal. 8.1 x 5.4. P. 64. 10. The Midland of Buenos Aires Railway. Buenos Aires to Carhué. 1.8 x 8.9. P. 62. 11. The Patagonian State Railway. Puerto San Antonio to Lago Nahuel Huapi. 2.4 x 8.9. P. 64. 12. The Province of Buenos Aires (C. G.) Railway. La Plata to Villogas. 2.9 x 8.9. P. 60. 13. The Rosario-Puerto Belgrano Railway. Puerto Belgrano to Rosario. 6. x 2.6. P. 70. 14. The Santa Fe Railway. Rosario to Córdoba and Resistencia. 8.2 x 6.4. P. 60. 15. The Transandine Railway. Mendoza to Valparaiso. Pol. 3.9 x 8.9. P. 66.

Davies, 1930, pp. 60-72.

561. THE PROVINCES AND TERRITORIES OF ARGENTINA. Location of the states of Argentina. Accompanying table giving principal products and physical characteristics of states. Outl. Pol. 14.3 x 9.

Davies, 1930, p. 82.

562. GENERAL PLAN OF BUENOS AIRES, ARGENTINA. City of Buenos Aires, railway and roads entering and leaving city. Plat. Com. 2 3/16 in. = 2 mi. 11.1 x 18.5.

Reid, 1929, p. 41.

### 3. Bolivia

563. TOPOGRAPHICAL SKETCH OF THE EASTERN SLOPES OF THE ANDES, The Engineering and Mining Journal, ca. 1911. Bolivia in the region of 16° latitude S. and 66° longitude W. of Greenwich. Gold and tin mines, railways, navigable rivers (tributaries of the Beni), roads and trails. Com., econ., pol. 17.1 x 11.6.

Armas, 1911, p. 856.

564. THE BENI RIVER, H. Sharbau, Edwd. Weller, Lith., London, 1883. Published for the Proceedings of the Royal Geographical Society. From a reduction of the original surveys of Dr. E. Heath supplied by himself. 10° to 18° latitudes S. and 63° to 69° longitudes W. of Greenwich.

Course of the Beni River through northern Bolivia from La Paz to the Manoré River. Com., phy. 1 in. = 46 mi. 31.6 x 22.8. Inset: Part of Peru and Bolivia to illustrate the paper by Clements R. Markham, C. B. 09°20' to 18° latitudes S. and 65° to 73° longitudes W. of Greenwich. Com., phy., pol. 1 1/4 in. = 150 mi. 12.9 x 12. 3 photostatic copies on file. Scales apply to original only.

Heath, 1883, f.p. 376.

565. BENI AND BOPI RIVERS BETWEEN REYES AND LA PAZ, BOLIVIA, Edwin R. Heath, Kansas City. Sketches of course of rivers, through northwestern Bolivia, currents, depths, obstructions, tributaries. 18 sections bound in book form. Hydro., phy. Pho. 19 x 25.5. 3 additional copies of file.

566. [RIO BENI, RIO MADRE DE DIOS AND THEIR TRIBUTARIES]. 10° to 13° latitudes S. and 65° to 70° longitudes W. of Greenwich. Course of Beni and Madre de Dios Rivers and their tributaries through northern Bolivia to Brazilian border. On verso: Course of River Orton, from Palestine to River Beni, and course of River Tahuamanu from Porvenir to Naceve. Sketch. Pol. Ms. 41.5 x 110.7.

567. [RIO BENI, RIO MADRE DE DIOS AND THEIR TRIBUTARIES]. 10° to 13° latitudes S. and 65° to 70° longitudes W. of Greenwich. Course of Beni and Madre de Dios Rivers and their tributaries through northern Bolivia to Brazilian border. Com., pol. Col., mntd., ms. 47.4 x 60.4.

568. MAPA DE LOS RIOS BENI Y YACUMA, Luis Garcia Mesa, 1903. According to the explorations of Dr. Eduardo R. Heath, 1879, 1880, 1881. 10° to 17° latitudes S. and 65° to 69° longitudes W. of Greenwich. Course of the Beni River from La Paz to its confluence with the Rio

Madre de Dios, northern Bolivia. Distribution of Indians. Com., ethnog., phy. Mntd., pho. 51 x 27.6.

569. BOLIVIA, The London Geographical Institute, George Philip and Son, ca. 1910. 10° to 24° S. and 55° to 75° longitudes W. of Greenwich. Principal cities and towns, railways, steamer routes, submarine cables. Com., phy., pol. Col., sha. 1 in. = 150 mi. 19.2 x 24.2. Lomville - Fife, 1910, f.p. 102.

570. BOLIVIA, ca. 1928. 08° to 27° latitudes S. and 58° to 74° longitudes W. of Greenwich. Customhouses and railway system of Bolivia. Sketch. Com., pol. 29.1 x 20.8. Bolivia, 1928, pp. 20-21.

571. BOLIVIA, Rand McNally and Co. 09° to 26° latitudes S. and 56° to 70° longitudes W. of Greenwich. Cities and towns, distribution of Indians, agricultural and mineral products. Econ., ethnog., pol. 1 1/8 in. = 200 mi. 18.1 x 13.6. Bolivia, 1932, p. 4.

572. BOLIVIA, Rand McNally and Co., Chicago. 09° to 25° latitudes S. and 57° to 70° longitudes W. of Greenwich. Principal cities and towns, distribution of Indians, agricultural and mineral products, territory in dispute. Com., econ., ethnog., pol. Col. 1 in. = 103 mi. 31.3 x 23.5. 1 additional copy on file. Schurz, 1921, f.p. 260.

573. [BOLIVIA], 1917. Two maps to illustrate Consular Service of Bolivia, a statistical report which gives general information, guarantees conceded, customs regulations, exterior commerce, railway time table, transportation facilities by animal, carriage, and motor car. 1. Railways of Bolivia. Railways in operation and projected. Com., pol. 23.5 x 18.3. 2. Geographical Situation of Bolivia in South America. 13° N. to 65° S. latitudes and 35° to 85° longitudes W. of Greenwich. Outl. Pol. 17 x 10.7. 1 additional copy on file.

574. BOLIVIA, ECONOMIC MAP, M. Boyd, New York, 1928. Cacao, rice, sugar cane, forests. Outl. Econ., pol. Sha. 1: 8 000.000. 28.6 x 21.

Bolivia, 1928a, pp. 20-21.

575. BOLIVIA, LLOYD AERETO BOLIVIANO. L.A.B. NO. 131. Route of flight as of 1930. Actual airways between principal cities of Bolivia, connection with Pan-American airways at Arica, Chile, proposed airway between Cobija and Riberalta; railways. Com., phy., pol. 20.1 x 14.6. Bolivia, 1930, p. 27.

576. AGRICULTURAL REGIONS OF BOLIVIA, Eduardo Romecin, New York, 1928. Arid Andean grazing region, Central Andean crops and grazing region, Chaco Quebracho grazing region, corn and general farming, eastern potential grazing rubber forests, the Yungas. Econ., pol. 1 5/8 in. = 500 mi. 12.9 x 13.

Romecin, 1928, p. 14.



577. MAPA DE BOLIVIA, Javier Valdez Reynoso, Henrich y Ca., Barcelona, 1920. 09° to 25° latitudes S. and 57° to 72° longitudes W. of Greenwich. Departmental provincial, and state capitals, cities and towns, salt deposits, highways, lakes, salt lakes, navigable rivers, county seats, swamps, foot and mule trails. Com., econ., phy., pol. Col., mntd. 1: 2 400 000. 74.4 x 60.8.

578. MAPA DE BOLIVIA, Dirección General de Estadística y Estudios Geográficos, Imp. y Lit. Boliviana, La Paz, 1917. 09° to 25°45' latitudes S. and 57° to 72° longitudes W. of Greenwich. Departmental and provincial capitals, cities and towns, mining centers, rubber forests, principal mineral products, cattle ranges, railways in operation, under construction and proposed, automobile roads. Com., econ., pol. Col., mntd. 1: 5.500,000. 32.9 x 28.9.

579. MAP OF BOLIVIA, General Direction of Statistics and Geographical Studies, The Litografía "Moderna", La Paz, ca. 1928. 09° to 26° latitudes S. and 57° to 72° longitudes W. of Greenwich. Capitals, cities and towns, agricultural and mineral products, railways in operation, projects and under construction. Com., econ., pol. Sha. 1: 5,500,000. 23 x 20.5.  
Saavedra, 1928, pp. 20-21.

580. MAP OF BOLIVIA, The Mathews-Northrup Works, Buffalo, ca. 1907. 09° to 23° latitudes S. and 56° to 74° longitudes W. of Greenwich. Capitals, principal cities and towns, railways. Com., phy., pol. Col. 1.9 cm = 200 km. 18 x 18.4.  
Craig, 1907, f.p. 30.

581. MAP OF BOLIVIA SHOWING FOREST AND AGRICULTURAL AREAS, AND MINERAL LOCALITIES, The Eckert Lithographing Company, Washington, 1912. 09° to 25° latitudes S. and 57° to 72° longitudes W. of Greenwich. Cities and towns, railways in operation and proposed. Com., econ., pol. Col., mntd. 3/8 in. = 25 mi. 50.4 x 43.

582. MAP OF BOLIVIA SHOWING PRINCIPAL MINING CENTERS. Western Bolivia from La Paz to Argentine border, location of mining regions, railways. Sketch. Com., econ., pol. 11.5 x 8.5.  
Blick and Schönlein, 1916, p. 173.

583. THE PRINCIPAL MINING REGIONS OF BOLIVIA. Location of mining regions in western Bolivia, railways. Cutl. Com., econ., pol. 12.8 x 11.3.  
Singewald, Jr. and Miller, 1916, p. 1007.

584. MAPA PERTOLÍFERO DE BOLIVIA, A. Tapia R., Taller de Fotolitografía-F. Payá, 1920. Based on the general chart of Eduardo Idiaquez. 09° to 25°40' latitudes S. and 57°35' to 72° longitudes W. of Greenwich. Map of the oil fields of Bolivia. Railways in operation, under construction and proposed. Com., econ., phy., pol., land tenure. Col., mntd. 6.4 cm = 200 km. 61.2 x 50.5.

585. MAPA POSTAL DE BOLIVIA, Luis S. Crespo, Litografía e Imprenta "Moderna", La Paz, 1919. Emilio Zalles and Dr. José Cossío Guzmán. The 12 postal districts of Bolivia, 1st, 2nd, and 3rd class post offices,

railways in operation and under construction, roads. Com., pol. Col., mntd. 1: 2,000,000. 91 x 77.9.

586. RAILROAD MAP OF BOLIVIA, ca. 1927. Operating and projected railways. Outl. Com., pol. 7.2 x 6.4. Marsh, 1927, p. 18.

587. MAPA TELEGRAFICO DE BOLIVIA, La Paz, 1919. Made by order of Director General de Telegrafos Señor Emilio Zalles. 09° to 25°20' latitudes S. and 57° to 71° longitudes W. of Greenwich. Telegraphic headquarters, discontinued, ordinary and proposed offices, wireless stations in operation, under construction and proposed. Com., pol. Col., mntd. 1: 2 000 000. 91.5 x 72.6.

588. REPUBLICA DE BOLIVIA, Richard Mayer, New York. Cities and towns, mines, railways in operation, under construction and proposed, roads. Com., econ., pol. Col., mntd. 7.6 cm = 150 km. 103.6 x 87. (Central section of map defaced).

589. MAPA DE LA REPUBLICA DE BOLIVIA, Eduardo Idiaquez, Erhard Brothers, Paris, 1901. Made by order of General José Manuel Pando, Constitutional President. 07° to 25° latitudes S. and 60° to 76° longitudes W. of Paris. Departmental and provincial capitals, cities and towns, railways. Com., phy., pol. Col., mntd. 1: 2.000.000. 107.9 x 90.6.

590. MAPA GENERAL DE LA REPUBLICA DE BOLIVIA, Luis Garcia Meza, 1908. 7th edition. 09° to 25°30' latitudes S. and 57° to 73° longitudes W. of Greenwich. Departmental, provincial, and state capitals; cities and towns; mineral deposits; distribution of Indians; missions; telegraph offices; post offices; railways under construction, in operation, and proposed; Hevea rubber regions; rivers, roads and highways. Com., econ., ethnog., phy., pol. Col., mntd. 1: 2500000. 85.5 x 71.8. Inset: Perfil de Bolivia Segun el Plano Vertical de Proyeccion Ne-So de Cochabamba. 5 x 60.5.

591. SKETCH MAP ILLUSTRATING EXPLORATIONS IN BOLIVIA BY DR. STEINMANN, DR. HOEK & DR. V. BISTRAM, 1903-4, The Royal Geographical Society, London, 1905. 16°15' to 24°20' latitudes S. and 63°50' to 70°20' longitudes W. of Greenwich. Cities and towns, railways, route of expedition. Com., phy., pol. 1: 3,000,000. Elevations in feet. 31 x 24. Inset: Area covered by explorations in Argentina, Bolivia, Chile, and Peru. 1: 20,000,000. 9.8 x 9.5.

592. SKETCH MAP TO ILLUSTRATE THE EXPLORATIONS OF MAJOR P. H. FAWCETT, R.G.A. IN 1913-14 [BOLIVIA], P. H. Fawcett, The Royal Geographical Society, 1915, 11° to 19° latitudes S. and 60° to 69° longitudes W. of Greenwich. Reduced preliminary sketch of Major Fawcett's original drawing based on his recent surveys and more recent prismatic compass traverses, adjusted by astronomical observations. Distribution of Indians, tramway line, location of ranches, rivers, towns. Com., econ., ethnog. Mntd. 1: 3,000,000. 30 x 32.6. 6 photostatic copies of section, 11° to 19° latitudes S. and 63° to 69° longitudes W. of Greenwich. 29.2 x 22.4.

593. NORTHERN BOLIVIA, The Royal Geographical Society, 1901. As corrected by Colonel José M. Pando from his explorations 1892-1898. 06°50' to 15° latitudes S. and 65°15' to 74°10' longitudes W. of Greenwich. Cities and towns, rivers. Com., phy. Col., mntd. 1: 2000,000. 47 x 50. Inset: South America, area covered by main map. 15° N. to 55° S. latitudes and 35° to 85° longitudes W. of Greenwich. 13.7 x 9.4.

594. [NORTHWESTERN BOLIVIA]. From map by Richard Mayer, New York. 11° to 16° latitudes S. and 65° to 69° longitudes W. of Greenwich. Course of Rio Beni, Rio Madre de Dios and their tributaries through northern Bolivia. Com., pol. Pho. 28 x 23. 3 additional copies on file.

595. MAP OF NORTH-WESTERN BOLIVIA. By courtesy of the Antofagasta (Chili) and Bolivia Railway Co. Ltd. Principal cities and towns, Antofagasta and Bolivia railways, under construction, in operation and proposed, other railways, rivers. Com., phy., pol. Sha. 1 7/8 in. = 150 mi. 20.5 x 20.5.  
Guise, 1922, f.p. 246.

596. MAP OF PART OF BOLIVIA, Edwd. Weller, for the Journal of the Royal Geographical Society, John Murray, London, 1877. From the surveys of J. B. Minchin to illustrate the Paper by G. C. Musters. 17°30' to 20° latitudes S. and 62°40' to 67°20' longitudes W. of Greenwich. Elevations of cities and towns, mountains. Com., phy. Sha. 2 1/4 in. = 30 mi. 31.5 x 57.

597. MAP OF PART OF BOLIVIA, H. Sharbeau, Edwd. Weller, Lith., for the Royal Geographical Society, London, 1881. Compiled from the survey of J. B. Minchin, Esqr., engineer of the Bolivian Government. 12° and 22° latitudes S. and 57° to 75° longitudes W. of Greenwich. Principal cities and towns, roads. Com., phy., pol. Col., mntd. 1: 3,600,000. 38.5 x 43.3. Inset: Part of South America. Showing the River Systems of the States adjoining Bolivia. Com., pol. 3/4 in. = 600 mi. 9.4 x 13.5.

598. MAP OF PART OF BOLIVIA, for the Journal of the Royal Geographical Society, London, 1877. From the surveys of J. B. Minchin to illustrate the Paper by G. C. Musters, Retired Commander, R. N. 15°25' to 17°25' latitudes S. and 67°20' to 68°50' longitudes W. of Greenwich. Elevations, roads, city of La Paz, and Lake Titicaca region. Com., phy. Col., mntd. 2 1/4 in. = 30 mi. 31.3 x 20.

599. BOLIVIAN RAILWAY SYSTEM, F. A. Godoy, ca. 1909. 15° to 24° latitudes S. and 61° to 74° longitudes W. of Paris. Principal cities and towns, railways in operation, under construction and proposed. Com., phy., pol. Sha. 2 in. = 150 mi. 23.1 x 37.8.  
Railways in Bolivia, 1909, f.p. 568.

600. PART OF THE BOLIVIAN TABLE LAND, H. Sharbau, Edwd. Weller, Lith., for the Proceedings of the Royal Geographical Society, London, 1882. From a trigonometrical survey executed for the National Government in 1882 by J. B. Minchin. 17°40' to 20°20' latitudes S. and 66°30' to 68°50' longitudes W. of Greenwich. Great salt plains, roads, watercourses. Com., econ., phy. Col., mntd. 1 in. = 17 mi. Elevation in feet. 28.7 x 23.4.

601. BOLIVIA, V. Huot, ca. 1914. 09° to 26° S. and 60° to 74° longitudes W. of Paris. Principal cities and towns, railways in operation, under construction and proposed. Com., phy., pol. Sha. 1: 6,500,000. 28.8 x 21.3.  
Walle, 1914, f.p. 408.

602. LA BOLIVIE, Paul Walle, ca. 1914. 07° to 27° latitudes S. and 59° to 77° longitudes W. of Paris. Railways in operation, under construction, and projected. Com., pol. 12.6 x 10.1.  
Walle, 1914, f.p. 240.

603. CARTE DES TRIBUS INDIENNES EN BOLIVIE, Chervin, ca. 1907. Distribution of Indian tribes in the departments of Bolivia. Outl. Ethnog., phy., pol. 16.2 x 11.  
Chervin, 1907, p. 9.

604. SERVICE POSTAL AERIEN DE BOLIVIE, ca. 1929. 10° to 25° latitude S. and the 55° to 80° longitudes W. of Greenwich. Air mail routes in Bolivia, cities and towns. Com., phy., pol. 11/16 in. = 150 mi. 22.8 x 28.7. Inset: South America, extension of air mail service. 10.9 x 8.5.  
Bolivia, 1929a, pp. 14-15.

605. CARACOLLES MINES, W. T. T., 1921. Mines under development by Guggenheim Brothers, Province of Inquisivi, Department of La Paz, western Bolivia. Capitals, cities, towns and villages, railway, automobile and wagon roads, trails. Com., econ., phy., pol. Blueprint. 1: 25,000. 45.5 x 49.2.

606. GEOLOGICAL SKETCH MAP OF CARANCAS COPPER DEPOSITS, The Engineering and Mining Journal, ca. 1910. Section of copper deposits, Caranca, Department of Potosi, western Bolivia. Econ. Sha. 9.5 x 17.7.  
Hawthurst, 1910, p. 911.

607. SKETCH MAP OF CAUPOLICAN AND ADJOINING PORTIONS OF NORTHERN BOLIVIA, The Royal Geographical Society, London, 1903. Compiled from the surveys of G. N. Watney, J. W. Evans, and others. 13°45' to 15°50' latitudes S. and 67°10' to 70° longitudes W. of Greenwich. Caupolican and adjoining territories of Larecaja and Muñecas. Principal cities and towns, routes of members of the expedition. Com., phy. 1: 750,000. Elevations in feet. 33.5 x 42.2. 4 photostatic copies of section, 13°45' to 15°50' latitudes S. and 67°10' to 68°50' longitudes W. of Greenwich. 31.6 x 23.8.

608. MAP SHOWING THE ROUTE OF THE COCHABAMBA-SANTA CRUZ RAILWAY, ca. 1927. Departments Cochabamba, Druro, and La Paz, route of proposed railway from Cochabamba to Santa Cruz, other railways proposed and in operation. Com., pol. 6.4 x 13.1.  
Ovando, 1927, p. 7.

609. [TERRITORIO DAS COLONIAS.] 10°15' to 12°15' latitudes S. and 66° to 69° longitudes W. of Greenwich. Bolivian section of Acre Territory, site of battles between Bolivia and Brazil and Indian tribes roads, trails. Com., ethnog., mil., pol. Mntd., pho. 21 x 30.4. 3 unmounted copies on file.

610. SKETCH MAP OF COLQUECHACA MINING DISTRICT, SHOWING THE LOCATION OF THE PRINCIPAL MINES. Location of tin and silver mines. Colquechaca district, Bolivia; roads, topography. Sketch. Com., econ., phy. 2 in. = 1 mi. 19.9 x 17.6. Inset: Railways between La Paz and Uyuni and the Pacific coast. Com., pol. 5 x 6. Singewald, 1920, p. 764.
611. PLANO DE LOS GOMALES DE CONQUISTA, Antonio Salvatierra, 1899. 11° to 11°30' latitudes S. and 67° to 67°30' longitudes W. of Greenwich. Map of 171,153 hectareas (1 hectarea = 2.471 acres) in the rubber bearing district of Conquista between Puerto Rico and Rio Madre de Dios, Territorio de Colonios, northwestern Bolivia, boundary of section, centers of trapping, paths of exploration, paths and mule roads, swamps. Com., econ. ms. 1: 200,000. 45.7 x 38.7.
612. THE HIGHEST PART OF THE CORDILLERA REAL, F. S. Weller, Lith., The Royal Geographical Society, London, 1900. From a triangulation and plane table survey by Martin Conway, 1898, and various unpublished documents. 15°15' to 17° latitudes S. and 67°55' to 69° longitudes W. of Greenwich. Cities and towns of the provinces of Lambate, Larecap, Las Yungas, and Puna, highways, secondary roads. Com., phy. Col., mntd. 1: 500,000. Elevations in feet. 40.2 x 45.8. 4 photostatic copies (1 mntd.) of section, 15°15' to 16°40' latitudes S. and 66°55' to 67°45' longitudes W. of Greenwich. 30.7 x 20.6.
613. THE RIVER HEATH AND ADJACENT TERRITORY, The Royal Geographical Society, London, 1911. To illustrate the Paper by Major P. H. Fawcett, 1910. 13°40' to 14°15' latitudes S. and 68°40' to 70° longitudes W. of Greenwich. Rubber forests, towns, location of Indian tribes in northwestern Bolivia. Com., econ., ethnog., hydro., phy. Col., mntd. 1: 500,000. Elevations in feet. 43.7 x 29.3. 2 insets: 1. Geographical position of River Heath in Bolivia. 1: 5,000,000. 13 x 11. 2. Section of the Inca Mining and Rubber Cos. Road. Pro. Hor. 1 5/8 in. = 50 mi., ver. 7/8 in. = 15,000 ft. 2.4 x 11.1.
614. [INQUISIVI]. From a map by National Geographic Society, Washington. 16°15' to 17°35' latitudes S. and 66°55' to 68°05' longitudes W. of Greenwich. Department of Inquisivi, in the southwestern part of the state of La Paz. Com., phy., pol. 1: 500 000. 30.3 x 25.3.
615. [RIO KAKA], The Engineering and Mining Journal, ca. 1911. Topography of country traversed by the Kaka River, a tributary of the Beni, northwestern Bolivia. Location of gold mines. Econ., phy. 9.6 x 11.5. Armas, 1911, p. 857.
616. MR. ARNOLD W. HODSON'S ROUTES IN THE KALAHARI DESERT, 1905. 20°30' to 25° latitudes S. and 20° to 23°30' longitudes E. of Guatemala City. Southwestern Bolivia. Old and new routes of travel, water supply. Com. Pho. 1: 3,000000. 19.5 x 12.2. Inset: Location of section covered in main map. 1: 12,000000. 5.5 x 6.5. Hodson, 1910, p. 167.

617. CROQUIS DE LA CIUDAD DE LA PAZ NUEVO RADIO URBANO, Juan Boettger, Imp. y Lit. Boliviana, La Paz, 1912. The City of La Paz and new suburbs. Plan. Com., phy. Col., mntd. 1: 9,000. 58.2 x 71.8.

618. MAPA DEL DEPARTAMENTO DE LA PAZ, Eduardo Idiaquez. 12°30' to 18° latitudes S. and 66°30' to 68°30' longitudes W. of Greenwich. Southeastern part of the department of La Paz. Capitals, cities and towns railways and roads. Map in 3 sections. Com., phy., pol. Pho. 1: 750,000. 27.1 x 25.5; 25 x 28.5; 32.8 x 22.9. 1 additional copy on file. 4 copies of section, 14° to 16° latitudes S. 27.1 x 25.5; 26.5 x 20.7. 3 copies (2 mntd.) of section, 15°35' to 18° latitudes S. 32.8 x 22.9. 1 copy of section, 15°50' to 17°50' latitudes S. 26 x 20.6.

619. MAPA TOPOGRAFICO DE LA LAGUNA DE LA PAZ Y DE CHUCUITO CON TODAS SUS YSLAS Y LAS PROVINCIAS QUE LA CIRCULAN, COMO SON OMASUYOS, PACAJES CHUCUITO PUNO Y GUANCANE, SEGUN SE DEMUESTRA POR SUS RESPECTIVAS DIVISIONES. 1873-1893. Exact copy of Manuscript map (full size) made in 1573 for the Viceroy Don Francisco de Toledo, (Original in Peru). Topographical position of Lake La Paz and Lake Chucuito, their islands and surrounding territories of Pacajas, Chucuito, Puno and Guancane, northwestern Bolivia. Com., phy., pol. 31.6 x 53.2.

Bandelier, 1910, f.p. 358.

620. RECONNAISSANCE MAP SHOWING COUNTRY BETWEEN LA PAZ AND YUNGAS, Engineering Department, Antofagasta a Bolivia Ry. Co. Ltd., 1910. Alternative and proposed lines between La Paz and Yungas. Com., phy. Pho. 1 cm = 1 km. 42.3 x 53. Inset: Profile of route from La Paz to Coripata. 8.7 x 13.4. Scale applies to original only.

621. MAPA DE RECONOCIMIENTO DEL FERROCARRIL LA PAZ-YUNGAS, Imp. y Lit. Boliviana, H. Heitmann and Co., La Paz, 1910. Reconnaissance map of the country between La Paz and Yungas. Proposed railway, alternative line, roads. Com., phy. 1 cm = 1 km. 43.3 x 51.5. Inset: Profile of route from La Paz to Coripata. 7.8 x 12.3. 5 photostatic copies on file. 25.2 x 30.1. Scale applies to original only.

622. [RIO ORTON]. Course of the Orton River from Puerto Rico to the Beni River in northeastern Bolivia. Sketch. Ms. 26.8 x 20.3.

623. MAPA DE RECONOCIMIENTO PARA EL FERROCARRIL POTOSI-SUCRE, Lit. e Imp. Boliviana, H. Heitmann and Cia., La Paz, 1914. Reconnaissance map of the country between Potosi and Sucre, southwest Bolivia. Line recommended by the Bolivian Railway. Variations recommended by W. J. Milner, lines via Croyo, Potolo, Nuccho, Obra de Pulqui, highways, mule trails. Com., phy. Col., mntd. 1: 200,000. 40.6 x 41.5. Profile: Potosi to Sucre. 10.8 x 17.

624. RECONOCIMIENTO PARA UN FERROCARRIL EN LA REPUBLICA DE BOLIVIA ENTRE SALINAS (RIO BENI) Y CORIPATA (RIO TAMANPAYA) MOSTRANDO LA DIRECCION PROPUESTA DE DICHA VIA. Preliminary survey for a railway in the Republic of Bolivia between Puerto Salinas on the Rio Beni and Coripata on the Rio Tamampaya, showing the proposed route for the line. Map in 13 sections. Com., phy. Pho. 1 section, 29 x 30.8; 1 section 29 x 18.9; 1 section (mntd.), 28.7 x 53.7; 6 sections (mntd.), 28.7 x 70;

2 sections (mntd.), 28.7 x 65.5; 1 section (mntd.), 28.7 x 31.5; 1 section, 27.8 x 32.5.

625. MAP OF QUIMZA CRUZ DISTRICT, The Engineering and Mining Journal, ca. 1911. Topography of Quimza Cruz mining district, northwestern Bolivia. Sketch. Econ., phy. 7.2 x 5.8.  
Armas, 1911, p. 360.

626. [REYES TO JUNCTION WITH RIVER MAMORE AND TO RIO YACUMA ON MAMORE RIVER, ALSO YACUMÁ RIVER], Edwin R. Heath, Kansas City. The course of the Yacuma River from Reyes to its junction with the Mamore River, and the Mamore River from its junction to the Yacuma River, 59 sections, bound in book form. Sketch. Com. Pho. 13.8 x 23.8. 3 additional copies on file.

627. PLANO DE LA CIUDAD DE SAN MIGUEL, Miguel Angel Rosales, 1923. Woodcut executed by Francisco A. Moreno. Plat of the city of San Miguel. Com. Mntd., sha. 0.01: 100.000. 36.2 x 29.1.

628. MAPA DE LAS MISIONES DE LA COMPANIA DE JHS EN EL TERRITORIO DE MOXOS I CHIQUITOS, EN LA GUBERNACION I COMANDANCIA GRAL DE SANTA CRUZ DE LA SIERRA, MARCHANDO EN EL, EL TERRENO DE S.M.C. QUE OCUPAN LOS PORTUGUESES, Antonio Aymerich, La Plata, 1764. Original in the Archive General de Indias, Sevilla. 11° to 20° latitudes S. and 312° to 321° longitudes E. of the Isla del Fierro. Jesuit Missions in the Comandancia General of Santa Cruz de Sierra and surrounding territories, Chiquitos and Moxos, of His Catholic Majesty occupied by the Portuguese. Road from Santa Rosa, Moxos to La Plata, capital of Characas. Com., hist., phy. Col. 2.5 cm = 20 le. 25.2 x 33.6.  
Saavedra, 1906, v. 2, f.p. 150.

629. [RIO TAHUAMANU]. Course of the Tahuamanu River from Porvenir to Puerto Rico, northwestern Bolivia. Sketch. Mntd., ms. 25.4 x 19.2.

630. MAP OF TIN DISTRICT OF BOLIVIA SHOWING PRINCIPAL MINES, ca. 1927. Tin districts of Caracoles, La Fabulosa, Oruro, Potosi, western Bolivia; railways. Outl. Com., econ., pol. 15.2 x 13.1.  
Tin production in Bolivia, 1927, p. 39.

631. MAP OF THE RIO TIPUANI WITH ITS PRINCIPAL PLACER BASINS, G. W. and C. B. Colton and Co., ca. 1889. To accompany the Report of Frederick G. Corning. Location of gold deposits along the Tipuani River, western Bolivia. Com., econ., phy. 1: 50,000. 17.7 x 8.9.  
Corning, 1889, p. 53.

632. MAP OF THE ISLAND OF TITICACA AND SURROUNDINGS, Rudolph Weber, ca. 1910. Reduced and redrawn from original made by Adolph F. Bandelier. Island belonging to Bolivia in Lake Titicaca, between northwestern Bolivia and Peru. Phy. Sha. 3 5/16 in. = 2 mi. 29.8 x 43.  
Bandelier, 1910, f.p. 6.

633. FERROCARRIL A YUNGAS, Imp. y Lit. Boliviana, H. Heitmann and Co., La Paz, 1916. Horizontal plan of the La Paz to Yungas Railway sur-

vey from 0.000 to 9.700 km. Map in 3 sections. Com., phy. Pho. 1: 10.000. 23.7 x 34; 23.7 x 30.5; 23.7 x 26.5. 2 additional copies on file.

634. FERROCARRIL A YUNGAS, Imp. y Lit. Boliviana, H. Heitmann and Co., La Paz, 1916. Vertical profile of La Paz to Yungas Railway survey from 0 to 20 km. Map in 3 sections. Pro. Com., phy. Pho. Hor. 1: 20.000, ver. 1: 2000. 26 x 34.9. 2 additional copies on file.

#### 4. Brazil

635. ALTO ACRE, J. H. Fawsett, Imp. y Lit. Boliviana, La Paz, 1907. 10°40' to 11°20' latitudes S. and 68°40' to 70°20' longitudes W. of Greenwich. Acre River from its source to Bella Flor, Department of Upper Acre, Territory of Acre, southwestern Brazil along Boliviana border. Distribution of Indians. Ethnog., pol. 6.7 cm = 19 km. 21.1 x 52.3. 5 photostatic copies on file. 20.2 x 49.5. Scale applies to original only.

636. [AMAZONAS]. 04° to 09° latitudes S. and 58° to 62° longitudes W. of Greenwich. Rio Madeira and tributaries of Aripuana, State of Amazonas, western Brazil. Sketch. Mntd., pho. 36 x 27. 3 copies (1 mntd.) on file. 28.6 x 22.8.

637. ESTADO DO AMAZONAS, Ermanno Stradelli, Aillaud and Co., 1906. Published during the administration of Governor A. Constantino Nery. 05°25' N. to 11°25' S. latitudes and 13° to 31° longitudes W. of Rio de Janeiro. Capitals, cities, estates, small farms, missions, towns. Com., phy., pol. Col., mntd. 1: 1,111,000. 180.5 x 187. Inset: Planta Manaus e Arrabaldes. Plan of Manaus and suburbs. 27.3 x 28.

638. THE AMAZON BELOW OBIDOS, ca. 1907. 02° N. and 03° S. latitudes and 48° to 55° longitudes W. of Greenwich. Course of the Amazon River and its tributaries from Obidos, Brazil to the Atlantic Ocean. Outl. Com., phy. Col. 1 15/16 in. = 100 mi. 23 x 29.5. Craig, 1907, f.p. 116.

639. THE AMAZON DELTA AND MARAJÓ ISLAND. 01° N. to 03° S. latitudes and 05° to 09° longitudes W. of Rio de Janeiro. Location of Amazon Delta and Marajó Island in Pará, northeastern Brazil. Sketch. 12.6 x 11.5. Lange, 1914, f.p. 342.

640. DELTA OF THE AMAZON, W. and A. K. Johnson Ltd., The Royal Geographical Society, London, 1899. From the Mappa do Estado do Pará pelo Ingenheiro H. de Santa Rosa. 02°30' N. to 03°30' S. latitudes and 47°30' to 55°30' longitudes W. of Greenwich. Mouth of the Amazon, northeastern coast of Brazil. Com., phy. Col., mntd. 1 15/16 in. = 100 mi. 22 x 29.5. 5 photostatic copies of section, 02°30' S. latitudes and 47°30' to 52°45' longitudes W. of Greenwich. 22.4 x 19.

641. THE AMAZON RIVER FROM PARÁ TO MANAOS, U. S. Hydrographic Office, Washington, 1882. Original survey by the U. S. S. Enterprise in



1878. (Corrected to Dec. 31, 1920). 6 Sheets: I, No. 887, Mouth of Pará River. 00°10' to 02°35' latitudes S. and 47°50' to 49°25' longitudes W. of Greenwich. Inset: Goiabal Shoals. 01°37'33" latitude S. and 49°10'29" longitude W. of Greenwich. 2 1/2 in. = 1 nau. mi. 13 x 19.5. II, No. 888, From Santa Cruz Id. to Vierira Branch. 00°50' to 02°10' latitudes N. and 49°20' to 51°10' longitudes W. of Greenwich. III, No. 889, From Viera Branch to Maracas Id. 01° to 02°30' latitudes S. and 51°10' to 54°30' longitudes W. of Greenwich. IV, No. 890, From Maracas Id. to Villa Bella. 01°40' to 03°20' latitudes S. and 54°50' to 56°40' longitudes W. of Greenwich. Inset: Anchorage off Santa Anna. 02°04'49" latitude S. and 56°00'26" longitude W. of Greenwich. 3 in. = 1 nau. mi. 20.1 x 38.5. V, No. 891, From Villa Bella to Serpa. 02°05' to 03°25' latitudes S. and 56°40' to 58°30' longitudes W. of Greenwich. VI, No. 892, From Serpa to Manaos. 02°04' to 04°02' latitudes S. and 58°20' to 58°32' longitudes W. of Greenwich. Com., hydro., phy. Col., sha. Soundings in fathoms, elevations in feet. 73.3 x 99.2.

642. MOUTH OF AMAZON RIVER AND VICINITY, MARCA ISLAND TO SAN JOÃO ISLANDS, U. S. Hydrographic Office, Washington, 1886. Compiled from latest French, Brazilian, and United States Surveys, 1886. No. 886. Extensive corrections Jan. 1909. 02°30' N. to 02° S. latitudes and 45° to 52°10' longitudes W. of Greenwich. North coast of Brazil. Anchorages, cities and towns, navigation lights. Com., hydro., phy. 69.8 x 111.2.

643. SKETCH MAP OF THE AMAZONS AND ITS TRIBUTARIES, NEAR THE MOUTH OF THE TAPAJÓS, R. D. Servoss, N. Y., ca. 1879. Based on maps by D. S. Ferreira-Panna and Joas Barboza Rodriguez. 01° to 03° latitudes S. and 10°23' to 13° longitudes W. of Rio de Janeiro. Course of rivers, islands, lakes. Phy. 19.2 x 25.3. Inset: River Tapajós, from the Apuim Fall to the Mouth. 02° to 04°30' latitudes S. and 11°30' to 13° longitudes W. of Rio de Janeiro. 6.7 x 4.9.  
Smith, 1879, front.

644. BRAZIL, The London Geographical Institute, George Philip and Son, London, ca. 1910. 05° to 24° latitudes S. and 34° to 75° longitudes W. of Greenwich. Cities and towns, railways, roads, steamer routes (distances in nautical miles), submarine cables. Com., phy., pol. Col., sha. 1 3/8 in. = 300 mi. 33.8 x 34.5.  
Domville-Fife, 1910, f.p. 74.

645. OFFICIAL MAP OF BRAZIL, João Crockatt de Sa Pereira de Castro and Eduardo A. G. Thompson, Mc Corquodale and Co., London. Revised and brought up to date specially for the Brazilian Year Book, by E. A. Lassance Cunha. 05° N. to 34°30' S. latitudes and 14°30' E. to 35° W. longitudes from Rio de Janeiro. Cities and towns, navigable stretches of river, railways under construction, projected, surveyed and under survey, submarine cables. Com., phy., pol. Col., mntd. 2 7/8 in. = 400 mi. 55.1 x 56.1.

646. PHYSICAL MAP OF BRAZIL, James W. Wells, Edwd. Weller, for the Proceedings of the Royal Geographical Society, 1886. 07° N. to 34° S. latitudes and 32° to 75° longitudes W. of Greenwich. A sketch indicating the surface configuration of the country. Forest, grass

and scrub, arid sandy savannas or moorlands, railways. Com., econ., pol. 1 3/4 in. = 300 mi. Elevations in feet. 44.8 x 45.6.

647. SKETCH MAP OF NORTHEASTERN BRAZIL. 09° N. to 19° S. latitudes and 34° to 61° longitudes W. of Greenwich. Region explored by Algot Lange. Pol. 11.7 x 11.5.  
Lange, 1914, f.p. 444.

648. THE SEAPORTS OF BRAZIL, Stanford's Geographical Establishment, London, ca. 1885. 03° to 30° latitudes S. and 34° to 50° longitudes W. of Greenwich. Cities, ports, towns, railways, submarine telegraph cables, on the east coast of Brazil. Com., phy., pol. Col. 1 1/4 in. = 100 mi. 63.8 x 16.  
Bates, 1885, f.p. 427.

649. ECONOMIC MAP OF THE UNITED STATES OF BRAZIL, 1912. Specially drawn for Brazil in 1911. Principal cities and towns, distribution of agricultural and mineral products. Accompanying table giving time and mileage from Rio de Janeiro to important ports. Com., pol. 36.8 x 31.8.  
Oakenfull, 1912, front.

650. THE PRINCIPAL BRAZILIAN RAILWAYS. Cities and towns, principal railways, rivers of east coast. Outl. Com. 12.5 x 8.  
Davies, 1930, p. 144.

651. KARTE ZUR ÜBERSICHT VON H. BURMEISTER'S REISE IN BRASILIEN IM JAHRE 1850, H. Mahlmann, Lith., ca. 1853. Compiled from the best sources. Based on Herman Burmeister's travels in Brazil. 18° to 23° latitudes S. and 44° to 47° longitudes W. of Paris. Cities and towns, roads, route. Com., phy., pol. Col., sha. 45.1 x 28.8.  
Burmeister, 1853, f.p. 608.

652. REISEWEGE VON THEODOR KOCH-GRUNBERG IN NORTHWEST-BRASILIEN, 1903-1905, H. Dengler. Territory on Rio Negro and tributaries, northwestern Brazil, settlements, Indian villages. sketch. Com. 1: 3 750 000. 14.4 x 13.1. Inset: Location of area explored in Brazil. 05° N. to 05° S. latitudes and 45° to 75° longitudes W. of Greenwich. 1: 25 000 000. 4.9 x 13.1.  
Koch-Grunberg, 1921, f.p. 416.

653. MAP OF THE RIVERS CANUMÁ, ABACAXIS, & MAUE-ASSÚ & ITS TRIBUTARIES, Edwd. Weller, for the Journal of the Royal Geographical Society, J. Murray, London, 1870. Reduced from the original map by Chandless. 03°15' to 06°20' latitudes S. and 57° to 59°40' longitudes W. of Greenwich. Latitude and longitude of various points along the rivers. Com., hydro., phy. Col., mntd. 1 3/4 in. = 30 mi. 31.5 x 27.4. Inset: Sketch Map Showing the Connection of the Rivers Canumá &c. with the River Amazon. 7.7 x 10.2.

654. [CAOUTCHOUC REGION], A. Lange, 1910. 04° to 06°35' latitudes S. and 70° to 72° longitudes W. of Greenwich. Area covered by the Algot Lange Expedition in 1910, showing deviations from Stieler's Atlas, distribution of Indians, rivers. Sketch. Com., ethnog. 1 5/8 in. = 36 mi. 18.5 x 15.  
Lange, 1910, back.

655. COBIJA (IGARAPE BAHIA), E. Benavides. 11°01' latitude S. and 68°46'04" longitude W. of Greenwich. Plan of the city of Cobijsa, Brazil, formerly Bolivian territory. Com. Col., mntd. 1: 5,000. 37 x 35.

656. TOPOGRAPHICAL AND ARCHAEOLOGICAL SKETCH OF ILHA PACOVAL. Flat low and pottery strewn beaches, ridge, low canarana - swamp or mondongo Pacoval Island, Lake Arary, State of Pará, northeastern Brazil. Sketch. 1.6 cm = 10 m. 6 x 17.9. Lange, 1914, f.p. 308.

657. MAP OF THE RIVER JURUÁ, W. C. Chandless, Edw. Weller, Lith., for the Journal of the Royal Geographical Society, J. Murray, London, 1869. 02°30' to 07°30' latitudes S. and 65° to 73° longitudes W. of Greenwich. State of Amazonas, western Brazil. River Juruá for a distance of 890 geographical miles from its mouth. Distribution of Indians. Map in 2 sections. Com., ethnog., hydro. Col., mntd. 4 3/16 in. = 50 mi. 19.2 x 48; 19.1 x 69.2.

658. THE MADEIRA RIVER FROM ITS MOUTH TO THE FALLS OF SAN ANTONIO, U. S. Hydrographic Office, Washington, 1882. Original Survey by U. S. S. Enterprise in 1878. (Corrected to Jan. 7 1921). 5 sheets: I, No. 893, From the Mouth of the River to Trocana Id. 03°15' to 04°25' latitudes S. and 58°35' to 59°30' longitudes W. of Greenwich. II, No. 894, From Trocana Id. to Mataura Id. 04°05' to 05°30' latitudes S. and 59°30' to 60°45' longitudes W. of Greenwich. Inset: Rocks Off Orua Id. 05°19'36" latitude S. and 60°44'33" longitude W. of Greenwich. 1 3/4 in. = 1 nau. mi. 26.5 x 18.9. III, No. 895, From Mataura Id. to Tapuru Id. 05°20' to 06°30' latitudes S. and 61°05' to 62°20' longitudes W. of Greenwich. IV, No. 896, From Tapuru Id. to Veados Id. 06°20' to 08°05' latitudes S. and 62°20' to 63° longitudes W. of Greenwich. V, No. 897, From Veados Id. to Sn. Antonio. 07°50' to 09° latitudes S. and 62°55' to 64° longitudes W. of Greenwich. Location of Parintintin Indians (Cannibals). 2 insets: 1. Rocks Off Abelhas. 2 15/16 in. = 1 nau. mi. Soundings in fathoms, at low water. 18.2 x 25.7. 2. San Antonio and Its Approaches. 08°48'13" latitude S. and 63°56'07" W. of Greenwich. 6 1/16 in. = 3 cables. Soundings in feet, at low water. 23.1 x 25.8. Com., ethnog., ethmol., hydro., phy. Col., sha. 72 x 98.2.

659. MAPPA DO RIO MADEIRA DESDE A FOZ ATE PORTO VELHO, A. K. Anderson, 1911. Course of the Rio Madeira. Com., ethnog., hydro., phy. Blueprint, mntd. 5 Sheets: 1. Rio Amazonas to Boca do Sampeia, Boca do Sampeia to Borba. 71.8 x 101.7. 2 insets: a. Diagramma de nivel d'agua do Rio Negro em Manaos, 1903-1910. Elevations in meters above sea level of the Rio Negro at Manaos for each month of the year. 19 x 29. b. Rio Madeira. Elevations in meters above sea level at Porto Velho for each month from 1908-1911. 19 x 22.7. 2. Borba to São Pedro, Sao Pedro to Rio Aripuana, Rio Aripuana to Rio Mataura. 71.6 x 97.5. 3. Rio Mataura to Feliz Victoria, Feliz Victoria to Praceres de Gondamar, Praceres de Gondamar to São Rafael. 71.4 x 97.7. 4. São Rafael to Calamar. 70.5 x 97.3. Calamar to San Luzia, San Luzia to Porto Velho. Location of region inhabited by the Parintintin Indians. 71.5 x 97.1.

660. NOROESTE DO ESTADO DE MATTO GROSSO, 1918. 02° to 15° latitudes S. and 13° to 23° longitudes W. of Rio de Janeiro. Northwestern part of the State of Matto Grosso, Brazil. Fiscal agencies and offices, projected fiscal agencies and offices railway, telegraph lines, offices. Com. Blueprint. 1: 1.500000. 95.5 x 77.2. 1 additional blueprint and 5 photostatic copies of portion of map covering the fiscal agencies of Rio Juary, Rio Mamoré, Rio Mutum Paraná, and Part of Rio Guaporé. 07°30' to 12°30' latitudes S. and 19 to 23°30' longitudes W. of Rio de Janeiro. 2 copies, 33.2 x 25; 3 copies (1 mntd.), 36 x 29.

661. GEOGRAPHICAL DISTRIBUTION OF THE INDIANS, MATTOGROSSO, BRAZIL, ca. 1917. 12° to 14° latitudes S. and 44° to 48° longitudes W. of Greenwich. Distribution of Indians, rivers, telegraphic line. Com., ethnog. 4.8 x 9.2.

Pinto, 1917, p. 359.

662. THE CONNECTION BETWEEN THE MOJU AND THE TOCANTINS RIVERS. From a sketch by Algot Lange. 01°45' to 02°05' latitudes S. and 05°30' to 06°15' longitudes W. of Rio de Janeiro. Location of neutral tidal zone of Juráña and Miritypukū Rivers, State of Pará, northeast Brazil. Sketch. Hydro. 8.5 x 15.4.

Lange, 1914, f.p. 77.

663. [RIO NEGRO], Day and Haghe, Lith., London, ca. 1836. Course of Rio Negro in northwestern Brazil from its headwaters to its junction with the Amazon, falls, rapids, tributaries, towns. Sketch. Phy. 13.8 x 21.9.

Smyth and Lowe, 1836, f.p. 293.

664. PARA RIVER, CHANNEL TO PARA, U. S. Hydrographic Office, Washington, 1893. No. 1375. Extensive corrections, Dec. 1912. 01°08' to 01°32' latitudes S. and 48°22' to 48°37' longitudes W. of Greenwich. Plat of the Port of Pará telegraph cables, navigation lights, railways. Com., hydro. Sha., mntd. Soundings in fathoms. 96.8 x 63.

665. PLANTA DA CIDADE DO PARA, Manoel Odorico Nina Ribeiro, C. Wiengandt, Lith., Pará, ca. 1883-1886. Made by order of Vereação do Quatrienio. Plat of the city of Pará, State of Pará, buildings of interest, railways. Com. Col. 1: 24.000. 30.5 x 35.3.

Pará, Brazil (State), 1893, f.p. 28.

666. PORT OF PARÁ, BRAZIL, The Engineering Magazine, ca. 1909. Channel, docks, soundings of harbor, roads, power transmission and telephone lines. Sketch. Com., hydro. 1 1/8 in. = 2000 m. 10.2 x 16.4.

St. Clair, 1909, p. 4.

667. PORT OF PARÁ, SKETCH PLANS OF PORT WORKS, Waterlow and Sons, Ltd., London, 1911. Cross section through warehouses, general plan of quays, general plan showing quays at Pará and shipyard at Val-de-caes, privileged zone of port. Com., hydro. Col. 1 in. = 1000 ft. 21.5 x 37.

Hale, 1912, f.p. 696.

668. PORT OF PARÁ, PLAN OF THE CITY OF PARÁ AND OF THE PRIVILEGED ZONE OF THE PORT, Waterlow and Sons, Ltd., London, 1911. Limits of privileged zone, telegraph lines, railways, roads. Com. Col. 22.3 x 42. Inset: Pará River, one of the Mouths of the Amazon, Between Pará & the Atlantic Ocean. 00°15' to 02° latitudes S. and 47°35' longitudes W. of Greenwich. 14.1 x 10.3.

Hale, 1912, f.p. 698.

669. MAPPA DA DISTRIBUIÇÃO GEOGRAPHICA DAS PRINCIPAES ARVORES FORNECEDORAS DE GOMMA ELASTICA NO ESTADO DO PARA, SEGUNDO OS DADOS FORNECIDOS PELO MUSEU GOELDI E PELA SECRETARIA DA FAZENDA DE ESTADO E ORGANISADO PELOS DRS. JOSE PISCANÇO DINIZ E JACQUES HUBER, Ernesto Lohse and Co., Lith., Pará. 05° N. to 09° S. latitudes and 03° to 16° longitudes W. of Rio de Janeiro. Geographical distribution of the principal rubber producing districts in the State of Pará, northeastern Brazil. Com., econ., phy., pol. Col. 1: 4.358.900. 35.4 x 29.5. 1 additional copy on file.

670. MAP OF THE STATE OF PARÁ, Wm. J. Wilson, ca. 1914. Drawn to accompany The Lower Amazon, by Algot Lange. 04°30' N. to 09°30' S. latitudes and 46° to 58°45' longitudes W. of Greenwich. Cities and towns, distribution of Indians, rivers, northeastern part of Brazil. Com., ethnog., phy., pol. Mntd., sha. 1 5/8 in. = 200 mi. 32.9 x 29.7.

671. MAP OF THE STATE OF PARÁ. 05° N. to 10° S. latitudes and 03° to 16° longitudes W. of Rio de Janeiro. Principal cities and towns, road, northeastern Brazil. Com., phy., pol. 54 x 48.3.

Pará, Brazil (State), 1993, B.

672. BAY OF RIO DE JANEIRO, E. Yeager, Sc., ca. 1845. Anchorage for Men-of-War, merchant vessels discharging cargo, merchant vessels receiving cargo. Com., hydro., phy. 1 7/16 in. = 6 mi. 17.1 x 10.1.

Kidder, 1845, f.p. 197.

673. LAGEPLAN VON RIO DE JANEIRO. Railways and roads, topography of vicinity. Com., phy. Sha. 1: 126 000. 12 x 13. Inset: Location of Rio de Janeiro. 1: 900 000. 4.1 x 3.9.

Sievers, 1914, p. 193.

674. [RIO ROOSEVELT]. 03°30' to 07° latitudes S. and 58°40' to 61°20' longitudes W. of Greenwich. The so-called River of Doubt, tributary of the Madeira, State of Amazonas, western Brazil. Sketch. Pho. 44.5 x 25.8. 7 copies (1 mntd.) on file. 26.1 x 15.2.

675. MAP OF THE RIO ROOSEVELT, The Royal Geographical Society, London, 1915. From surveys by the Roosevelt-Rondon Expedition, Feb. 27- April 30, 1914. Reduction of a 1: 200,000 manuscript map supplied by Col. Theodore Roosevelt. Course of the Rio Roosevelt from its source at 12°01' latitude S. and 60°15' longitudes W. of Greenwich to its junction with the Madeira at 05°07' latitude S. and 60°23' longitudes W. of Greenwich. Map divided into 6 sections and an index. Houses and shelters, islands, lagoons, rapids, tributaries. Com., hydro., phy. Col., mntd. 1: 400,000. 33.8 x 63. Inset: Index. 00° to 18° latitudes S. and 56° to 70° longitudes W. of Greenwich. 7.8 x 8.9.

676. SKETCH MAP OF THE UNKNOWN RIVER CHRISTENED RIO ROOSEVELT, AND SUBSEQUENTLY RIO TEÓDORO, BY DIRECTION OF THE BRAZILIAN GOVERNMENT, Theodore Roosevelt, ca. 1914.  $03^{\circ}$  to  $13^{\circ}$  latitudes S. and  $59^{\circ}$  to  $62^{\circ}$  longitudes W. of Greenwich. Course of Rio Teodoro and tributaries from its source to its confluence with Madeira River, rapids, telegraph road. Sketch. Com. 17.6 x 6.4.

Roosevelt, 1914, f.p. 338.

677. ROUTE OF CORPS NO. 1 FROM SAN PATRICIO TO LAS PEDRAS. Survey of Madeira and Mamoré Railway, from San Patricio on Madeira River to Las Pedras on Jaci Paraná River, western Brazil. Sketch. Com.  $7/8$  in. = 2 mi. 9.9 x 14.3.

Craig, 1907, f.p. 332.

678. LACEPLAN VON SANTOS. City and port of Santos, railways and roads. Plat. Com., phy. Sha. 1: 200000. 7.2 x 8.9.

Sievers, 1914, p. 195.

679. A SKETCH MAP OF LOWER TOCANTINS AND MOJU RIVERS, Algot Lange, ca. 1914.  $01^{\circ}15'$  to  $04^{\circ}$  latitudes S. and  $05^{\circ}$  to  $06^{\circ}15'$  longitudes W. of Rio de Janeiro. Channels, rapids, course of rivers, towns and villages, State of Pará, northeast Brazil. Sketch. Hydro. 17.4 x 10.4.

Lange, 1914, f.p. 94.

680. PLAN OF THE RIVERS UCAYALI & AMAZON FROM THE MISSION OF SARAYACU TO THE RIO NEGRO, J. and C. Walker, Engr., John Murray, London, 1836. From the observations of Lieut. Wm. Smyth and Mr. Fredk. Lowe, R.N., 1835.  $02^{\circ}23'$  to  $06$  latitudes S. and  $59^{\circ}$  to  $74^{\circ}$  longitudes W. of Greenwich. Course of Amazon River from its junction with the Ucayali through western Brazil to the mouth of the Rio Negro; distribution of Indian tribes; settlements and Indian villages. Com., ethnog., hist., hydro., phy.  $1\ 3/8$  in. = 50 mi. 19.7 x 82.2. Inset: Continued from the Map of Shpix and Martius to Para.  $00^{\circ}$  to  $04^{\circ}$  latitudes S. and  $48^{\circ}$  to  $60^{\circ}$  longitudes W. of Greenwich. 7.8 x 21.6.

Smyth and Lowe, 1836, back.

##### 5. Chile

681. ANTOFAGASTA (CHILE) & BOLIVIA RAILWAY, Waterlow and Sons, London.  $15^{\circ}50'$  to  $24^{\circ}$  latitudes S. and  $68^{\circ}$  to  $71$  longitudes W. of Greenwich. Railways between Arica and Tacna, Písaqua and Patillos, connections with the ports: Junin, Caro Buena, Iquique, Antofagasta, and to Collahuasi via Calama, Toeopilla and Toco. Com., phy., pol. Col. 22.8 x 7.9.

682. ANTOFAGASTA ROAD (MORENO BAY), U. S. Hydrographic Office, Washington, 1889. From a Chilean Survey in 1904. No. 1152. Extensive corrections Feb. 1898, Feb. 1907. (Corrected to Mar. 11, 1921).  $23^{\circ}37'$  to  $23^{\circ}40'$  latitudes S. and  $70^{\circ}24'$  to  $70^{\circ}26'$  longitudes W. of Greenwich. Types of bottom, navigation lights, plat of Antofagasta, railway, road, submarine cables entering city, northwestern coast of Chile. Com., hydro., phy. Mtd., sha.  $5\ 7/8$  in. = 1 nau. mi. Sounding in fathoms, elevations in feet. 45.6 x 35.8. Inset: Abtao Cove. From a Chilean Survey in 1885. (From H. O. Chart No. 1219).  $23^{\circ}30'15''$

to 23°31' 45" latitudes S. and 70°32'10" to 70°33'10" longitudes W. of Greenwich. 2 in. = 1/2 nau. mi. Soundings in fathoms. 15.8 x 9.8.

683. ARICA ROAD, U. S. Hydrographic Office, Washington, 1890. From British, French, and Chilean Surveys. No. 1203. Extensive corrections Nov. 1894, Oct. 1907. (Corrected to Mar. 11, 1921.) 18°25' to 18°31' latitudes S. and 70°16' to 70°23' longitudes W. of Greenwich. Navigation lights, types of bottom, buoys, plat of Arica, railway and roads leaving city, northwestern coast of Chile. Com., hydro., phy. Mntd., sha. 6 in. = 3 nau. mi. Soundings in fathoms, elevations in feet. 39.2 x 35.2.

684. THE CHILEAN RAILWAYS. Principal railways of Chile from Arica to Castro. Outl. Com., pol. 13.9 x 8.9.  
Davies, 1930, p. 260.

685. MAP SHOWING CONNECTIONS OF CHILEAN RAILWAYS WITH THE NUMEROUS SEAPORTS, F. A. Godoy, ca. 1929. 18° to 46° latitudes S. and 66° to 76° longitudes W. of Greenwich. Railways in operation and projected. Map in 2 sections. Com., phy., pol. 1 in. = 150 mi. 18.8 x 6; 18.8 x 5. Inset: South America. Location of section covered by main map. 5.6 x 3.2.

Reid, 1929, p. 161.

686. IQUIQUE ROAD, U. S. Hydrographic Office, Washington, 1889. No. 1147. Extensive corrections Sep. 1899. (Corrected to Mar. 11, 1921.) 20°10' to 20°15' latitudes S. and 70°08' to 70°12' longitudes W. of Greenwich. Types of bottom, navigation lights, plat of Iquique, railways and submarine cables, northern coast of Chile. Com., hydro., phy. Mntd., sha. 6 in. = nau. mi. Soundings in fathoms, elevations in feet. 50.4 x 40.2.

#### 6. Colombia

687. SKETCH OF SURVEYS ANORÍ TO CÁCERES, Intercontinental Railway Commission, A. Hoen and Co., Baltimore, 1892. Survey of country between Anorí and Cáceres. State of Antioquia, northwestern Colombia. Com., phy. Col. 1 1/4 in. = 10 mi. 27.7 x 22.  
Intercontinental railway commission, 1895-98, v. 2, f.p. 80.

688. SECTION OF RÍO ATRATO AT RÍO-SUCIO, Intercontinental Railway Commission, A. Hoen and Co., Baltimore, 1893. Sectional view of the junction of Río Atrato and Río-Sucio, Department of Cauca, southwestern Colombia, showing stages of water in the Río Atrato at different periods during the year. Com., hydro. Col. 27.7 x 22.  
Intercontinental railway commission, 1895-98, v. 2, f.p. 128.

689. SKETCH MAP CÁCERES TO CARTAGENA, Intercontinental Railway Commission, A. Hoen and Co., Baltimore, 1892. Survey of country between Cáceres and Cartagena, northern Colombia. Com., phy. Col. 2 in. = 50 mi. 27.7 x 22.  
Intercontinental railway commission, 1895-98, v. 2, f.p. 82.

690. SKETCH MAP CARTAGO TO AMBALEMA, Intercontinental Railway Commission, A. Hoen and Co., Baltimore, 1892. Line of Intercontinental Railway Survey from Cartago to Ambalema, barometric and proposed reconnaissance. Com., phy. Col. 1 1/4 in. = 10 mi. Elevations in feet and meters. 27.7 x 40.6.

Intercontinental railway commission, v. 2, insert pp. 58-59.

691. BAY OF CARTHAGENA, J. Mynde, Sc., ca. 1772. Plan of the Bay of Carthagena, north coast of Colombia. Com., phy. Sha. 3/4 in. = 1,000 toises. 9 x 17.5.

Ulloa, 1772, f.p. 26.

692. PLAN OF CARTHAGENA, J. Mynde, Sc. ca. 1772. City of Carthagena on the north coast of Colombia. Location of the Cathedral, Port of St. Philip de Barras, and Hospital of St. Lazaro. Com., phy. 7/8 in. = 200 toises. 10.9 x 17.5.

Ulloa, 1772, f.p. 26.

693. DEPARTAMENTO DEL VALLE DEL CAUCA, Walter Barth Cali, 1922. Drawn especially for Borné and Barth. 02°13' to 05°07' latitudes N. and 01°06' to 03°25' longitudes W. of Bogota. Capitals, principal cities and towns, highways and roads, railways in operation and projected. Com., pol. Col., mntd. 1: 405000. 81.8 x 63.

694. COLOMBIA, REGIONS WITHIN WHICH CLIMATIC CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE CULTIVATION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division No. 2224, ca. 1926. 01° to 13° latitudes N. and 72° to 80° longitudes W. of Greenwich. Principal cities and towns, railways, limits of Hevea region. Com., econ., pol. Sha. 1 1/8 in. = 150 mi. 17.4 x 10.6.

Treadwell, 1926, p. 212.

695. RAIL AND RIVER ROUTES IN COLOMBIA. Principal cities and towns, railways and connecting river routes of travel. Outl. Com., pol. 14 x 9.

Davies, 1930, p. 268.

696. SKETCH OF PROBABLE LOCATION, POPAYÁN TO LA PLATA, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1892. Probable location of Intercontinental Railway between Popayán and La Plata, southwestern Colombia. Com., phy. Col. 1 in. = 6 mi. Elevation in feet and meters. 27.7 x 41.3.

Intercontinental railway commission, v. 2, insert pp. 52-53.

697. SKETCH OF EXPLORATION OF QUINDÍO PASS, Intercontinental Railway Commission, A. Hoen and Co., Baltimore, 1892. Line of Intercontinental Railway Survey of Quindío Pass, Department of Cauca, southwestern Colombia. Com., phy. Col. 1 in. = 2 mi. Elevations in meters. 27.7 x 22.

Intercontinental railway commission, v. 2, f.p. 52.

7. Ecuador



698. ECUADOR, REGIONS WITHIN WHICH CLIMATIC CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE CULTIVATION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division No. 2411, ca. 1926. 02° N. to 05° S. latitudes and 71° to 82° longitudes W. of Greenwich. Area with climatic conditions favoring the cultivation of Hevea Rubber, principal cities and towns railways. Com., econ., pol. Sha. 1 3/8 in. = 100 mi. 17.7 x 24.  
Treadwell, 1926, f.p. 247.

699. SKETCH MAP TO ILLUSTRATE EXPLORATIONS IN ECUADOR; IN THE YEARS 1856 AND 1857, John Arrowsmith, J. Murray, London, 1860. 01°35' N. to 05° S. latitudes and 75° to 80°35' longitudes W. of Greenwich. Principal cities and towns, route traveled by George James Pritchett. Com., phy., pol. Sha. 3/4 in. = 50 mi. 18.9 x 16.7.  
Pritchett, 1860, f.p. 64.

700. WESTERN ECUADOR, Hugh H. Bennett, ca. 1926. Base from Luis Tuffiño's Map of Ecuador, 1922. No. 2348. 01°30' N. to 04°40' S. latitudes and 77°40' to 81°15' longitudes W. of Greenwich. Elevation from: 0-100 m, 100-200 m, 200-500 m, over 500 m. Santa Domingo - Bucay Soil belt, moist throughout dry season. Geol., phy. 1 3/8 in. = 100 mi. 15.5 x 9.3.  
Treadwell, 1926, p. 251.

701. SOIL RECONNAISSANCE IN WESTERN ECUADOR, Hugh H. Bennett, ca. 1926. Base from Map of Ecuador by Luis G. Tuffiño, 1922. No. 2348-A. 01°30' N. to 05° S. latitudes and 77 to 81° longitudes W. of Greenwich. Contours and soil formation of Lowland Western Region and Andean Highlands. Geol., phy. Sha. 2.3 cm = 100 km. 16.2 x 10.8.  
Treadwell, 1926, p. 262.

702. MAP OF THE GUAYAQUIL & QUITO RAILWAY FROM DURAN TO GUAMOTE, Victoria, 1902. From Duran to Guamote, via Yagriachi, Naranjito, Supaypungo, Pesqueria, Barraganetal, San Rafael, Bucay to Victoria and from Bucay, Huigra, Alausi, Pueblo Viejo, Palmira, Ecuador. Com., phy. 1 in. = 20,000 ft. 15.3 x 29.2. Inset: Profile of the Guayaquil and Quito Railway from Duran to Victoria, and from Bucay to Guamote. Hor. 1 in. = 20,000 ft., ver. 1 in. = 2,000 ft. 6.6 x 18.4.

703. PLAN OF THE CITY OF QUITO, J. Mynde, Sc., 1772. Plan of city of Quito, northwestern Ecuador. Com., phy. Sha. 3/4 in. = 200 toises. 9.8 x 15.8.  
Ulloa, 1772, f.p. 92.

704. MAPA QUE COMPRENDE TODO EL DISTRITO DE LA AUDIENCIA DE QUITO, Francisco Requena, 1779. Lithographed by J. M. Domingues, Universidad Central, Quito, Ecuador, 1894. 04° N. and 10° S. latitudes and 20° E. and 06° W. longitudes from Quito. Political boundaries of the Audiencia (court of jurisdiction) of Quito, cities, missions, villages, roads. Com., hist., phy., pol. Col. 24.2 x 44.4.  
Saavedra, 1906, v. 2, f.p. 272.

8. Guianas

705. VIEW & PLAN OF THE FORTRESS CALLED AMSTERDAM, T. Conder, Sc., J. Johnson, London, 1891. Location of Amsterdam on the banks of the Commewina and Surinam rivers. Com., mil., phy. 17.5 x 13.5. Stedman, 1796, v. 1, f.p. 134.

706. PLAN OF THE PRINCIPAL FIELD OF ACTION BETWEEN THE RIVERS COT-TICA AND MARAWINA, T. Conder, Sc., J. Johnson, 1791. Creeks, demolished fields, points where troops were joined by black corps or rangers, posts, camping sites on the principal field of action against revolting negroes in Surinam, Dutch Guiana. Com., hist., mil., phy. 2 3/4 in. = 6 mi. 18.8 x 43.5. Inset: Sketch of the manner of Encamping in the Woods of Surinam. 11.2 x 8.3. Stedman, 1796, v. 2, f.p. 126.

707. A MAP OF GUIANA, &C., J. G. Stedman, T. Conder, Sc., J. Johnson, London, 1793. 09° N. to 03° S. latitudes and 48° to 79° longitudes W. of London. The Guianas in 1793, territory under Dutch, French, Portuguese and Spanish domination. Com., ethnog., hist., phy., pol. Sha. 2 in. = 250 mi. 19.5 x 44. Stedman, 1796, v. 1, front.

708. THE GUIANAS, Stanford's Geographical Establishment, London, ca. 1885. 01° to 08° latitudes N. and 52° to 62° longitudes W. of Greenwich. Cities and towns, distribution of Indians, rivers, submarine telegraph cables, British, Dutch, and French Guiana. Com., ethnog., phy., pol. Col. 1 3/4 in. = 100 mi. 18.8 x 24.1. Bates, 1885, f.p. 437.

709. GUIANAS (BRITISH, DUTCH & FRENCH) REGIONS WITHIN CLIMATIC CONDITIONS SEEM SUFFICIENTLY FAVORABLE FOR THE PRODUCTION OF HEVEA RUBBER, Department of Commerce, Geographic Section, Research, Drafting Division No. 2374. 01° to 09° latitudes N. and 50° to 62° longitudes W. of Greenwich. Principal ports, railways, Hevea rubber region. Outl. Com., econ., pol. 3/4 in. = 125 mi. 10.8 x 13. Treadwell, 1926, p. 295.

710. PLAN OF THE TOWN OF PARAMARIBO, T. Conder, Sc., J. Johnson, London, 1791. Plan of Paramaribo on the River Surinam, Dutch Guiana. Com., phy. 19.7 x 13.7. Stedman, 1796, v. 1, f.p. 288.

711. A MAP OF SURINAM, T. Conder, Sc., J. Johnson, London, 1791. 04°45' to 06°07' latitudes N. and 52°55' to 56°32' longitudes W. of London. Encampments by Col. Fourceoud and his troops, forts, military posts, negro settlements, Indian villages. Com., ethnog., mil., phy. 3 in. = 40 mi. 20 x 44.9. Stedman, 1796, v. 1, f.p. 30.

#### 9. Paraguay

712. PARAGUAY, The London Geographical Institute, George Philip and Son, London, ca. 1910. 21° to 27°30' latitudes S. and 54° to 61°30' longitudes W. of Greenwich. Cities and towns; railways in operation and projected, roads and tracks, telegraph lines. Com., phy., pol. Col.,

sha. 1 1/2 in. = 50 mi. 38.3 x 39.5.  
Domville-Fife, 1910, f.p. 178.

713. REPUBLIQUE DU PARAGUAY, Francois Wienes de Morgenstorn, 1846-1858. Edited in 1873 and dedicated by its author to the Paraguayan Congress. Com., phy., pol. Sha. 14.6 x 10.4.  
Ponte, 1929, p. 8.

10. Peru

714. MAP OF THE ANCACHS DEPARTMENT, Ch. Wiener, Erhard, Engr., ca. 1894. 08°22' to 09°57' latitudes S. and 78°59' to 80°25' longitudes W. of Paris. Capital, cities, towns, villages, route of travel by Ch. Wiener in department of Ancachs, northern Peru. Com., phy. 75 mm = 1000 m. 16.5 x 15.7.  
Guillaume, 1894, f.p. 152.

715. GEOLOGIC SKETCH MAP AND SECTION, ANTABAMBA REGION. Geologic section of bedded strata cut by Antabamba River, southeastern Peru. 7.1 x 5.7.  
Bowman, 1916, p. 245.

716. PLANO DE LA LINEA ENTRE AREQUIPA Y PUNO, Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, ca. 1896. Route of proposed line of Intercontinental Railway between Arequipa and Puno, southern Peru. Com., phy. Col., mntd. 4 7/16 in. = 90,000 ft. 38.5 x 87.8. Inset: Profile of route. Hor. 1 1/4 in. = 10 mi., ver. 3 11/16 in. = 6,000 ft. 15.8 x 77.5. 3 photostatic copies of section between Cabañillas and Puno. 2 copies (1 mntd.), 27.9 x 16.7; 1 copy, 27.7 x 22.4.

717. FERRO CARRILES DEL SUR DEL PERU. PLANO Y PERFIL DE LA LINEA ENTRE AREQUIPA Y PUNO. Plan and profile of railway between Arequipa and Puno, via Vincocaya and Juliaca, southern Peru. Com., phy. 0.002 m = 1 km. 42.5 x 69. On verso: Ferro Carriles del Sur del Peru. Plano y Perfil de la Linea Entre Mollendo y Arequipa. Plan and profile of railway between Mollendo and Arequipa. Com., phy. 0.005 m = 1 km. 42.5 x 69.

718. AYAHUAYCCO QUEBRADA NEAR CUZCO, PERU, Kai Hendriksen, ca. 1911. Yale Peruvian Expedition, 1911. Sketch map of the vicinity of Cruzco, southern Peru, showing the relation of the Ayahuaycco Quebrada to the well-known ruins in the neighborhood. Arch., phy. 1 1/4 in. = 1,000 ft. 18.9 x 11.7.  
Bingham, 1912, f.p. 304.

719. THE PORT OF CALLAO, J. Mynde, Sc., ca. 1772. The port of Callao and city of Lima, roads. Com., phy. Sha. 1 3/16 in. = 400 toises. 10.3 x 17.5.  
Ulloa, 1772, v. 2, f.p. 30.

720. MAPA REMITIDO POR FRAY JUAN DE OJEDA AL VIRREY CONDE DE CASTELLAR SOBRE CONVERSIONES DE CARABAYA, 1677. Original in the Archivo de Indias, Sevilla. Map which Fray Juan de Ojeda sent to Conde

de Castellar illustrating religious conversions in the lowland at the river junctions in the State of Carabaya, Peru. Location of churches and missions founded among the Indians. Hist., phy., relig. Col. 20 x 27.9.

Saavedra, 1906, v. 2, f.p. 62.

721. MAP OF THE CARAVAYA VALLEY, Erhard, Engr., ca. 1894. 12° to 14° latitudes S. and 69°40' to 71° longitudes W. of Greenwich. Forests, towns; topography of Caravaya Valley, southeastern Peru. Econ., phy. 16 x 23.3.

Guillaume, 1894, f.p. 168.

722. IRRIGATED AND IRRIGABLE LAND OF THE COAST BELT OF PERU. 03° to 18° latitudes S. and 70° to 82° longitudes W. of Greenwich. Crest of Maritime Cordillera; desert plains; irrigated and irrigable land; limit between mountain zone of annual rains and coastal zone of rains at intervals of several years. Econ., meteor., phy. 1 in. = 170 mi. 15.8 x 11.8.

Bowman, 1916, p. 113.

723. REGIONAL DIAGRAM OF THE EAST ANDES (HERE THE CORDILLERA VILCAPAMPA) AND THE ADJACENT TROPICAL PLAINS. Topography of Eastern Andes and Amazon Basin, location of rubber plantations and stations. Com., econ., phy. 8.8 x 11.8.

Bowman, 1916, p. 22.

724. GLACIAL SCULPTURE IN THE HEART OF THE CORDILLERA VILCAPAMPA. In the vicinity of Arma, 13°15' latitude S. Com., Phy. Sha. 1 1/16 in. = 2 mi. 10 x 6.4.

Bowman, 1916, p. 212.

725. GLACIAL FEATURES ON THE EASTERN SLOPES OF THE CORDILLERA VILCAPAMPA. In the vicinity of Chucuito Pass, 13°10' latitude S., between the Arma and Vilcabamba Valley. Com., phy. Sha. 1 3/16 in. = 2 mi. 7.8 x 6.4.

Bowman, 1916, p. 210.

726. COMPOSITE GEOLOGIC SECTION ON THE NORTHEASTERN BORDER OF THE CORDILLERA VILCAPAMPA, IN THE VICINITY OF PAMPACONAS, TO SHOW THE DEFORMATIVE EFFECTS OF THE GRANITE INTRUSION. Granite, Porphyry and Sandstone strata of Cordillera Vilcapampa, Andes of southern Peru in the vicinity of the Pampaconas River. Phy. 2.6 x 11.9.

Bowman, 1916, p. 215.

727. GEOLOGIC SKETCH MAP AND CROSS-SECTION IN THE COTAHUASI CANYON AT COTAHUASI. 2 sections of Cotahuasi Canyon, southeastern Peru at: 1. Cotahuasi. 2. Taurisma, above Cotahuasi. Phy. 4 x 5.7.

Bowman, 1916, pp. 247-248.

728. CUZCO AND ENVIRONS, Kai Hendriksen, ca. 1911. Yale Peruvian Expedition 1911. Surrounding territory of Cuzco, railways, roads. Com., phy. Sha. 1 1/2 in. = 2,000 ft. 17.8 x 17.

Bingham, 1912, f.p. 297.

729. CROQUIS DEL CUZCO. Plan of five Military Districts of Cuzco, location of railway station. Mil. Col., ms. 95.8 x 101.5.

730. A PLAN OF CUZCO-ANCIENT AND MODERN, R. Zárate, Cuzco, 1920. Plan No. 1. Ancient buildings and streets from the English original published in London, 1555. Ancient and modern Cuzco compared. Com., phy. Col. 2 5/16 in. = 2,000 ft. 18 x 20.9.  
Zarate, 1921, f.p. 8.

731. [CUZCO], R. Zárate, ca. 1921. Plan No. 2. Modern Cuzco. Buildings of interest to the traveler, highways, railways, rivers. Arch., com., phy. Sha. 3.6 cm = 300 m. 23.8 x 28.5.  
Zarate, 1921, f.p. 8.

732. PLANO DEL CONVENTO DE STO. DOMINGO DEL CUZCO, R. Zárate, Lima, 1921. Plan No. 3. Outline of the detailed plan of the convent of Sto. Domingo in the City of Cuzco, southern Peru. Com., phy. 3 mm = 1 m. 17.6 x 23.2.  
Zarate, 1921, f.p. 80.

733. NUEVO HOSPITAL DEL CUZCO. General plan of the location of new hospital at Cuzco. Plan. Col., mntd., ms. 1: 500. 62.5 x 58.1.

734. DEPARTAMENTO DEL CUZCO. 11° to 15°20' latitudes S. and 73° to 76° longitudes W. of Greenwich. Cities and towns, railway of the provinces of the Department of Cuzco, southwestern Peru. Com., pol. Col. ms. 1: 500000. 37.2 x 31.

735. MAPA DE LA AUDIENCIA E INTENDENCIA DEL CUZCO EN 1787, Eduardo Ydriagues, 1906. 11° to 17° latitudes S. and 70° to 73° longitudes W. of Paris. The State of Cuzco, with its political divisions, and vicinity, cities and towns. Phy., pol. Sha. 32.5 x 42.9. 3 photostatic copies of section, 11°30' to 17° latitudes S. and 70° to 74° longitudes W. of Paris. 27 x 21.

Saavedra, 1906, v. 1, f.p. 162.

736. PLANO DE LA INTENDENCIA DEL CUZCO. Andrés Baleato, 1792. Made by order of Viceroy Fray Francisco Gil y Lemos. Original in the Depósito Hidrográfico, Madrid. 11°35' to 18° latitudes S. and 62 to 68°20' longitudes W. of Cadiz. Capitals, towns and villages, locations of conversions, villages of infidel Indians, mining centers, roads. Com., econ., phy., pol., relig. Sha. 45.6 x 48.5.

Saavedra, 1906, v. 1, f.p. 154.

737. INTEND[ENCI]A G[ENERA]L DEL CUZCO, Pablo José Oricayn, 1786. The State of Cuzco, southern Peru, with its political divisions in accordance with the best informants of its Capital, added to and corrected by Pablo José Oricayn. Principal cities and towns. Phy., pol. Col. 25 x 35.9.

Saavedra, 1906, v. 1, f.p. 152.

738. PLANO DE OBISPADO DEL CUZCO, José Ramos de Figueroa, 1787. Sent by José Ramos de Figueroa to the Consejo de Indias. Copy of the original in the Archivo General de Indias, Sevilla. Diocese of the

Bishopric of Cuzco. Location of churches and missions, roads. Com., hist., phy., pol., relig. Col., sha. 51 x 39.3.  
Saavedra, 1906, v. 1, f.p. 140.

739. EL COLLAO, Pablo José Oricayn, 1780. Sent to the Consejo de Indias by Governor Benito de la Mata Linares. Copy of old Spanish map of the provinces of Azangaro, Carabata, and Lampa in the Curate of Collao, southern Peru. Hist., phy., pol., relig. Col., sha. 24.5 x 34.8.  
Saavedra, 1906, v. 1, insert pp. 152-153.

740. PLAN OF RUINS AT ESPIRITU PAMPA. Inca ruins at Espiritu Pampa, province of Vilcapampa, Peru. Arch. 1 1/8 in. = 50 ft. 10.5 x 10.5.

Bingham, 1912, p. 57.

741. MAPA ORIGINAL DE LA INTENDENCIA DE GUAMANGA EN EL PERU, 1808. Made by order of Demetrio O'Higgins. Original in the Archivo de Indias, Sevilla. 12° to 15°55' latitudes S. and 66°30' to 69°35' longitudes W. of Cadiz. From astronomical observations and is according to the general demarcation in the land in 1803 and 1804. The first map methodically made in South America. Capitals, towns and villages, sugar and wheat estates, highways, principal mining products. Com., econ., phy., pol. Col. 45 x 34.2.

Saavedra, 1906, v. 2, f.p. 36.

742. PLAN DEL CURSO DE LOS RIOS HUALLAGA Y UCAYALI Y DE LA PAMPA DEL SACRAMENTO, Manuel Sobreviela, 1790. Added to and corrected by Amadeo Chaumette Des Fosses, 1830. Lithographed by A. Hoen and Co., Baltimore, 1854. 04° to 13° latitudes S. and 299°30' to 305°30' longitudes E. of Tenerife. Cities, towns, and villages, course of Huallaga and Ucayali Rivers and tributaries, distribution of Indians, location of Pampa del Sacramento, roads. Com., ethnog., phy., pol. 6.6 cm = 30 le. 39.1 x 27.4.

Herndon and Gibbon, 1854, atlas.

743. PLAN DEL CURSO DE LOS RIOS HUALLAGA Y UCAYALI Y DE LA PAMPA DEL SACRAMENTO, Manuel Sobreviela, La Sociedad de Amantes del Pais de Lima, 1791. 04° to 13° latitudes S. and 299°30' to 305°30' longitudes E. of Tenerife. Cities, towns, and villages, course of Huallaga and Ucayali Rivers and tributaries, distribution of Indians, location of Pampa del Sacramento, roads. Com., ethnog., phy., pol. 6.8 cm = 30 le. 38.5 x 27.5.

Raimondi, v. 2, f.p. 418.

744. PLAN DEL CURSO DE LOS RIOS HUALLAGA Y UCAYALI Y DE LA PAMPA DEL SACRAMENTO, Manuel Sobreviela, La Sociedad de Amantes del Pais de Lima, 1791. Copy of original in the Archivo General de Indias. 04° to 13° latitudes S. and 299°30' to 305°30' longitudes E. of Tenerife. Cities, towns, and villages, course of Huallaga and Ucayali Rivers and tributaries, distribution of Indians, location of Pampa del Sacramento, roads. Com., ethnog., phy., pol. 6.5 cm = 30 le. 37.4 x 26.5.

Saavedra, 1906, v. 2, f.p. 206.

745. PLAN DE LAS CONVER [SIONE]S HUANTA, 1788. Copy of original in the Archivo General de Indias, Sevilla.  $10^{\circ}30'$  to  $15^{\circ}$  latitudes S. and  $299^{\circ}$  to  $306^{\circ}$  longitudes E. of Tenerife. Principal cities and towns. Hist., relig. Col. 3.5 cm = 20 le. 17 x 26.7.  
Saavedra, 1906, f.p. 266.

746. IRRIGATED AND IRRIGABLE LAND IN THE ICA VALLEY OF THE COSTAL DESERT OF PERU. From Bol. de Minas del Peru, 1906, no. 37, p. 82. Co-ordinates of Ica:  $14^{\circ}$  latitudes S. and  $75^{\circ}30'$  longitudes W. of Greenwich. Irrigated and irrigable land along the Ica River, railway from Ica to Pisco. Com., econ. 1.8 cm = 10 km. 9.9 x 5.9.  
Bowman, 1916, p. 118.

747. CITY OF LIMA. Plat of the city of Lima. Com. 3 1/8 in. = 1,000 yds. 43.7 x 32.8. 2 insets: 1. Lima and Environs. 6.4 x 13.2. 2. South America. Steamer distances to important ports. Com., pol. 9.9 x 7.1.  
U. S. Navy department. Bureau of navigation, 1920, back.

748. PLAN OF LIMA, J. Mynde, Sc., ca. 1772. The city of Lima in the Rimac Valley, southwestern Peru. Com., phy. Sha. 9/16 in. = 200 toises. 9.6 x 17.5.  
Ulloa, 1772, v. 2, f.p. 30.

749. MAP OF LIMA, PERU, SHOWING THE LOCATION OF THE RUINS, ABOUT 23 MILES DISTANT.  $12^{\circ}03'05''$  latitudes S. and  $77^{\circ}02'39''$  longitudes W. of Greenwich. Location of the dead city of Cajamarquilla near Lima, railways, roads, trail. Arch., com., pol. 12.5 x 11.2.  
Currier, 1912, p. 302.

750. THE PROJECTED CANAL TO CONVEY WATER FROM THE ATLANTIC SLOPE TO THE PACIFIC SLOPE OF THE MARITIME CORDILLERA. From Boletin de Minas del Peru, 1906, no. 37, p. 84. Co-ordinates of Choclococha,  $13^{\circ}15'$  latitudes S. and  $74^{\circ}50'$  longitudes W. of Greenwich. Projected canal from Lake Choclococha to the source of River Ica. Sketch. 1.3 cm = 5 km. 9.7 x 5.7.  
Bowman, 1916, p. 118.

751. PERU, The London Geographical Institute, George Philip and Son, London, ca. 1910.  $01^{\circ}$  to  $20^{\circ}$  latitudes S. and  $68^{\circ}$  to  $82^{\circ}$  longitudes W. of Greenwich. Principal cities and towns, steamer routes (distances in nautical miles), submarine cables. Com., phy., pol. Col., sha. 1 3/8 in. = 200 mi. 24.3 x 18.6.  
Domville - Fife, 1910, f.p. 160.

752. [PERU]. 4 maps of uniform size and scale showing: 1. The three chief topographic regions of Peru. 2. The wind belts of Peru and ocean currents of adjacent waters. 3. The climatic belts of Peru. 4. Belts of vegetation in Peru. Econ., hydro., meteor., phy., pol. 9/16 in. = 250 mi. 7.4 x 5.7.  
Bowman, 1916, p. 123.

753. EL PERU EN 1913, Camilo Vallejos Z., Carlos Fabbri, Lima, Peru, 1913. Made by the Sociedad Geografica de Lima and ordered to be published

for free distribution in commemoration of its 25th anniversary, by the Society's founder, Escmo. Sr. Guillermo E. Billighurst, President of the Republic.  $02^{\circ}$  N. to  $20^{\circ}25'$  S. latitudes and  $66^{\circ}$  to  $82^{\circ}$  longitudes W. of Greenwich. Capitals, railways, rivers. Com., phy., pol. Col., mntd. 1: 3,000,000. 84.4 x 58.7.

754. MAP OF PERU, H. Guillaume, Wyman and Sons, Lith., London, 1888.  $02^{\circ}$  to  $18^{\circ}$  latitudes S. and  $60^{\circ}$  to  $80^{\circ}$  longitudes W. of Greenwich. Capitals, cities and towns; distribution of forests, Indians, mines; railways in operation and projected; river depth and width. Com., econ., ethnog., hydro., phy., pol. Sha. 45.4 x 59.1.  
Guillaume, 1894, front.

755. MAP OF PERU, R. E. Baluarte, The London Geographical Institute, London, 1903. Published by D. E. Larrabure y Unanue, Minister of Foreign Affairs, Lima; issued by Eduardo Higginson, Consul of Peru at Southampton.  $02^{\circ}$  N. to  $21^{\circ}$  S. latitudes and  $65^{\circ}$  to  $84^{\circ}$  longitudes W. of Paris. Capitals, cities, havens, major and minor ports, towns; petroleum deposits; distribution of Indians, forests; railways in operation and projected, roads and telegraphs, rapids and falls, limits of steam navigation, steamer routes. Com., econ., ethnog., phy., pol. Col., mntd. 1: 3,000,000. 95.7 x 75.9. Inset: England and Wales on same scale. 22.2 x 18.2.

756. MAP OF PERU, SHOWING THE CORDILLERAS OF THE ANDES.  $02^{\circ}$  N. and  $20^{\circ}$  S. latitudes and  $65^{\circ}$  to  $85^{\circ}$  longitudes W. of Greenwich. Cities and towns, limit between coast and sierra. Phy., pol. 19.1 x 18.5.  
Adams, 1909, f.p. 430.

757. MAPA DEL PERÚ, Camilo Vallejos Z., Carlos Fabbri, Lima, Peru, 1906.  $02^{\circ}$  N. to  $20^{\circ}$  S. latitudes and  $62^{\circ}$  to  $82^{\circ}$  longitudes W. of Greenwich. Departmental and provincial capitals, cities and towns; major and minor ports; highways, highways under construction, mule roads; limit of steam navigation; stretches of rivers navigable by steam in dry and wet seasons; railways in operation, under construction and projected. Com., hydro., phy., pol. Col. 1 mm = 4 km. 63.8 x 47.4.  
Pesce, 1906, back.

758. MAPA PARA LA HISTORIA DE LA GEOGRAFIA DEL PERU, HASTA EL AÑO 1553, A. Raimondi, V. Ravillon, Engr., Lima, 1875.  $00^{\circ}$  to  $23^{\circ}$  latitudes S. and  $69^{\circ}$  to  $85^{\circ}$  longitudes W. of Greenwich. Ancient and modern capitals of Peru, cities and towns (dates of founding), distribution of Indian tribes, ancient and modern highways, rivers. Com., ethnog., hist., phy., pol. Sha. 65 x 45.  
Raimondi, 1876, v. 2, front.

759. MINERALOGICAL MAP OF PERU, Minister of Foreign Affairs, 1903.  $02^{\circ}30'$  N. to  $22^{\circ}30'$  S. latitudes and  $65^{\circ}$  to  $85^{\circ}$  longitudes W. of Greenwich. Cities and towns, location of minerals, railways, rivers of Peru according to a publication of the Minister of Foreign Affairs, 1903. Com., econ., pol. 15.8 x 11.  
Collins, 1904, p. 645.



760. [CENTRAL WESTERN PERU], Intercontinental Railway Commission, A. Hoen and Co., Lith., Baltimore, 1898. From Intercontinental Railway Survey Map IV, Ecuador and Peru with Parts of Colombia, Brasil, and Bolivia. 09° to 13° latitudes S. and 74° to 78° longitudes W. of Greenwich. Railways in operation and proposed. Com., phy. Pho. 26.8 x 20.4. 2 additional copies on file.

761. MAP OF SOUTHERN PERU, Edward Weller, John Murray, London, 1874. For the Journal of the Royal Geographical Society to accompany Mr. Markham's Paper. 13° to 19° latitudes S. and 67° to 75° longitudes W. of Greenwich. Cities and towns, railways. Com., phy. Col., mntd. 1 11/16 in. = 100 mi. 18.3 x 25. Inset: Section of Railway from Arequipa to Puno. 3.8 x 13.5.

762. SKETCH MAP OF SOUTHERN PERU, A. H. Bumstead, ca. 1916. 12° to 17° latitudes S. and 68° to 72° longitudes W. of Greenwich. That part of Peru in which the National Geographic Society-Yale-Peruvian Expeditions were particularly interested. Route of Expedition in 1915, from Mollendo to Cuzco, railways. Com., phy., pol. Sha. 1 3/8 in. = 100 mi. 11.3 x 13.9.

Bingham, 1916, p. 435.

763. PLAN OF THE CENTRAL ROUTE OF PERU, Guggenheimer, Weil and Co., Lith., Baltimore. 03° to 13° latitudes S. and 74° to 81° longitudes W. of Greenwich. Railway from Callao to Crayo, bridle-path from Oroyo to Rio Chivis, near Pto. Bermudez. Com., phy. 20.6 x 15.4.

Peru. Ministerio de agricultura y trabajo público, n.d., insert pp. 4-5.

764. PÉROU CROQUIS DE LA VOIE CENTRALE, M. Badiola and Co., Lith., ca. 1902. 03° to 12° latitudes S. and 74° to 81° longitudes W. of Greenwich. Navigation on rivers, railways, roads. Com., phy. Col. 20.6 x 15.5.

Peru. Ministerio de agricultura y trabajo público, [1902], f.p. 20.

765. THE OIL FIELDS OF PERU. 03° to 06° latitudes S. and 80° to 82° longitudes W. of Greenwich. Cities and towns, location of oil wells, railways. Com., econ., phy., pol. 1 3/16 in. = 20 mi. 21.1 x 16.4. Inset: Peru. 00° to 20° latitudes S. and 68° to 85° longitudes W. of Greenwich. Location of section covered by main map. 7/16 in. = 200 mi. 5.5 x 5.2.

Standard oil company, 1921, p. 8.

766. THE RAILWAYS OF PERU, Stanford's Geographical Establishments, London, ca. 1885. 08° to 18° latitudes S. and 68° to 78° longitudes W. of Greenwich. Cities and towns, railways, submarine telegraph cables. Com., phy., pol. Col. 1 1/4 in. = 100 mi. 16.6 x 24.3.

Bates, 1885, f.p. 361.

767. PLANO GENERAL DEL REYNO DEL PERÚ EN LA AMERICA MERIDIONAL, Andrés Baleato, 1796. By order of Viceroy Fray Francisco Gil y Lemos. Copy of original in the Archivo de Indias, Madrid. 00° to 26°30' latitudes S. and 61° to 75°30' longitudes W. of Cadiz. Capitals, cities, missions, and towns, mining centers, gold and silver deposits, highways

and trails. Com., econ., phy., pol., relig. 28.2 x 51. 3 photostatic copies of section, 04° to 18°30' latitudes S. and 61° to 72°30' longitudes W. of Cadiz. 27 x 20.5.

Saavedra, 1906, v. 2, f.p. 38.

768. HYDROLOGIC MAP OF THE SOUTHERN DIVISION OF THE PACIFIC SLOPE OF PERU. DEPARTMENTS OF AREQUIPA, MOQUEGUA, AND TACNA, G. R. Pierce, 1909. Based on Raimondi's Map. From George I. Adams, An Outline Review of the Geology of Peru, Smithsonian Report for 1908. 14°40' to 18° latitudes S. and 70° to 75° longitudes W. of Greenwich. Cities and towns, hills and mountains, irrigated lands, plains, railways, rivers. Com., phy., pol. Mntd., sha. 18.4 x 25.

769. HYDROLOGIC MAP OF THE NORTH CENTRAL DIVISION OF THE PACIFIC SLOPE OF PERU. DEPARTMENTS OF LIBERTAD AND ANCACHS, Y. J. Kilgore, 1909. Based on Raimondi's Map. From George I. Adams, An Outline Review of the Geology of Peru, Smithsonian Report for 1908. 07° to 10°40' latitudes S. and 76°40' to 80° longitudes W. of Greenwich. Cities and towns, hills and mountains, irrigated lands, plains, railways, rivers. Com., phy., pol. Mntd., sha. 2.5 cm = 50 km. 18.6 x 20.2.

770. HYDROLOGIC MAP OF THE SOUTH CENTRAL DIVISION OF THE PACIFIC SLOPE OF PERU. DEPARTMENTS OF LIMA AND ICA, G. R. Pierce, 1909. After Raimondi's Map. From George I. Adams, An Outline Review of the Geology of Peru, Smithsonian Report for 1908. 10° to 15° latitudes S. and 74° to 78° longitudes W. of Greenwich. Cities and towns, hills and mountains, irrigated lands, plains, railways, rivers. Com., phy., pol. Mntd., sha. 25.7 x 18.9.

771. HYDROLOGIC MAP OF THE NORTHERN DIVISION OF THE PACIFIC SLOPE OF PERU. DEPARTMENTS OF TUMBES, PIURA, AND LAMBAYEQUE, Y. J. Kilgore, 1909. Based on Raimondi's Map. From George I. Adams, An Outline Review of the Geology of Peru, Smithsonian Report for 1908. 03° to 07° latitudes S. and 78° to 82° longitudes W. of Greenwich. Cities and towns, deserts, hills and mountains, irrigated lands, plains, railways, rivers. Com., phy., pol. Mntd., sha. 2.6 cm = 50 km. 23 x 18.6.

772. OUTLINE SKETCH SHOWING THE PRINCIPAL ROCK BELTS OF PERU ALONG THE SEVENTY-THIRD MERIDIAN. 12° to 17° latitudes S. and 72° to 73° longitudes W. of Greenwich. Geologic formations and strata of the principal rock belts of Peru. Sketch. Geol. 1 in. = 50 mi. 18.8 x 5.3. Bowman, 1916, p. 235.

773. PLAN DE LAS MONTANAS, Y FRONTERAS DE LA GENTILIDAD, EN LOS CONFINES DEL VIRREINATO DEL PERU, Fray Manuel Sobreviela, Lima, 1790. Dedicated to the Viceroy Croix. Original in the Archivo General de Indias, Sevilla. 06°30' to 13°15' latitudes S. and 299°30' to 303°15' longitudes E. of Ferro. Defining the boundary between the converted and infidel Indians in the district governed by the Viceroy in Peru from the Bishopric of Guamanga to Truxillo. Cities and towns, roads. Com., hist., phy., pol., relig. Col. 4.3 cm = 40 le. 34.9 x 51. Saavedra, 1906, v. 2, f.p. 288.

774. ROUTE MAP OF THE PERUVIAN EXPEDITION OF 1915, A. H. Bumstead, ca. 1916. Route taken by the expedition under the auspices of the National Geographic Society and Yale University.  $12^{\circ}30'$  to  $13^{\circ}35'$  latitudes S. and  $71^{\circ}50'$  to  $73^{\circ}30'$  longitudes W. of Greenwich. Regions where Quichua and Machiganga Indians were measured. Points located by astronomical observations, rivers, ruins, towns. Arch., com., ethnog., ethnol., phy.  $1\frac{3}{4}$  in. = 20 mi.  $18 \times 25.4$ . Inset: Relative location of Expedition in Peru.  $4 \times 3.6$ .

Ferris, 1921, front.

775. ROUTE MAP OF THE PERUVIAN EXPEDITION OF 1915, UNDER THE AUSPICES OF THE NATIONAL GEOGRAPHIC SOCIETY AND YALE UNIVERSITY, A. H. Bumstead, ca. 1916.  $12^{\circ}$  to  $13^{\circ}$  latitudes S. and  $72^{\circ}$  to  $74^{\circ}$  longitudes W. of Greenwich. Route followed by the National Geographic Society and Yale University in their work of exploring and mapping that section of the highland of Peru which has achu Picchu for its center. Com., phy. 2 in. = 20 mi.  $13.7 \times 19$ . Inset: Peru, location of area covered by main map.  $3.1 \times 2.8$ .

Bingham, 1916, p. 434.

776. YALE PERUVIAN EXPEDITION 1911.  $11^{\circ}$  to  $18^{\circ}$  latitudes S. and  $68^{\circ}$  to  $78^{\circ}$  longitudes W. of Greenwich. Cities and towns, railways, route of Yale Peruvian Expedition of 1911 from Camaná to Province of Vilcapampa, Peru. Com.  $\frac{3}{4}$  in. = 100 mi.  $9 \times 13.5$ . Inset: South America, region traversed by Expedition.  $3.8 \times 2.7$ .

Bingham, 1912, f.p. 6.

777. THE YALE PERUVIAN EXPEDITION OF 1911, Isiah Bowman and Kai Hendriksen, The Topographic Engraving Co., Washington, ca. 1911. Edition of 1916. 8 maps showing route of the expedition. Unless otherwise stated: Com., phy. 1:125,000. Contour interval 200 ft.  $42.2 \times 43$ . I. Camaná Quadrangle.  $16^{\circ}20'$  to  $16^{\circ}50'$  latitudes S. and the  $70^{\circ}25'$  to  $70^{\circ}50'$  longitudes W. of Greenwich. F.p. 114. II. Aplao Quadrangle,  $15^{\circ}50'$  to  $16^{\circ}20'$  latitudes S. and  $72^{\circ}25'$  to  $72^{\circ}50'$  longitudes W. of Greenwich. F.P. 120. III. Coropuna Quadrangle.  $15^{\circ}20'$  to  $15^{\circ}50'$  latitudes S. and  $72^{\circ}35'$  to  $73^{\circ}$  longitudes W. of Greenwich. F.p. 188. IV. Cotahuasi Quadrangle.  $14^{\circ}50'$  to  $15^{\circ}20'$  latitudes S. and the  $72^{\circ}40'$  to  $73^{\circ}$  longitudes W. of Greenwich. F.p. 192. V. La Cumbre Quadrangle.  $14^{\circ}20'$  to  $14^{\circ}50'$  latitudes S. and  $72^{\circ}40'$  to  $73^{\circ}$  longitudes W. of Greenwich. F.p. 202. VI. Antabamba Quadrangle.  $13^{\circ}50'$  to  $14^{\circ}20'$  latitudes S. and  $72^{\circ}40'$  to  $73^{\circ}$  longitudes W. of Greenwich. F.p. 282. VII. Lambrama Quadrangle.  $13^{\circ}20'$  to  $13^{\circ}50'$  latitudes S. and  $72^{\circ}40'$  to  $73^{\circ}$  longitudes W. of Greenwich. F.p. 304. VIII. Topographic map of the Andes between Abancay and the Pacific Coast at Camaná. Compiled from the seven accompanying topographic sheets.  $13^{\circ}30'$  to  $16^{\circ}45'$  latitudes S. and  $72^{\circ}30'$  to  $73^{\circ}$  longitudes W. of Greenwich. F.p. 314. 1:1,000,000. Contour interval 1,000 ft.  $37 \times 8$ .

Bowman, 1916, pp. 114-314.

778. THE PERUVIAN RAILWAY SYSTEMS, ca. 1930. 3 outline maps of Peruvian railways: 1. The Central Coastal Region. Com.  $6.2 \times 4.5$ . 2. The Northern Coastal Region. Com.  $6.2 \times 4.5$ . 3. Connections from the Southern Ports. Com., pol.  $6.1 \times 8.9$ .

Davies, 1930, p. 442.

779. PAUCARTAMBO, Pablo José Oricayn, 1780. Sent by Governor Benito de la Mata Lineres to the Consejo de Indias. Copy of old Spanish map showing political boundaries of the Curate of Paucartambo, Intendencia del Cuzco, southern Peru. Hist., phy., pol. Col., sha. 21.8 x 30.4.

Saavedra, 1906, insert pp. 152-153.

780. PORT ISLAY-PORT MOLLENDO, U. S. Hydrographic Office, Washington, 1890. No. 1183. (Corrected to Feb. 24, 1920). 2 maps: 1. Port Islay. From a British Survey in 1836. 17°01'30" to 16°55'15" latitudes S. and 72°06'45" to 72°08'40" longitudes W. of Greenwich. Plan of port (houses are empty, the people have moved to Mollendo). Hydro., phy. Sha. 4 in. = 1 nau. mi. Soundings in fathoms, elevations in feet. 26.1 x 18.8. 2. Port Mollendo. Chiefly from a Peruvian Survey in 1871. 17° to 17°01'30" latitudes S. and 72°02'45" to 72°03'27" longitudes W. of Greenwich. Plan of port; railway to Arequipa. Com., hydro., phy. Sha. 5 in. = 1000 yds. Soundings in fathoms. 26.1 x 18.6. 3 photostatic copies of Port Mollendo on file. 26.7 x 18.3. Scale applies to original only.

781. MAPA DE LA INTENDENCIA DE PUNO EN 1796, Eduardo Ydiazquez, ca. 1906. 11° to 17°45' latitudes S. and 70° to 74°25' longitudes W. of Paris. Principal cities and towns in the State of Puno, southeastern Peru. Phy., pol. Sha. 33.5 x 22. 3 photostatic copies on file. 27 x 20.5.

Saavedra, 1906, v. 2, f.p. 46.

782. MAP SHOWING LOCALITIES INHABITED BY THE QUICHUA MEASURED, A. H. Bumstead, ca. 1912. 12°45' to 14°40' latitudes S. and 71°15' to 73°30' longitudes W. of Greenwich. Localities inhabited by the Quichua Indians that were measured by the members of the Yale-National Geographic Society Peruvian Expedition in 1912. Ethnog., ethno., pol. 3 1/4 in. = 100 mi. 10.6 x 13.1.

Ferris, 1916, f.p. 59.

783. [QUIQUIJANA TO CUZCO], Intercontinental Railway Commission, A. Hoen and Co., Baltimore, 1892. Section of Intercontinental Railway Survey map of Corps No. 3, Juliaca to Cuzco. Com., phy. Pho. 26.8 x 20.3. 2 additional copies of file.

784. QUISPICANCHI, Pablo José Oricayn, 1780. Sent by Governor Benito de la Mata Lineres to the Consejo de Indias. Copy of old Spanish map showing political boundaries of the Curate of Quispicanchi, Intendencia del Cuzco, southern Peru. Hist., phy., pol. Co., sha. 22.5 x 30.4.

Saavedra, 1906, v. 1, insert pp. 152-153.

785. GENERAL PLAN OF THE RUINS OF ROSASPATA OR VITCOS, E. L. Troxell, ca. 1912. Drawn from measurements and photographs taken August 8 and 9, 1911 by Professor Hiram Bingham, Director of the Yale Peruvian Expedition. Ruins of Vitcos in the Province of Vilcapampa, Peru. Arch., phy. 1 1/8 in. = 100 ft. 11.8 x 10.2.

Bingham, 1912, p. 49.

786. CROQUIS DE LA VOIE CENTRALE SECTION DE SN. LUIS A PT. BER-  
MUDES, M. Badiola and Co., Lith., ca. 1902. Rivers, roads and mule  
trails, territory open to colonization, Department of Loreto, northern  
Peru. Com., phy. Col. 1: 800,000. 16.9 x 10.6.  
Peru. Ministerio de agricultura y trabajo público, [1902], f.p.  
52.

787. PLAN OF THE RUINS OF THE TEMPLE OF THE SUN AT NUSTA ESPAÑA  
FORMERLY YURAK RUMI IN CHUQUIPALPA NEAR VITCOS, E. L. Troxell, ca. 1911.  
Drawn from measurements and photographs taken August 10, 1911 by Pro-  
fessor Hiram Bingham. Inca ruins near Vitcos, Province of Vilcapampa,  
Peru. Arch. 1 1/8 in. = 40 ft. 10 x 14.  
Bingham, 1912, p. 53.

788. MAPA TOPOGRAFICO DEL OB[IS]P[A]DO DE TRUXILLO DEL PERU, José  
Clemente del Castillo, 1786. 03°30' to 09° latitudes S. and 293° to  
301°30' longitudes E. of Ferro. Churches and missions, Episcopal cities,  
principal cities and towns, roads. Com., hist., phy., pol., relig. Sha.  
15.5 x 23.2.  
Saavedra, 1906, v. 1, f.p. 55.

789. TTAHUANTIN-SUYU OR THE EMPIRE OF THE YNCAS (EXCEPT QUITO AND  
CHILE) IN ITS FOUR GREAT DIVISIONS OF CHINCHA-SUYU, ANTI-SUYU, COLLA-  
SUYU WITH THEIR TRIBES AND AYLLUS OR LINEAGES ALSO THE ROUTES OF THE YNCA  
CONQUERORS, Clements R. Markham, for the Journal of the Royal Geographical  
Society, J. Murray, London, 1873. Dedicated to His Excellency, Don Manuel  
Pardo, President of the Republic of Peru. 04° to 20° latitudes S. and  
63°30' to 82° longitudes W. of Greenwich. Conquests and expansion of the  
tribes over all Peru from their original settlements in the country sur-  
rounding Cuzco, rivers, routes of author and conquerors, towns. Com.,  
ethnog., phy. Col., mntd. 3 1/4 in. = 150 mi. 63.8 x 67.5. Inset:  
An Enlarged Map of the Cradle of the Ynca Race. Cuzco and the Valley of  
the Vilca-Mayu. 9.3 x 17.

790. ROUGH SKETCH CONTOUR MAP OF THE URUBAMBA VALLEY BETWEEN  
ROSALINA AND PONGO DE MAINIQUE, Isaiah Bowman, ca. 1916. 11°55' to  
12°45' latitudes S. and 72°35' to 73°15' longitudes W. of Greenwich.  
Route of Yale Peruvian Expedition in southeastern Peru, topography,  
trails. Com., hydro., phy. 3/4 in. = 5 mi. 13.8 x 11.8. Inset: Lo-  
cation of section covered by main map. 12°40' to 13°45' latitudes S.  
and 71°10' to 73°45' longitudes W. of Greenwich. 4 x 3.5.  
Bowman, 1916, p. 9.

791. GEOLOGIC SKETCH MAP OF THE LOWER URUBAMBA VALLEY. Geologic  
section of Urubamba Valley, southeastern Peru, distribution of basalt,  
granite, porphyry, sandstone, and schist strata. 4.1 x 11.8.  
Bowman, 1916, p. 237.

792. MAP TO SHOW THE RELATION OF GRASSLANDS OF THE DRY LOWER POR-  
TION OF THE URUBAMBA VALLEY TO THE FORESTED LANDS AT HIGHER ELEVATIONS,  
Isaiah Bowman, ca. 1916. Patches and slender tongues of woodland occur  
below the main timber land and patches of grassland above it. Urubamba  
Valley, southeastern Peru. Econ., phy. 1/2 in. = 10 mi. Elevations in  
feet. 6.5 x 6.4.

Bowman, 1916, p. 81.

793. PLANO DE LA REGION DEL VILCANOTA Y DEL CUZCO. Railways in operation and projected, mule trails, rivers, towns. Map in 2 sections. Com. Mntd., pho. 1: 200.000. 24.8 x 30; 24.8 x 29.3. 1 copy (unmounted) on file.

11. Uruguay

794. URUGUAY, The London Geographical Institute, George Philip and Son, London, ca. 1910. 30° to 35° latitudes S. and 53°30' longitudes W. of Greenwich. Cities and towns, highways, lakes and rivers, railways in operation and under construction. Com., pol. 1 1/4 in. = 40 mi. 29.1 x 26.8.

Domville - Fife, 1910, f.p. 208.

795. MAP OF URUGUAY, SHOWING RAILWAYS AND HIGHWAYS RADIATING FROM MONTEVIDEO. Courtesy of La Mañana, Montevideo. Cities and towns, canals and navigable rivers, interdepartmental and national highways, railways in operation, primary lines and extensions. Com., pol. 2.1 cm = 100 km. 12.8 x 11.2.

Reid, 1929, p. 173.

796. URUGUAYAN RAILWAYS AND THEIR CONNECTIONS. The Northern system connects at the northern frontier with a line to Santos and Rio de Janeiro; North-western system, skirting the Argentine bank; North-eastern system taps paralleled with lines on the Argentine bank; North-eastern system taps the northeastern half of the country; the chief State railway follows approximately the line of the coast eastward from Montevideo to Maldonado, San Carlos, and Rocha. Com., pol. 12.6 x 8.9.

Davies, 1930, p. 486.

797. THE TRANS-URUGUAYAN RAILWAY FROM COLONIA TO SAN LUIS, H.M.R., Pan American Union, Washington, ca. 1911. An additional link in the proposed Pan American Transcontinental Railway. Line under construction between Colonia and San Luis, Uruguay. Outl. Com. 11 x 11.

Richling, 1911, p. 584.

12. Venezuela

798. DELTA OF THE ORINOCO. The delta of the Orinoco River and vicinity, northeastern Venezuela. Com., phy., pol. 1 1/4 in. = 100 mi. 16.9 x 11.

Reid, 1929, p. 151.

799. VENEZUELA, NORTH. North C-D, 19-20. Preliminary edition, subject to correction. 08° to 16° latitudes N. and 59° to 72° longitudes W. of Greenwich. Cities and towns, railways, roads. Com., pol. Mntd. 46.2 x 73.5.

800. MAPA ECOLÓGICO DE VENEZUELA QUE DEMUESTRA LAS ZONAS NATURALES, LOS CULTIVOS, LAS VÍAS DE COMUNICACION Y LOS PRINCIPALES CENTROS MINEROS, ETC., H. Pittier, Litografía del Comercio, Caracas, 1920. 01° to 12°15' latitudes N. and 07°30' E. to 70° W. longitudes from Caracas. Capitals, cities, and towns, asphalt, carbon, copper, gold, iron, and petroleum

deposits, monsoon forests, rain, temperature and xerophilous forests, savannas, land under permanent and periodical cultivation, mineral outcrops, pearl-beds, saltworks, national highways, highways under construction, highways where no railway facilities are available, railways. Com., econ., pol. Col., mntd. 65.5 x 81.9.

801. MAP SHOWING VENEZUELAN HIGHWAYS, ca. 1929. 1st class, all-year highways, 2nd class, interrupted in rainy season, 3rd class, seasonal and unimproved highways. Com., pol. 8.8 x 17.8.  
Reid, 1929, p. 177.

## II. AFRICA

802. AFRICA, C. S. Hammond and Co., New York. 40° N. to 40° S. latitudes and 60° E. to 20° W. longitudes from Greenwich. Colonies and countries of Africa. Capitals, cities and towns. Com., pol. Col. 1 5/8 in. = 1,000 mi. 28 x 20.3. Inset: Cape Verde Is. 10° to 20° latitudes N. and 15° to 30° longitudes W. of Greenwich. 3.6 x 5.1.  
Leyburn, 1931, back.

803. AFRICA, IT'S POLITICAL AND COMMERCIAL ROUTES, U. S. Treasury Department, Bureau of Statistics, Norris Peters Co., Lith., Washington. 40° N. to 40° S. latitudes and 60° E. to 20° W. longitudes from Greenwich. Area and population of countries, railways in operation and proposed, telegraph lines, proposed telegraph lines, steamship routes (distances in nautical miles). Com., phy., pol. Col., mntd. 1 5/8 in. = 600 mi. 49.9 x 37.9. 2 ethnological and ethnographical insets: 1. Languages of Africa. 8.2 x 7.8. 2. Religions of Africa. 8.2 x 7.8.

804. AFRICAN MIGRATIONS, Emery Walker, Sc., Cambridge University Press, Cambridge, ca. 1911. Migration of 31 peoples in Africa. Outl. Ethnol. 1 1/16 in. = 1,000 mi. 12.6 x 12.8.  
Haddon, 1912, map no. 3, back.

805. THE MOERIS BASIN AND WADI FADHI, F. Cope Whitehouse, 1882. 28°40' to 30°20' latitudes N. and 30°45' to 31°45' longitudes E. of Greenwich. That part of Egypt lying to the south of Cairo and west of the Nile. Route of Dr. W. Junkers, 1875. Com., phy. Sha. 1: 100,000. 20.2 x 12.1.  
Whitehouse, 1882, f.p. 85.

806. MAP OF SOUTH WESTERN MOROCCO, Wm. Jno. Turner, London, 1889. Illustrating Mr. Joseph Thomson's Journeys, 1888, compiled from his original surveys collated with the work of other travellers. 30°05' to 32°20' latitudes N. and 06°20' to 10°10' longitudes W. of Greenwich. Routes of explorers. Com., phy. Col. 1 7/8 in. = 30 mi. 25.2 x 36.  
Royal geographical society, 1889, f.p. 64.

## III. Asia

807. ASIA, C. S. Hammond and Co., New York. 00° to 80° latitudes N. and 20° to 50° longitudes E. of Greenwich. Capitals, cities and towns, railways and steamer routes. Com., phy., pol. Col. 1 7/8 in. = 1,000 mi. 28 x 20.3.  
Leyburn, 1931, back.

808. ASIATIC MIGRATIONS, Emery Walker, Sc., Cambridge University Press, Cambridge, ca. 1911. Migrations of 35 peoples in Asia. Outl. Ethnol. 7/8 in. = 1000 mi. 12.3 x 15.9.  
Haddon, 1912, map no. 1, f.p. 124.

IV. EUROPE

809. PLAN OF THE ACROPOLIS OF ATHENS SHOWING THE EXTENT OF RECENT EXCAVATIONS AND THE LEVELS & RELATIVE BEARINGS OF THE PRINCIPAL MONUMENTS WITH THE ADDITIONS AND CORRECTIONS OF MR. F. C. PENROSE IN 1847. Location of buildings; existing pavement; original made ground; smoothed or leveled rock. Arch., phy. Sha. 2 in. = 400 ft. 8.5 x 14.7.  
Cullum, 1882, f.p. 1.

810. VERTEILUNG DES "BRAUMEN" TYPUS IN EUROPA. After J. Deniker. Distribution of the brown race in Europe. Ethnog., ethnol. Sha. 13.5 x 18.4.  
Martin, 1914, p. 414.

811. VERTEILUNG DER MITTLERN KÖRPERGRÖSSE IN EUROPA. After J. Deniker. Distribution of large population in Europe. Ethnog., ethnol. Sha. 13.5 x 18.4.  
Martin, 1914, p. 219.

812. VERTEILUNG DES LANGENBREITENINDEX IN EUROPA. After J. Deniker. Cephalic index, showing the distribution of population with long, broad heads in Europe. Ethnog., ethnol. Sha. 13.5 x 18.4.  
Martin, 1914, p. 675.

813. AVERAGE STATURE, EUROPE. From William Z. Ripley, Races of Europe, D. Appleton and Co., New York, 1899. Irregular transition from the taller population in the north to the shorter in the south. Outl. Ethnog., ethnol. 11.7 x 10.  
Jackson, 1930, insert pp. 80-81.

814. CEPHALIC INDEX /EUROPE/. From William Z. Ripley, Races of Europe, D. Appleton and Co., New York, 1899. Regions with broad heads in Central Europe, tending towards narrow heads in the north and south. Outl. Ethnog., ethnol. 10 x 11.9.  
Jackson, 1930, p. 81.

815. RELATIVE FREQUENCY OF BRUNET TRAITS /EUROPE/. From William Z. Ripley, Races of Europe, D. Appleton and Co., New York, 1899. The gradual progression from the predominantly blond population of northern Europe to the brunette of southern Europe. Outl. Ethnog., ethnol. 12.9 x 10.1.  
Jackson, 1930, insert pp. 80-81.



816. EUROPE, C. S. Hammond and Co., New York 30° to 84° latitudes N. and 70° E. to 30° W. longitudes from Greenwich. Capitals, principal cities and towns, ports of International Concern, railways and steamer routes. Com., phy., pol. 1 7/16 in. = mi. = 500 mi. 28 x 20.3.  
Leyburn, 1931, back.

817. MAP OF EUROPE, SHOWING THE GREAT SHEET OF ICE THAT COVERED THE BRITISH ISLES, SCANDINAVIA, GERMANY, AND HALF OF RUSSIA DURING THE SECOND GLACIAL AGE, A. H. Bumstead, ca 1916, 30° to 84° latitudes N. and 60° E. to 30° W. longitudes from Greenwich. Ice fields and glaciers reached their greatest extension, depressing Europe to such an extent that the Black and Caspian and Aral seas formed one continuous body of water. Outl. Com., phy. 1 7/16 in. = 1000 mi. 11.3 x 14.2.  
Roosevelt, 1916, p. 115.

818. AN OUTLINE MAP OF EUROPE AT A PERIOD WHEN THE BRITISH ISLES AND SCANDINAVIAN PENINSULA WERE A PART OF THE MAINLAND, A. H. Bumstead, ca. 1916. 30° to 80° latitudes N. and 60° E. to 60° W. longitudes from Greenwich. Europe at the period of maximum continental elevation, coastlines widely extended, connecting Africa and Europe affording migration routes for animal and human races. Outl. Com., ethnol., phy. 1 7/16 in. = 1000 mi. 11.3 x 14.2.  
Roosevelt, 1916, p. 113.

819. APPROXIMATE LIMITS OF "NORTHWESTERN EUROPE" ACCORDING TO FORMULA NUMBER XIX, ca. 1924. 30° to 80° latitudes N. and 70° E. to 30° W. longitudes from Greenwich. Map to illustrate immigration chart. Outl., ethnol., pol. 5/8 in. = 50 mi. 7.7 x 10.9.  
U. S. Congress. House. Committee on immigration and naturalization, 1924, p. 1921.

820. WESTERN EUROPE DURING THE THIRD INTER-GLACIAL STAGE, A. H. Bumstead, ca. 1916. 35° to 65° latitudes N. and 20° E. to 20° W. longitudes from Greenwich. Africa, the British Isles, and Iceland connected with the mainland and river channels much extended. Outl. Com., phy. 1 7/16 in. = 400 mi. 12.9 x 10.1.  
Roosevelt, 1916, p. 118.

821. EUROPEAN MIGRATIONS, Emery Walker, Sc., Cambridge University Press, Cambridge, ca. 1911. Migration of 19 peoples in Europe. Outl. Ethnol. 1 in. = 500 mi. 12.8 x 16.3.  
Haddon, 1912, map no. 2, back.

V. JAPAN

822. CEPHALIC INDEX AND STATURE OF THE JAPANESE. 30° to 44° latitudes N. and 128° to 142° longitudes E. of Greenwich. Cephalic index and stature of men. 10 maps: I. Mean Values of Head Length. II. Variability in Head Length. III-IV. Mean Values of Head Breadth. V. Mean Values of Cephalic Index. VI. Variability in Cephalic Index. VII. Mean Values of Stature. VIII. Variability in Stature. IX. Local Differences of Cephalic Index. X. Local Difference of Stature. Outl. Ethnol. Pho. 22.4 x 15.4.  
Matsumura, 1925.

VI. OCEANIA

823. OCEANIA AND THE PACIFIC ON MERCATOR'S PROJECTION, C. S. Hammond and Co., New York. 30° to 40° S. latitudes and 100° E. to 140° W. longitudes from Greenwich. Ocean steamer routes (distances in nautical miles), railways, submarine cables, telegraph lines. Com., phy., pol. Col. 28 x 20.3.  
Leyburn, 1931, back.

824. PART OF THE WESTERN PACIFIC, H. A. Milne, Edwd. Weller, Lith., London, 1886. Illustrating the cruises of Captain Bridges, R.N., 1882-1885. 11° N. to 35° latitudes and 130° E. to 165° W. longitudes from Greenwich. Northeastern coast of Australia, neighboring islands. Outl. Col. 1 3/16 in = 500 mi. 20.9 x 28.  
Royal geographical society, 1886, f.p. 608.

VII. WORLD

825. ENTWICKELUNG DES KARTENBILDES VON AMERIKA I. 6 reduced copies of old maps by early geographers showing various concepts of the relationships of Europe to America and Asia: 1. Martin Behaim, 1492. Hist., phy. 11.4 x 11.8 2. Juan de la Cosa, 1500. Hist. 11 x 10.9. 3. Seb. Münster, 1540. Hist., phy. 8.1 x 10.9. 4. Ortelius, *Americae Nova Descriptio*, 1570. Hist., phy. 8.6 x 10.9. 5. Diogo Ribeiro, 1529. Hist. 16.3 x 7.2. 6. Waldseemüller, 1507. Hist., phy. 16.3 x 7.1.  
Sievers, 1914, insert pp. 14-15.

826. ROUTE CHART /ATLANTIC OCEAN AND GULF OF MEXICO/, U.S. Hydrographic Office, Washington, ca. 1929. 43° N. to 10° S. latitudes and 05° E. to 95° W. longitudes from Greenwich. Illustrating steamer routes, on the Atlantic Ocean and Gulf of Mexico, in H.O. Pub. 129. Not to be used for navigation. Com., hydro. Col. 42.7 x 72.2. Inset: Routes from the West Indies and Virgin Islands to northern coast of South America. 10° to 19° latitudes N. and 59° to 72° longitudes W. of Greenwich. 19.5 x 26.3.  
U.S. Hydrographic office, 1929, f.p. 55.

827. TRACKS OF TROPICAL CYCLONES OF NORTH ATLANTIC, SEPTEMBER 1-15, 1887 to 1924. U. S. Hydrographic Office, Washington, ca. 1929. 10° to 70° latitudes N. and 30° to 100° longitudes W. of Greenwich. Cyclones originating south of the West Indies and traveling through eastern part of the North American continent and the Atlantic Ocean, across southern part of Greenland. Outl. Meteor. 13.2 x 11.

U. S. Hydrographic office, 1929, p. 31.

828. MAP OF ROUTE OF GREAT MIGRATION ASSYRIA TO NEW ZEALAND, London, 1830. Migration of the Maori from Assyria to New Zealand. Outl. Ethnol. 9.8 x 19.2.

Hohepa Te Rake, 1926, f.p. 3.

829. COALING STATIONS OF THE WORLD, Thos. O. Wansleben, U. S. Geological Survey, Washington. Principal ports, primary and secondary coaling stations of the world. Outl. Pol. Mntd. 46.4 x 93.7.

830. CHART SHOWING PROPOSED ELECTRIC AND MAGNETIC STATIONS ABOVE 55° NORTH LATITUDE, ca. 1931. Proposed location of 43 electric and magnetic observatories above 55° north latitude. Meteor. Sha. 12.8 x 12.8. Fleming, 1931, p. 378.

831. MAXIMUM EXPANSION OF ALPINES WITH BRONZE CULTURE -- 3000 1800 B. C. EUROPEAN RACES, Madison Grant. 30° to 65° latitudes N. and 70° E. to 20° W. longitudes from Greenwich. Distribution and migrations of Nordics, Continental Nordics, Alpines, Mediterraneans, Crô-Magnon area, Megaliths, Kurgans; Europe, northern Africa, and western Asia. Outl. Ethnog., ethnol. Col. 1 1/16 in. = 300 mi. 20.4 x 31.5. Grant, 1922, f.p. 266.

832. EXPANSION OF THE PRE-TEUTONIC NORDICS, 1800-100 B.C. EUROPEAN RACES, Madison Grant. 30° to 65° latitudes N. and 70° E. to 20° W. longitudes from Greenwich. Distribution and migrations of Alpines, Mediterraneans, Continental Nordics and Nordics; Crô-Magnon area, Europe, northern Africa, and western Asia. Outl. Ethnog., ethnol. Col. 1 1/16 in. = 300 mi. 20.4 x 31.5. Inset: Asia. 05° to 60° latitudes N. and 20° to 100° longitudes E. of Greenwich. 7/8 in. = 100 mi. 9.1. x 9.7. Grant, 1922, f.p. 268.

833. EXPANSION OF THE TEUTONIC NORDICS AND SLAVIC ALPINES, 100 B.C. - 1100 A. D. EUROPEAN RACES, Madison Grant. 30° to 65° latitudes N. and 70° E. to 20° W. longitudes from Greenwich. Distribution and migrations of Alpines, Mediterraneans, Continental Nordics, Nordics; Crô-Magnon area; Tator invasions, Europe, northern Africa, and western Asia. Outl. Ethnog., ethnol. Col. 7/8 in. = 300 mi. 20.4 x 27.5. Grant, 1922, f.p. 270.

834. PRESENT DISTRIBUTION OF EUROPEAN RACES, Madison Grant. 30° to 65° latitudes N. and 70° E. to 20° W. longitudes from Greenwich. Distribution of Alpines, Mediterraneans, and Nordics; Cro-Magnon area, Europe, northern Africa, and western Asia. Outl. Ethnog., pol. Col. 1 in. = 300 mi. 20.4 x 31.5.  
Grant, 1922, f.p. 272.

835. MAP BY JOHANN RUYSCHE, 1508, Johann Ruysch, 1508. 65° N. to 45° S. latitudes and 180° to 35° E. of Ferro. A reduced copy. Concept of the geographical relationship between South America and Asia. Greenland is connected to Asia. With the exception of what is now Labrador and Newfoundland the North American continent is not shown. Outl. Hist. 6.4 x 9.8.  
Bancroft, 1882, p. 126.

836. MAPA-MUNDI. Countries from which population is emigrating, countries receiving immigrants, steamer routes, transcontinental railways. Relation of Peru to the world. Com., pol., stat. Col. 1: 90,000,000. 26 x 46.1.  
Posce, 1906, f.p. 48.

837. MARTIN BEHAIM'S GLOBE, 1492, Martin Behaim, 1492. Copy of map showing the geographical position of Europe and Asia as they were believed to be prior to the discovery of America. Outl. Hist. 5.8 x 9.7.  
Bancroft, 1882, p. 93.

838. EL MUNDO. SOBRE LA PROYECCION DE MERCATOR, Ackermann and Co., London. Relation of the proposed Tehuantepec Ship Canal to the rest of the world. Outl. Com. Mntd. 36.7 x 50.1.

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841. OUTLINE MAP OF (APPROXIMATE) RELATIVE SAILING DISTANCES VIA THE PANAMA CANAL AND THE STRAITS OF MAGELLAN. SAILING DISTANCES, in nautical miles, to the principal ports of eastern United States, South America and Plymouth, England. Com. 14.7 x 10.9.  
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842. MAP FROM PTOLEMY, 1513. From the Ptolemy, 1513.\* Reduced copy of map showing concept of geographical relationship of western Europe and Africa to North and South America. South America is joined to the main land of Asia. Outl. Hist. 9.1 x 9.7.  
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843. RUSCELLI'S MAP, 1544, Ruscelli, 1544. Reduced copy. Geographical relation of western Europe and northwestern Asia to North America, which is conceived as being joined to Europe by Greenland and a continent called Terra de Baccalaos (Land of Cod). Outl. Hist. 6.5 x 10.  
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847. TRANS-CONTINENTAL ISTHMIAN AND OCEANIC ROUTES OF COMMERCE, ca. 1871. Comparison of commercial route distances via Cape Horn, Derien, Honduras, Nicaragua, Panama, Tehuantepec, Suez, Union Pacific Railroad. Outl. Com. 11 x 17.5. 1 additional copy on file.  
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\* Map is said to have been made by Hylacomylus as early as 1508, but concerning which

there seems to be some uncertainty.

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852. ZENO'S CHARTS, DRAWN ABOUT 1390, the brothers Zeno, ca. 1390. 60° to 75° latitudes N. Reduced copy of map showing what is now Greenland, Scandinavia, Nova Scotia, New England and New Foundland. The first known map which shows any part of America. Outl. Hist. 7 x 9.6.  
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Addendum

659a. [PROFILES OF THE MADEIRA RIVER FROM PORTO VELHO TO GUAJARA-MIRIM], Kuffel & Esser Co., New York. Condensed profiles of the Madeira River between Porto Velho and Guajara-Mirim, Brazil. 5 sheets. Blueprint. 28.3 x 21.3.

Errata

83. Date of map is 1854 instead of 1856.
85. The word, Rio, in the eleventh and sixteenth lines should bear an accent on the letter, i, thus: Río..
131. Title of map should read MAPA COMERCIAL DE GUATEMALA. Insert abbreviation, km., after 50 in scale citation. Add at end of entry: 1 additional copy on file.
177. Scale is: 1: 5000 instead of 1: 50000.
205. Take out note: 1 additional copy of Atlas, 1919-1921, on file.
211. Insert for the purpose of numbering maps: 1. in first line after Three maps: -. 2. in second line after 1906; -. 3. in second line after Mexico.
247. The word, TUNEL, in second line should bear an accent on the letter, U, thus: TUNEL.
- 274-275. The word, MEXICO, in the first line of each entry should bear an accent on the letter, E, thus: MÉXICO.
433. The note in last line should read 4 additional copies instead of 3 additional copies.
435. The word, CACUTCHOUC, in first line is spelled CAOUTCHOUC.
437. Insert in sixth line a comma and the abbreviation, mntd., between Col. and 44.9 x 60.4.
443. The word, DESIDE, in first line is spelled DESDE. Add note at end of entry: 1 additional copy on file.
- 446, 539. Insert note in entry 446 at end of sixth line and in entry 539 after 73.5 in seventh line: Marked by Dr. Hoffman to serve as an index map.
553. Insert the word, POR, in first line after the word VIAJEROS. Longitudes in fourth line should read W. of Paris instead of W. of Greenwich. Add note at end of entry: 1 reduced photostatic copy on file. 40.5 x 46.5. 3 copies of section, 13° to 15° 20' latitudes S. and 73° to 75° longitudes W. of Paris. 25.4 x 20.6. 3 copies of section, 14° 35' to 17° latitudes S. and 70° 40' to 72° 40' longitudes W. of Paris. 2 sections, 26.2 x 26.2; 1 section, 26.2 x 20.6.

578. Take out accent on BOLIVIA in first line.
614. Insert the abbreviation, Pho<sup>v</sup>, in the fourth line between, pol. and l: 500 000.
618. Insert: La Paz, 1919, in first line after Idiaquez.
664. The word PARA appearing twice in first line should bear an accent on the last letter, A, thus: PARA.
669. The same word PARA in second line should be accented similarly. The word, DE, in third line should read DO.
754. Scale is: 1: 1.500000 instead of 1: 500000.
789. Insert the word, CUMTI-SUYU, in second line after the word CHINCHA-SUYU.
800. The word, COMUNICACION, in second line should bear an accent on the last letter, O, and should be spelled, thus: COMUNICACIÓN.
803. Insert the word, DIVISIONS, in the first line after the word POLITICL.

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Page 135. Insert in sixth line after last bracket the footnote symbol,\* .

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