Finding Aid to Coast and Geodetic Survey Special Publications-2

Organized by Functional Area

The following listing of Special Publications of the United States Coast and Geodetic Survey (C&GS) is organized by major topic and sub-topic of the work of the C&GS. For many years the C&GS was a leader in many areas of Cartography, Geodesy, Geophysics, Tidal Studies, and Hydrography. This listing reflects that leadership as well as the willingness, indeed unspoken mission, of the C&GS to share its techniques, innovations, data, and procedures with the larger professional, governmental, and academic communities. The major headings and sub-headings of this listing are:

Cartography
  General
  Projections

Geophysics
  Geomagnetism
  Gravity
  Seismology

Geodesy
  Geodetic Astronomy
  Leveling
  Operations
  Plane Coordinates
  Traverse
  Triangulation

Hydrography
Manuals/Methods/Instructions

Miscellaneous

Tides and Currents

Topography

Each entry within a heading is preceded by a number. This is the identification number of the Special Publication. Each Special Publication has a date associated with it which is the date of publication. This is important because there are often multiple editions of the same publication. To access a publication, proceed to the window and click on the desired publication number.

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Cartography

General

38.  Elements of chart making / by E. Lester Jones.  1916.


205.  Cartography : a review and guide for the construction and use of maps and charts / by Charles H. Deetz.  1943.

Projections

5.  Tables for a polyconic projection of maps : based upon Clarke's reference spheroid of 1866.  2nd ed.  1900.


5.  Tables for a polyconic projection of maps : based upon Clarke's reference spheroid of 1866.  1917.

5.  Tables for a polyconic projection of maps and lengths of terrestrial arcs of meridian and parallels : based upon Clarke's reference spheroid of 1866.  1930.

5. Tables for a polyconic projection of maps and lengths of terrestrial arcs of meridian and parallels: based upon Clarke's reference spheroid of 1866. 6th Edition 1946. (not on line.)

47. The Lambert conformal conic projection with two standard parallels including a comparison of the Lambert projection with the Bonne and polyconic projections / by Charles H. Deetz. 1918.

49. Lambert projection tables with conversion tables: Supplement to the Lambert conformal conic projection with two standard parallels / Prepared for publication by Charles H. Deetz. 1918.

52. Lambert projection tables for the United States / by Oscar S. Adams. 1918.

53. General theory of the Lambert conformal conic projection; cartography, by Oscar S. Adams. 1918.

57. General theory of polyconic projections / by Oscar S. Adams. 1919.

57. General theory of polyconic projections / by Oscar S. Adams. 1934.

60. A study of map projections in general / by Oscar S. Adams. 1919.

67. Latitude developments connected with geodesy and cartography: with tables including a table for Lambert equal-area meridional projection / by Oscar S. Adams. 1921.

67. Latitude developments connected with geodesy and cartography: with tables including a table for Lambert equal-area meridional projection / by Oscar S. Adams. 1949.

68. Elements of map projection with applications to map and chart construction / by Charles H. Deetz and Oscar S. Adams. 1921.

68. Elements of map projection with applications to map and chart construction / by Charles H. Deetz and Oscar S. Adams. Edition: Revised May 1, 1928.

68. Elements of map projection with applications to map and chart construction, by Charles H. Deetz and Oscar S. Adams. 1934.


112. Elliptic functions applied to conformal world maps / by Oscar S. Adams. 1925.

130. Tables for Albers projection / by Oscar S. Adams. 1927.

153. Conformal projection of the sphere within a square / by Oscar S. Adams. 1929.

236. General theory of equivalent projections / by Oscar S. Adams. 1945.


251. Conformal projections in geodesy and cartography / Paul D. Thomas. 1952.

**Geophysics**

**Geomagnetism**


15. Results of magnetic observations made by the United States Coast and Geodetic Survey between July 1, 1911, and December 31, 1912 / by R. L. Faris. 1913.

20. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1913 / R.L. Faris. 1914.

25. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1914 / by Daniel L. Hazard. 1915.

33. Distribution of the magnetic declination in the United States for January 1, 1915 with isogonic chart and secular change tables / by Daniel L. Hazard.


36. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1915 / by Daniel L. Hazard. 1916.
42. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1916 / by Daniel L. Hazard. 1917.

44. United States magnetic tables and magnetic charts for 1915 / by Daniel L. Hazard. 1917.

51. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1917 / by Daniel L. Hazard. 1918. Record is located as having been published in 1903.


87. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1921 / by Daniel L. Hazard. 1922.

89. Horizontal Intensity variometers / by George Hartnell. 1922.


96. Instructions for the compensation of the magnetic compass / by N.H. Heck; with the cooperation of W.E. Parker. 1923.


116. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1924 / by Daniel L. Hazard. 1925.


125. Results of magnetic observations made by the United States Coast and Geodetic Survey in 1925 / by Daniel L. Hazard. 1926.


213. Uses of magnetic stations. 1937.


301. Reversible susceptibility and the induction factor used in geomagnetism / by David G. Knapp. 1953.

**Gravity**


69. Modern methods for measuring the intensity of gravity / by Clarence H. Swick. 1921.

82. The figure of the earth and isostasy from measurements in the United States / by John F. Hayford. 1909.

99. Isostatic investigations and data for gravity stations in the United States established since 1915 / by William Bowie. 1924.

100. Effect of variations in the assumed figure of the earth on the mapping of a large area / by Walter D. Lambert. 1924.

199. Tables for determining the form of the geoid and its indirect effect on gravity, by Walter D. Lambert and Frederic W. Darling. 1936.

204. A determination of the relative values of gravity at Potsdam and Washington / by E.J. Brown. 1936.


**Seismology**

106. Earth movements in California / by William Bowie. 1924.


206. Selection, installation and operation of seismographs / by H.E. McComb. 1936.


254. Principles underlying the interpretation of seismograms / by Frank Neumann. 1951.


Geodesy

Geodetic Astronomy

27. Latitude observations with photographic zenith tube at Gaithersburg, Md. / by Frank E. Ross in cooperation with the International Geodetic Association. 1915.


80. An investigation of the latitude of Ukiah, Calif., and of the motion of the pole / by Walter D. Lambert. 1922.

92. Study of time errors in precise longitude determinations by the U.S. Coast and Geodetic survey / by William Bowie. 1923.


110. Astronomic determinations by United States Coast and Geodetic Survey and other organizations / by Sarah Beall ; Department of Commerce, U.S. Coast and Geodetic Survey. 1925.

171. World longitude determinations by the United States Coast and Geodetic Survey in 1926 / by Clarence H. Swick. 1931.

173. Latitude redeterminations / by Frederic W. Darling. 1931.


**Leveling**


41. Use of mean sea level as the datum for elevations / by E. Lester Jones. 1917.

77. Precise leveling in Texas / by H.G. Avers. 1922.


95. Precise leveling in Georgia / by Henry G. Avers. 1923.

101. Precise trangulation, traverse, and leveling in North Carolina / by Henry G. Avers. 1924.

122. First-order leveling in Oregon / by Henry G. Avers. 1926.

129. Geodetic level and rod, by D. L. Parkhurst, chief, Division of Instruments. 1927.


161. First-order leveling in Hawaii / by Howard S. Rappleye. 1929.
169. First-order leveling in Alaska / by Howard S. Rappleye. 1930.
172. First-order leveling in New Jersey / Howard S. Rappleye. 1931.
175. First and second order triangulation in Oregon <1927 datum> / by Clarence H. Swick. 1932.
176. First-order leveling in Michigan / by Howard S. Rappleye. 1932.
177. Leveling in Oregon / by Howard S. Rappleye. 1932.
185. Leveling in Florida / by Howard S. Rappleye. 1934.
188. Leveling in Arkansas / by Howard S. Rappleye. 1934.
226. Control leveling. 1941.
242. Definitions of terms used in geodetic and other surveys by Hugh C. Mitchell. 1948.
242. Definitions of terms used in geodetic and other surveys. 1949.
Operations


81. Geodetic operations in the United States. 1939.


320. Geodetic operations in the United States and in other areas through international cooperation, January 1, 1939, to December 31, 1953 / Albert J. Hoskinson. 1954.

Plane Coordinates


71. Relation between plane rectangular coordinates and geographic positions / by Walter F. Reynolds. 1921.

71. Relation between plane rectangular coordinates and geographic positions / by Walter F. Reynolds. 1932.
71. Relation between plane rectangular coordinates and geographic positions / by Walter F. Reynolds. 1936.


246. Sines, cosines, and tangents : ten decimal places with ten-second interval, 0° -6°, for plane coordinate computation on Lambert projection. 1949.


253. Plane coordinate projection tables : California (Lambert) 1951.


266. Plane coordinate projection tables, Connecticut (Lambert) 1952.


290. Plane coordinate projection tables, Kentucky. (Lambert) 1953.
292. Plane coordinate projection tables, Maryland. (Lambert) 1953.
295. Plane coordinate intersection tables (2 1/2-minute), Nebraska. 1953.
296. Plane coordinate intersection tables (2 1/2-minute), Florida. 1953.
299. Plane coordinate intersection tables (2 1/2 minute), Minnesota. 1953.
305. Plane coordinate projection tables, Delaware. (Transverse Mercator) 1953.
308. Plane coordinate intersection tables (2 1/2-minute), Wisconsin. 1953.
309. Plane coordinate intersection tables (2 1/2-minute), North Dakota. 1954.
310. Plane coordinate intersection tables (2 1/2 minute), North Carolina. 1954.
311. Plane coordinate intersection tables (2 1/2-minute), Utah. 1954.
312. Plane coordinate intersection tables (2 1/2 minute), South Dakota. 1954.
315. Plane coordinate projection tables, Rhode Island. 1954.
316. Plane coordinate projection tables, New Jersey. 1954.
322. Plane coordinate projection tables, Georgia. 1954.
324. Plane coordinate projection tables, New Mexico. 1954.
344. Plane coordinate intersection tables (2 1/2 minute). New Mexico. 1956.

**Traverse**


79. Precise traverse and triangulation in Indiana / by Charles A. Mourhess and Jasper S. Bilby. 1922.

86. Precise traverse, Racine, Wis., to Vandalia, ILL. / by Charles A. Mourhess and Walter D. Sutcliffe. 1922.

101. Precise triangulation, traverse, and leveling in North Carolina / by Henry G. Avers. 1924.


183. First-order triangulation and traverse in Louisiana (1927 datum) / by O.P. Sutherland. 1934.
192. First and second order triangulation and traverse in North Carolina (1927 datum) / by Oscar S. Adams. 1935.


203. First and second order triangulation and traverse in Minnesota (1927 datum) / by Walter F. Reynolds. 1936.


218. First and second order triangulation and traverse in North Carolina (1927 datum). volume 2 / by Oscar S. Adams. 1940.


**Triangulation**

4. The transcontinental triangulation and the American arc of the parallel / by Chas A. Schott. 1900.

7. The eastern oblique arc of the United States and osculating spheroid / by Chas. A. Schott. 1902.

8. Formulae and tables for the computation of geodetic positions / with a preface by Charles R. Duvall. 1911.


8. Formulas and tables for the computation of geodetic positions. 7th ed. 1929.


16. Triangulation along the west coast of Florida / by Clarence H. Swick. 1913.

17. Triangulation on the coast of Texas, from Sabine Pass to Corpus Christi Bay / by Charles A. Mourhess. 1913.


31. Triangulation along the Columbia River and the coasts of Oregon and northern California / by Charles A. Mourhess. 1915.

43. Triangulation in Georgia / by Clarence H. Swick. 1917.

45. Descriptions of triangulation stations in Georgia / by Clarence H. Swick. 1917.

46. Triangulation in Maine / by Walter F. Reynolds. 1918.

54. Report on the connection of the arcs of primary triangulation along the ninety-eighth meridian in the United States and in Mexico and on triangulation in southern Texas / by William Bowie. 1919.

62. Triangulation in Rhode Island / by Earl Church. 1920.

65. Instructions to light keepers on primary triangulation. 1920.

65. Instructions to lightkeepers on first-order triangulation. 2nd ed. 1926.

65. Instructions to lightkeepers on first-order triangulation / by Carl I. Aslakson. 3rd Ed. 1936.

70. Triangulation in Kansas. 1921.

74. Utah-Washington arc of precise triangulation / by C.V. Hodgson. 1921.

76. Triangulation in Massachusetts, by O.P. Sutherland, mathematician. 1922.

79. Precise traverse and triangulation in Indiana / by Charles A. Mourhess and Jasper S. Bilby. 1922.


88. Precise triangulation along the ninety-eighth meridian, Kansas-Oklahoma boundary to Alice, Tex. 1923.

91. Use of geodetic control for city surveys / by Hugh C. Mitchell. 1923.

93. Reconnaissance and signal building / by Jasper S. Bilby. 1923.

101. Precise transection, traverse, and leveling in North Carolina / by Henry G. Avers. 1924.

114. Triangulation in Maryland / by Hugh C. Mitchell. 1925.


156. Triangulation in Hawaii / by Hugh C. Mitchell. 1930.


159. The Bowie method of triangulation adjustment as applied to the first-order net in the western part of the United States / by Oscar S. Adams. 1930.
160. Triangulation in Colorado (1927 datum) / by Oscar S. Adams. 1930.

164. First-order triangulation in southeast Alaska / by Walter F. Reynolds. 1930.

179. First-order triangulation in Kansas (1927 datum) / by O.P. Sutherland. 1934.

183. First-order triangulation and traverse in Louisiana (1927 datum) / by O.P. Sutherland. 1934.

186. Triangulation in Missouri (1927 datum) / by Walter F. Reynolds. 1934.

187. First-order triangulation and traverse in Arkansas (1927 datum) / by Walter D. Sutcliffe. 1934.


190. First-order triangulation in Oklahoma (1927 datum) / by Leslie E. Shmidl. 1935.

192. First and second order triangulation and traverse in North Carolina (1927 datum) / by Oscar S. Adams. 1935.


199. Tables for determining the form of the geoid and its indirect effect on gravity, by Walter D. Lambert and Frederic W. Darling. 1936.


203. First and second order triangulation and traverse in Minnesota (1927 datum) / by Walter F. Reynolds. 1936.

209. Triangulation in Utah (1927 datum) by Henry G. Avers, chief mathematician, Division of Geodesy. 1937.


227. Horizontal control data. 1941.


242. Definitions of terms used in geodetic and other surveys by Hugh C. Mitchell. 1948.

242. Definitions of terms used in geodetic and other surveys. 1949.


**Hydrography**


50. Safeguard the gateways of Alaska: her waterways / by Lester E. Jones. 1918.

56. Construction and operation of the wire drag / by J.H. Hawley. 1919.


73. Precise dead reckoning in offshore soundings / by Harry A. Seran. 1921.

75. Radio-compass bearings / by Oscar S. Adams. 1921.


146. Radio acoustic position finding. 1928.


Manuals/Methods/Instructions


26. General instructions for the field work of the U.S. Coast and Geodetic Survey. 1915.


56. Construction and operation of the wire drag / by J.H. Hawley. 1919.


65. Instructions to light keepers on primary triangulation. 1920.

65. Instructions to lightkeepers on first-order triangulation. 2nd ed. 1926.

65. Instructions to lightkeepers on first-order triangulation / by Carl I. Aslakson. 3rd Ed. 1936.


69. Modern methods for measuring the intensity of gravity / by Clarence H. Swick. 1921.


91. Use of geodetic control for city surveys / by Hugh C. Mitchell. 1923.

93. Reconnaissance and signal building / by Jasper S. Bilby. 1923.

96. Instructions for the compensation of the magnetic compass / by N.H. Heck; with the cooperation of W.E. Parker. 1923.

98. A manual of the harmonic analysis and prediction of tides / by Paul Schureman. 1924.


124. Instructions for tidal current surveys / by L. M. Zeskind. 1926.


139. Instructions for tide observations / by G.T. Rude. 1928.


146. Radio acoustic position finding. 1928.


206. Selection, installation and operation of seismographs / by H.E. McComb. 1936.


**Miscellaneous**


6. Notes relative to the use of charts issued by the United States Coast and Geodetic Survey. 1900.


26. General instructions for the field work of the U.S. Coast and Geodetic Survey. 1915.


37. Military and naval service of the United States Coast and Geodetic Survey, 1917-1919 / compiled from official records (not published) by the U.S. Coast and Geodetic Survey.


197. Practical air navigation and the use of the aeronautical charts of the Department of Commerce / by Thoburn C. Lyon. 1935.


216. The United States Coast and Geodetic Survey: its work in surveying and charting the waters of the United States and possessions, geodetic control surveys, and other activities. 1941.

216. The United States Coast and geodetic survey: its work in surveying and charting the waters of the United States and possessions, geodetic control surveys, and other activities. 1946.


238. Supplement to special publication no. 238: conversion tables, statute miles to nautical miles. 1952.

238. Supplement. Conversion tables, statute miles to international nautical miles. 1954.


231. Natural sines and cosines to eight decimal places. 1942.

**Tides and Currents**

32. Description of the U.S. Coast and Geodetic Survey tide-predicting machine no.2. 1915.

41. Use of mean sea level as the datum for elevations / by E. Lester Jones. 1917.


98. A manual of the harmonic analysis and prediction of tides / by Paul Schureman. 1924.


111. Tides and currents in New York Harbor / by H. A. Marmer. 1925.


121. Coastal currents along the Pacific coast of the United States / by H.A. Marmer. 1926.
123. Tides and currents in Delaware bay and river / by L.M. Zeskind and E.A. Le Lacheur. 1926.

124. Instructions for tidal current surveys / by L. M. Zeskind. 1926.


128. Tidal bench marks : state of Rhode Island / by L.A. Cole. 1926.

135. Tidal datum planes / by H.A. Marmer. 1927.


139. Instructions for tide observations / by G.T. Rude. 1928.


142. Tides and currents in Boston Harbor / by Paul Schureman. 1928.


150. Tides and currents in Portsmouth harbor / by A.J. Hoskinson and E.A. LeLacheur. 1929.


162. Tides and currents in Chesapeake Bay and tributaries / by F.J. Haight, H.E. Finnegan and G.L. Anderson. 1930.


180. Tides and currents in Hudson River / by Paul Schureman. 1934.


208. Currents in Narragansett Bay, Buzzards Bay, and Nantucket and Vineyard sounds / by F.J. Haight. 1938 reprint with minor changes.


228. Tide and current glossary / by Paul Schureman. 1941.


230. Coastal currents along the Atlantic Coast of the United States / by F.J. Haight. 1942.


280. Surface water temperatures at tide stations, Pacific Coast, North and South America and Pacific Ocean Islands. Edition: Rev. ed. 1952.

281. Density of sea water at Coast and Geodetic Survey tide stations, Pacific Ocean. 1950.


300. The tsunami of November 4, 1952 as recorded at tide stations / [prepared by W.B. Zerbe]. 1953.

**Topography**


105. Aerial survey of the Mississippi River Delta, by G.C. Mattison, hydrographic and geodetic engineer. 1924.

144. Topographic manual / by O.W. Swainson. 1928