

**A CATALOGUE OF THE PUBLICATIONS OF THE GREAT TRIGONOMETRICAL SURVEY OF INDIA.**

*An Account of the Measurement of an Arc of the Meridian between the parallels of  $18^{\circ} 3'$  and  $24^{\circ} 7'$ , being a continuation of the Grand Meridional Arc of India, as detailed by the late Lieut.-Colonel Lambton, in the Volumes of the Asiatic Society of Calcutta. London, 1830.\**

*An Account of the Measurement of two Sections of the Meridional Arc of India, bounded by the parallels of  $18^{\circ} 3' 15''$ ;  $24^{\circ} 7' 11''$ ; and  $29^{\circ} 30' 48''$ . London, 1847.\**

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*Account of the Operations of the Great Trigonometrical Survey of India : Price Ten Rupees Eight Annas per Volume.*

*Vol. I. The Standards of Measure and the Base-Lines, also an Introductory Account of the early Operations of the Survey during the period 1800-1830. Dehra Doon, 1870.\**

- Appendix No. 1. Description of the method of comparing, and the apparatus employed.
- Appendix No. 2. Comparisons of the Lengths of 10-foot Standards **A** and **B**, and determinations of the Difference of their Expansions.
- Appendix No. 3. Comparisons between the 10-foot Standards **B** **1** **2** and **A**.
- Appendix No. 4. Comparisons of the 6-inch Brass Scales of the Compensated Microscopes.
- Appendix No. 5. Determination of the Length of the Inch [7.8] on Cary's 3-foot Brass Scale.
- Appendix No. 6. Comparisons between the 10-foot Standard Bars **1** **2** and **A** for determining the Expansion of bar **A**.
- Appendix No. 7. Final determination of the Differences in Length between the 10-foot Standards **1** **2** **1** **2** and **A**.
- Appendix No. 8. On the Thermometers employed with the Standards of Length.
- Appendix No. 9. Determination of the Lengths of the Sub-divisions of the Inch [*a*, *b*].
- Appendix No. 10. Report on the Practical Errors of the Measurement of the Cape Comorin Base.

*Vol. II. History and General Description of the Principal Triangulation and of its Reduction. Dehra Dún, 1879.\**

- Appendix No. 1. Investigations applying to the Indian Geodesy.
- Appendix No. 2. The Micrometer Microscope Theodolites.
- Appendix No. 3. On Observations of Terrestrial Refraction at certain stations situated on the plains of the Panjab.
- Appendix No. 4. On the Periodic Errors of Graduated Circles, &c.
- Appendix No. 5. On certain Modifications of Colonel Everest's System of Observing introduced to meet the specialities of particular instruments.
- Appendix No. 6. On Tidal Observations at Kurrachee in 1855.
- Appendix No. 7. An alternative Method of obtaining the Formulæ in Chapters VIII and XV employed in the Reduction of Triangulation.—Additional Formulæ and Demonstrations.
- Appendix No. 8. On the Dispersion of Circuit Errors of Triangulation after the Angles have been corrected for Figural Conditions.
- Appendix No. 9. Corrections to Azimuthal Observations for imperfect Instrumental Adjustments.
- Appendix No. 10. Reduction of the N. W. Quadrilateral—the Non-Circuit Triangles and their Final Figural Adjustments.
- Appendix No. 11. The Theoretical Errors of the Triangulation of the North-West Quadrilateral.
- Appendix No. 12. Simultaneous Reduction of the N. W. Quadrilateral—the Computations.

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\* Out of print.

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*Vol. III. The Principal Triangulation—the Base-Line Figures, the Karáchi Longitudinal, N.W. Himalaya, and Great Indus Series of the North-West Quadrilateral. Dehra Doon, 1873\*.*

*Vol. IV. The Principal Triangulation—the Great Arc (Section  $24^{\circ}$ - $30^{\circ}$ ), Rahún, Gurhágárh and Jogí-Tíla Meridional Series and the Suttlej Series of the North-West Quadrilateral. Dehra Dún, 1876.*

*Vol. IVA. General Description of the Principal Triangulation of the Jodhpore and the Eastern Sind Meridional Series of the North-West Quadrilateral, with the Details of their Reduction and the Final Results. Dehra Dún, 1886.*

*Vol. V. Details of the Pendulum Operations and of their Reduction. Dehra Dún and Calcutta, 1879.*

Appendix No. 1. Account of the Remeasurement of the Length of Kater's Pendulum at the Ordnance Survey Office, Southampton.

Appendix No. 2. On the Relation between the Indian Pendulum Operations, and those which have been conducted elsewhere.

1. General Considerations on Pendulum Operations.
2. General Considerations on the Reduction of Pendulum Observations.
3. On a proposed Method of treatment of the Results of Pendulum Operations, with a view to facilitating the Solution of the General Problem of Local Variation.
4. Sketch of the Method of Solution from the Data as proposed in foregoing Sections.
5. Notes for a History of the Use of Invariable Pendulums.
6. On the Estimation of the Provisional Equatorial Numbers of different Pendulums.
7. Account and Explanation of the Table of Provisional Equatorial Vibration-numbers of Invariable Pendulums.
8. General Synopsis of Determinations.

Appendix No. 3. On the Theory, Use and History of the Convertible Pendulum.

1. The Convertible Pendulum as used by Kater.
2. The Theory of the Convertible Pendulum.
3. Application of the Theory in the case of Kater's and Sabine's Experiments.
4. Application of the Theory to the use of the Reversible Pendulum.
5. On the Constancy or otherwise of the Difference  $A-B$ .
6. Relation of the Subject to the Use of Invariable Pendulums.

Appendix No. 4. On the Length of the Seconds Pendulum determinable from Materials now existing.

1. Review of the Operations with Kater's Convertible Pendulum.
2. Final Comparison of Experiments with Kater's Convertible Pendulum.
3. Other Values of the Length of the Seconds Pendulum.

Appendix No. 5. A Bibliographical List of Works relating to Pendulum Operations in connection with the Problem of the Figure of the Earth.

*Vol. VI. The Principal Triangulation of the South-East Quadrilateral, including the Great Arc-Section  $18^{\circ}$  to  $24^{\circ}$ , the East Coast Series, the Calcutta and the Bider Longitudinal Series, the Jabalpur and the Biláspur Meridional Series, and the Details of their Simultaneous Reduction. Dehra Dún, 1880.\**

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\* Out of print.

- Vol. VII. General Description of the Principal Triangulation of the North-East Quadrilateral, including the Simultaneous Reduction and the Details of five of the component Series, the North-East Longitudinal, the Budhon Meridional, the Rangtr Meridional, the Amua Meridional, and the Karára Meridional. Dehra Dún, 1882.*
- Appendix No. 1. The Details of the Separate Reduction of the Budhon Meridional Series, or Series J of the North-East Quadrilateral.
- Appendix No. 2. Reduction of the North-East Quadrilateral. The Non-circuit Triangles and their Final Figural Adjustments.
- Appendix No. 3. On the Theoretical Errors Generated Respectively in Side, Azimuth, Latitude and Longitude in a Chain of Triangles.
- Appendix No. 4. On the Dispersion of the Residual Errors of a Simultaneous Reduction of Several Chains of Triangles.
- Vol. VIII. Details of the Principal Triangulation of eleven of the component Series of the North-East Quadrilateral, including the following Series; the Guroáni Meridional, the Gora Meridional, the Huriláong Meridional, the Chendwár Meridional, the North Parasnáth Meridional, the North Malúncha Meridional, the Calcutta Meridional, the East Calcutta Longitudinal, the Brahmaputra Meridional, the Eastern Frontier—Section 23° to 26°, and the Assam Longitudinal. Dehra Dún, 1882.*
- Vol. IX. Electro-Telegraphic Longitude Operations executed during the years 1875-77 and 1880-81. Dehra Dún, 1883.*
- Appendix to Part I. 1. Determination of the Geodetic Elements of Longitude Stations.  
2. Descriptions of Points used for Longitude Stations.  
3. Comparison of Geodetic with Electro-Telegraphic Arcs of Longitude.  
4. Circuit Errors of Observed Arcs of Longitude.  
5. Results of Idiometer Observations made during Season 1880-81.
- Appendix to Part II. 1. Situations of the Longitude Stations at Bombay, Aden and Suez.  
2. Survey Operations at Aden.  
3. Results of the Triangulation.  
4. Right Ascensions of Clock Stars.
- Vol. X. Electro-Telegraphic Longitude Operations executed during the years 1881-82, 1882-83 and 1883-84. Dehra Dún, 1887.*
- Appendix to Part I. 1. Determination of the Geodetic Elements of the Longitude Stations.  
2. Descriptions of Stations of the Connecting Triangulation and of those at which the Longitude Observations were taken.  
3. On the Errors in  $\Delta L$  caused by Armature-time and the Retardation of the Electric Current.  
4. On the Rejection of some doubtful Arcs of Season 1881-82.  
5. On the probable Causes of the Errors of Arc-measurements, and on the Nature of the Defects in the Transit Instruments which might produce them.
- Vol. XI. Astronomical Observations for Latitude made during the period 1805 to 1885, with a General Description of the Operations and Final Results. Dehra Dún, 1890.*
- Vol. XII. General Description of the Principal Triangulation of the Southern Trigon, including the Simultaneous Reduction, and the Details of two of the component Series, the Great Arc Meridional—Section 8° to 18°, and the Bombay Longitudinal. Dehra Dún, 1890.*
- Vol. XIII. Details of the Principal Triangulation of five of the component Series of the Southern Trigon, including the following Series; the South Konkan Coast, the Mangalore Meridional, the Madras Meridional and Coast, the South-East Coast, and the Madras Longitudinal. Dehra Dún, 1890.*

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*Vol. XIV. General Description of the Principal Triangulation of the South-West Quadrilateral, including the Simultaneous Reduction and the Details of its component Series. Dehra Dún, 1890.*

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Appendix No. 1. Determination of the Geodetic Elements of the Longitude Stations.

Appendix No. 2. On Retardation (a numerical mistake was made in this appendix in the conversion of a formula from kilometres to miles: the conclusions drawn cannot therefore be upheld).

*Vol. XVI. Details of the Tidal Observations taken during the period from 1873 to 1892 and a Description of the Methods of Reduction. Dehra Dún, 1901.*

*Vol. XVII. Electro-Telegraphic Longitude Operations executed during the years 1894-95-96. The Indo-European Arcs from Karachi to Greenwich. Dehra Dún, 1901.*

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*Vol. XVIII. Astronomical Observations for Latitude made during the period 1885 to 1905 and the Deduced Values of the Deflections of the Plumb-line. Dehra Dún, 1906.*

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*Synopses of the Results of the Operations of the Great Trigonometrical Survey of India, comprising Descriptions, Co-ordinates, &c., of the Principal and Secondary Stations and other Fixed Points of the Several Series of Triangles. For the use of Surveyors in the field. Price Rs. 2 per volume.*

- Vol. I. The Great Indus Series, or Series D of the North-West Quadrilateral. Dehra Doon, 1874.*
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- Vol. VII. The North-West Himalaya Series, or Series C of the North-West Quadrilateral, and the Triangulation of the Kashmir Survey. Dehra Dún, 1879. (Vol. VII is of great use to mountaineers).*
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- Vol. IX. The Jabalpur Meridional Series, or Series E of the South-East Quadrilateral. Dehra Dún, 1878.*
- Vol. X. The Bider Longitudinal Series, or Series D of the South-East Quadrilateral. Dehra Dún, 1880.*
- Vol. XI. The Biláspur Meridional Series, or Series F of the South-East Quadrilateral. Dehra Dún, 1880.*
- Vol. XII. The Calcutta Longitudinal Series, or Series B of the South-East Quadrilateral. Dehra Dún, 1880.*
- Vol. XIII. The East Coast Series, or Series C of the South-East Quadrilateral. Dehra Dún, 1880.*
- Vol. XIII A. The South Párasnáth Meridional Series and the South Malúncha Meridional Series of the South-East Quadrilateral. Dehra Dún, 1885.*
- Vol. XIV. The Budhon Meridional Series, or Series J of the North-East Quadrilateral. Dehra Dún, 1883.*
- Vol. XV. The Rangtr Meridional Series, or Series K of the North-East Quadrilateral. Dehra Dún, 1883.*

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- Vol. XXIII. The South Konkan Coast Series, or Series C of the Southern Trigon. Dehra Dún, 1891.*
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- Vol. XXV. The South-East Coast Series, or Series F of the Southern Trigon. Dehra Dún, 1891.*
- Vol. XXVI. The Bombay Longitudinal Series, or Series B of the Southern Trigon. Dehra Dún, 1892.*
- Vol. XXVII. The Madras Longitudinal Series, or Series G of the Southern Trigon. Dehra Dún, 1892.*
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- Vol. XXIX. The Great Arc Meridional Series—Section 8° to 18°, or Series A of the Southern Trigon. Dehra Dún, 1899.*
- Vol. XXX. The Abu Meridional Series, or Series I, and the Gujarát Longitudinal Series, or Series K of the South-West Quadrilateral. Dehra Dún, 1892.*
- Vol. XXXI. The Khánpisura Meridional Series, or Series G of the South-West Quadrilateral. Dehra Dún, 1893.*
- Vol. XXXII. The Singi Meridional Series, or Series H of the South-West Quadrilateral. Dehra Dún, 1893.*
- Vol. XXXIII. The Cutch Coast Series, or Series L of the South-West Quadrilateral. Dehra Dún, 1893.*
- Vol. XXXIV. The Káthidwár Meridional Series, or Series J of the South-West Quadrilateral. Dehra Dún, 1894.*
- Vol. XXXV. The North-East Longitudinal Series, or Series I of the North-East Quadrilateral. Dehra Dún, 1909. Price five rupees.*
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*Descriptions and heights of all the bench-marks falling within the following sheets will be published in pamphlet form in the course of the year 1911.*

Sheet No.	Limits	Sheet No.	Limits	Sheet No.	Limits	Sheet No.	Limits
35	Lat. 24° - 28° Long. 64° - 68°	45	Lat. 24° - 28° Long. 72° - 76°	55	Lat. 20° - 24° Long. 76° - 80°	66	Lat. 12° - 16° Long. 80° - 84°
38	Lat. 32° - 36° Long. 68° - 72°	46	Lat. 20° - 24° Long. 72° - 76°	56	Lat. 16° - 20° Long. 76° - 80°	72	Lat. 24° - 28° Long. 84° - 88°
39	Lat. 28° - 32° Long. 68° - 72°	47	Lat. 16° - 20° Long. 72° - 76°	57	Lat. 12° - 16° Long. 76° - 80°	73	Lat. 20° - 24° Long. 84° - 88°
40	Lat. 24° - 28° Long. 68° - 72°	48	Lat. 12° - 16° Long. 72° - 76°	58	Lat. 8° - 12° Long. 76° - 80°	74	Lat. 16° - 20° Long. 84° - 88°
41	Lat. 20° - 24° Long. 68° - 72°	49	Lat. 8° - 12° Long. 72° - 76°	63	Lat. 24° - 28° Long. 80° - 84°	78	Lat. 24° - 28° Long. 88° - 92°
43	Lat. 32° - 36° Long. 72° - 76°	53	Lat. 28° - 32° Long. 76° - 80°	64	Lat. 20° - 24° Long. 80° - 84°	79	Lat. 20° - 24° Long. 88° - 92°
44	Lat. 28° - 32° Long. 72° - 76°	54	Lat. 24° - 28° Long. 76° - 80°	65	Lat. 16° - 20° Long. 80° - 84°		

*Professional Papers of the Survey of India.*

- Professional Paper No. 1. On the projection for a Map of India and Adjacent Countries on the Scale of 1 : 1000000. Second Edition, Dehra Dún, 1903.*
- „ „ *No. 2. Method of measuring Geodetic Bases by means of Metallic Wires by M. Jäderin. (Translated from Mémoires Présentés Par Divers Savants À L'académie Des Sciences De L'institut De France). Dehra Dún, 1899.*
- „ „ *No. 3. Method of measuring Geodetic Bases by means of Colby's Compensated Bars. Dehra Dún, 1900.*
- „ „ *No. 4. Notes on the Calibration of Levels. Dehra Dún, 1900.*
- „ „ *No. 5. The Attraction of the Himalaya Mountains upon the Plumb-Line in India\*. Considerations of recent data. Dehra Dún, 1901. Price Two Rupees.*
- „ „ *No. 6. Account of a Determination of the Co-efficients of Expansion of the wires of the Jäderin Base-Line Apparatus. Dehra Dún, 1902.*
- „ „ *No. 7. Miscellaneous. Calcutta, 1903 :—*  
*Price one Rupee, or one Shilling Six Pence.*  
 (1) *On the values of Longitude employed in maps of the Survey of India.*  
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 (6) *Theory of electric projectors (Translated from the French).*

\* *Vide Nature, Vol 68, No. 1699 of May 22, 1902.*

- Professional Paper No. 8. Experiments made to determine the Temperature Co-efficients of Watson's Magnetographs. Calcutta, 1905. Price one Rupee or one Shilling six Pence.*
- „ „ *No. 9. An Account of the Scientific work of the Survey of India and a Comparison of its progress with that of Foreign Surveys. Prepared for the use of the Survey Committee, 1905.\* Calcutta, 1905. Price one Rupee or one Shilling six Pence.*
- „ „ *No. 10. The Pendulum operations in India, 1903 to 1907, by Major G.P. Lenox Conyngham, R.E. Dehra Dún, 1908. Price Two Rupees Eight Annas.*

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*Hand-books for the use of Surveyors.*

*Hand-book of General Instructions for the Survey of India Department. Third Edition. Calcutta, 1907. Price Three Rupees or 4s. 6d.*

*Hand-book of Professional Instructions for the Trigonometrical Branch, Survey of India Department. Second Edition. Calcutta, 1902. Price Three Rupees.*

*Hand-book of Professional Instructions for the Topographical Branch, Survey of India. Third Edition. Calcutta 1905. Price Three Rupees.*

*Auxiliary Tables to facilitate the calculations of the Survey of India. Fourth Edition. Revised and extended. Dehra Dún, 1906. Price Two Rupees.*

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*Special Publications on Scientific subjects.*

*Report on the Explorations in Great Tibet and Mongolia made by A-K in 1879-82. Dehra Dún, 1891.*

*Catalogue of 249 Stars for the epoch January 1, 1892, from observations by the Great Trigonometrical Survey of India. Dehra Dún, 1893. Price Two Rupees.*

*Report on the Recent Determination of the Longitude of Madras. Calcutta, 1897.*

*Report on the Trigonometrical Results of the Earthquake in Assam. Calcutta, 1898.*

*The Total Solar Eclipse, January 22nd, 1898. Dehra Dún, 1898.*

(1) *Report on the observations at Dumraon.*

(2) *Report on the observations at Pulgaon.*

(3) *Report on the observations at Sahdol.*

*Report on the Identification and Nomenclature of the Himalayan Peaks as seen from Katmandu, Nepal.† Calcutta, 1904.*

*A Sketch of the Geography and Geology of the Himalaya Mountains and Tibet by Colonel S. G. Burrard, R.E., F.R.S., Superintendent, Trigonometrical Surveys and Mr. H. H. Hayden, B.A., F.G.S., Superintendent, Geological Survey of India. Calcutta, 1907-08.*

Part I.—The high Peaks of Asia.

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Price Rs. 2 per part.

\* *Vide Nature* Vol. 74, No. 1917 of July 26, 1906.

† *Vide Nature* Vol. 71, Nos. 1828 and 1830 of November 10th and 24th, 1904.



*General Reports on The Operations of the Great Trigonometrical Survey of India from 1861 to 1877.*  
*General Reports on the Operations of the Survey of India from 1878 to 1909.*

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*Extracts from Narrative Reports of the Survey of India. Price Rs. 1-8 or Two Shillings and three pence.*

1900-01. *Recent improvements in Photo-Zincography. G. T. Triangulation, Upper Burma. Latitude Operations, 1900-01. Experimental Base Measurement with Jäderin Apparatus. Magnetic Survey. Tidal and Levelling Report for 1900-01. Topography, Upper Burma. Calcutta, 1903.*

1901-02. *G. T. Triangulation, Upper Burma. Latitude Operations, 1901-02. Magnetic Survey. Tidal and Levelling Report for 1901-02. Topography in Upper Burma. Topography in Sind. Topography in the Punjab. Calcutta, 1904.*

1902-03. *Principal Triangulation, Upper Burma. Topography, Upper Burma. Topography, Shan States. Survey of the Sámbar Lake. Latitude Operations. Tidal and Levelling Operations. Magnetic Survey. Introduction of the Contract System of payment in Traverse Surveys. Traversing with the Subtense Bar. Compilation and Reproduction of Thána maps. Calcutta, 1905.*

1903-04. *The Magnetic Survey of India. Pendulum Operations. Tidal and Levelling Operations. Astronomical Azimuths. Utilisation of old Traverse data for modern Surveys in the United Provinces of Agra and Oudh. Identification of Snow Peaks in Nepal. Topographical Surveys in Sind. Notes on Town and Municipal Surveys. Notes on Riverain Surveys in the Punjab. Calcutta, 1906.*

1904-05. *The Magnetic Survey of India. Pendulum operations. Tidal and Levelling operations. Triangulation in Baluchistan. Survey operations with the Somaliland field force. Calcutta, 1907.*

1905-06. *The Magnetic Survey of India. Pendulum operations. Tidal and Levelling operations. Extract from Narrative Report of No. 11 Party. Calcutta, 1908.*

1906-07. *The Magnetic Survey of India. Pendulum operations. Tidal and Levelling operations. Triangulation in Baluchistan. Astronomical Latitudes. Topographical Surveys in Karenni. Extracts from the Narrative Report of No. 11 Party. Calcutta, 1909.*

1907-08. *The Magnetic Survey of India. Tidal and Levelling operations. Astronomical latitudes. Pendulum operations. Extracts from the Narrative Report of No. 11 Party. Calcutta, 1910.*

*Accounts of the progress of Indian Geodesy were submitted to the International Geodetic Conferences that met at*

*Stuttgart in 1898,*

*Paris in 1900,*

*Copenhagen in 1903,*

*Buda Pesth in 1906,*

*London and Cambridge in 1909,*

*and were published in the reports of the Conferences.*

*Accounts of the progress of Geodesy and Geography in India were published in the Annual Reports of the Board of Scientific Advice from 1905 to date.*

*A paper on Himalayan Attraction was published in the Monthly Notices of the Royal Astronomical Society, January 1902.*

*Summaries of the progress of Geodesy in India were published in the following numbers of the Philosophical Transactions of the Royal Society of London :—*

*Series A, Vol. 186 (1895) pp. 754-816.*

*Series A, Vol. 205 (1905) pp. 289-318.*

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