ON THE USE OF THE BAROMETER ON SURVEYS AND RECONNAISSANCES, BEING A COMPENDIUM, WITHOUT PLATES, OF NO. 15

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649300402

On the Use of the Barometer on Surveys and Reconnaissances, Being a Compendium, without Plates, of No. 15 by R. S. Williamson

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

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R. S. WILLIAMSON

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Trieste

ENGINEER DEPARTMENT, U. S. ARMY.

ON THE USE OF THE BAROMETER

ON

SURVEYS AND RECONNAISSANCES,

BEING

A COMPENDIUM, WITHOUT PLATES, OF NO. 15

OF THE

PROFESSIONAL PAPERS OF THE CORPS OF ENGINEERS.

BY

LIEUT. COL. R. S. WILLIAMSON,
CORPS OF ENGINEERS, U. S. A.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1878.

OFFICE OF THE CHIEF OF ENGINEERS,
Washington, D. C., August 7, 1878.

SIR: Lieut. Col. R. S. Williamson, Corps of Engineers, has submitted to this office a compendium (without plates) of his paper "On the use of the Barometer," &c., Professional Papers, Corps of Engineers, No. 15.

This condensed work contains most of the information to be found in the larger one, with a few tables which are new, the result of further investigation of the subject.

As this compendium will be very useful and convenient to officers conducting barometric reconnaissances, I have the honor to recommend that it be printed at the Government Printing Office, and copies furnished upon the usual requisition.

Very respectfully, your obedient servant,

H. G. WRIGHT,
Acting Chief of Engineers.

Hon. GEO. W. MCCRARY,
Secretary of War.

Approved.
By order of the Secretary of War.

H. T. CROSBY,
Chief Clerk.

WAR DEPARTMENT,
August 10, 1878.

SAN FRANCISCO, CAL.,
April 30th, 1878.

GENERAL: I have the honor to submit for your consideration a condensed copy of my work on meteorology and hypsometry, thinking that a small volume of this kind can easily be carried in the field and be usefully employed there, while the original work with its plates is not in a convenient form for that purpose. This little work contains most of the information to be found in the larger one, but I have added a few tables which are new, the result of further investigation of the subject.

In the concluding remarks I have compared the methods of treating meteorological observations with that of Prof. J. D. Whitney as described in his work entitled "Contributions to Barometric Hypsometry," and have shown conclusively that there are over forty per cent. more of maximum and mean errors by his method than by mine.

Very respectfully, your obedient servant,

R. S. WILLIAMSON,
Lieutenant Colonel of Engineers.

Brig. Gen. A. A. HUMPHREYS,
Chief of Engineers, U. S. A.

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