

This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1904 Excerpt: ...mentions the result of the work of Professor Dr. Hecker on the measurement of gravity on the open ocean by the comparison of two methods of determining atmospheric pressure, viz, the observation of the mercurial barometer whose records are affected by gravity, and the determination of pressure by the use of the boiling point thermometer, whose indications are not affected by the variation of gravity. Of course, the aneroid barometer could be used instead of the thermometer, but it is not considered to be so reliable. In fact the temperature of the boiling point can not be determined with sufficient accuracy unless every known source of error is most carefully investigated. Professor Heckers revised computations give the following results: The excess of pressure shown by a mercurial barometer over the pressure shown by the thermohypsometer, is greater when sailing over the shallow part of the ocean than when sailing over the deep sea between Lisbon and Rio Janeiro. On the voyage southward this excess expressed in millimeters of the mercurial column was $+ 0.017 \pm 0.015$; on the return voyage northward the excess was $+ 0.018 \pm 0.015$. Combining these two results into one average and converting that from millimeters of barometric pressure into centimeters per second, as the unit of the force of gravity, Professor Heckers observations show that in general, in this part of the ocean, gravity over shallow seas is greater than that over the deep sea by $+ 0.028 \pm 0.018$ cm. The standard force of gravity is 980.0 centimeters per second, so that the diminution over the deep sea is about 0.00003 of gravity, or 3/1000 of one per cent of its full value. From a geographic point of view this result seems t...

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and analysis of the subtropical jet streak influencing the pre-cyclogenetic period,â€• Monthly Weather Review, vol. , no. 1, pp. 31â€“55,

31, pp. â€“, View at Google Scholar; L. A. Avila and R. J. Pash, â€œ Atlantic tropical systems of ,â€• Monthly Weather Review, vol. Thursday, 1 November - Monthly Climate Summary for Greater Sydney the 31st, and the coolest day was on the 5th when the temperature reached . atmosphere, a simplified scheme for computing the radiative temperature change is constructed. The effects in .. large as that of NrV2 collision instend of twice implied by equations (30) and (31). Ifso, Monthly Weather Reuiew, vol. 58, No .

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