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Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Geostrophic Vortices on a Circle of Latitude in a Cap on a Rotating Sphere: July 1974 A thin spherical layer of an incompressible, inviscid fluid which is held on the surface  $S$  of a rotating ball by gravitation can be taken for some purposes as an approximation to the Earth's atmosphere. An investigation of the two dimensional vortical motion in such a layer should be useful for the understanding of certain observed meteorological phenomena. For example, it appears that the analysis of large scale closed isobaric systems can be based on a knowledge of the paths of concentrated vortices. This report presents a study of the vortical motion which is due to the existence of concentrated vortices (normal to  $S$ ) which are confined to a polar cap and subject to a boundary condition along a circle of latitude. We assume that the departure of the free outer surface of the layer from an equilibrium position is small; and that the tangential acceleration is negligible compared with the Coriolis force. We also assume that the variation of the Coriolis force with latitude can be neglected. In other words, we study geostrophic vortices on a sphere as contrasted with geostrophic vortices on a plane. The latter have been discussed by several authors in connection with the motion in a rotating planar tangential layer as an approximation to the motion in a thin layer of fluid covering a rotating ball. References can be found in the paper by Morikawa, [1]. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art...

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