



## Nonlinear Processes in Geophysical Fluid Dynamics: A tribute to the scientific work of Pedro Ripa (Paperback)

By -

Springer, Netherlands, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This volume contains a collection of papers by international experts in geophysical fluid dynamics, based upon presentations at a colloquium held in memory of Pedro Ripa on the first anniversary of his untimely death. They review or present recent developments in hydrodynamic stability theory, Hamiltonian fluid mechanics, balanced dynamics, waves, vortices, general oceanography and the physical oceanography of the Gulf of California; all of them subjects in which Professor Ripa made important contributions. His work, but also his friendly spirit and kindness were highly regarded and appreciated by colleagues and students alike around the world. This book is a tribute to his scientific legacy and constitutes a valuable reference for researchers and graduate students interested in geophysical and general fluid mechanics. Early in his career as a physical oceanographer, Pedro Ripa made two landmark contributions to geophysical fluid dynamics. In 1981, he showed that the conservation of the potential vorticity is related to the invariance of the equations of motion under the symmetry transformations of the labels that identify the fluid particles. That is, potential vorticity conservation is a consequence, via Noether's theorem, of the particle re-labelling symmetry. Two years later he published a paper entitled General stability conditions for zonal flows in a one-layer model on the beta-plane or...



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