Boris Galperin

Experimental Investigation of the Momentum and Mass Transfer by Zonal Jets

In collaboration ith Dr. Stefania Espa at the DICEA Sapien a University di Roma, Magneroh drod namicall -prod ced east ard onal jets ill be investigated. While est ard jets prod ce energetic eddies, east ard jets generate basin-lide gires. As a resilt, most eddies in the atmospheres of Jipiter and Sat rn here the jet os are profond reside in the vicinit of the lest ard jets. In Earth's oceans, the continental constraints prodice estern boindar circumstraint give rise to east ard jets, sich as the Gilf Stream and the Kiroshio Extension, hich, in tirn, spain large recircillation gires. We are investigating the sibtleties of sich jets and gires, as ell as their interaction. This collaboration ill provide intellect al imper significant circines continents.

Partnerships:

Stefania Espa, Ph.D., Assisrant Professor Sapien a Universit of Rome (Rome, Ital) Gregory King, Ph.D., Research Associate Universit of So th Florida (St. Petersb rg, Florida)

