

**Rhines, Peter B.; Young, William R.**

**Homogenization of potential vorticity in planetary gyres.** (English) Zbl 0497.76032  
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For a scan of this review see the [web version](#).

**MSC:**

- 76B47 Vortex flows for incompressible inviscid fluids
- 76F05 Isotropic turbulence; homogeneous turbulence
- 86A05 Hydrology, hydrography, oceanography
- 76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing
- 76R05 Forced convection

Cited in **22** Documents

**Keywords:**

planetary gyres; mean circulation of planetary fluids; uniform potential vorticity; closed time-mean streamlines or closed isolines of mean potential vorticity; geostrophic turbulence; wave-induced potential-vorticity flux; direct forcing by external stress or heating negligible in comparison with potential-density surface; Prandtl-Batchelor theorem

**Full Text:** [DOI](#)

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