

ERRATUM

A general dispersion relation for internal gravity waves in the atmosphere or ocean, including baroclinicity, vorticity, and rate of strain

R. Michael Jones

Cooperative Institute for Research in Environmental Sciences (CIRES)
University of Colorado/NOAA
Boulder, Colorado, USA

June 11, 2008

The quantity ρ_{pot} used in the paper [Jones(2005)] is not the usual potential density, defined as the density the fluid would have if brought to a standard pressure (say at sea level), but instead is the potential density relative to the point where the fluid actually is. The correction required is to replace ρ_{pot} by $\tilde{\rho}_{\text{pot}}$ everywhere in the paper, where $\nabla\tilde{\rho}_{\text{pot}} \equiv \nabla\rho - \nabla p/c^2$.

References

[Jones(2005)] Jones, R. M. (2005), A general Dispersion relation for internal gravity waves in the atmosphere or ocean, including baroclinicity, vorticity, and rate of strain, *J. Geophys. Res.*, *110*, D22106, doi: 10.1029/2004JD005654.