

**Volume 69, Issue 9 (September 2012)**
[View Abstracts](#)   [Add to Favorites](#)   [Email](#)   [Download to Citation Manager](#)   [Track Citations](#)
Select  
AllDenotes  
Open  
Access  
Content**ARTICLES**

- 2621 **The Roles of an Expanding Wind Field and Inertial Stability in Tropical Cyclone Secondary Eyewall Formation**  
*Christopher M. Rozoff, David S. Nolan, James P. Kossin, Fuqing Zhang, Juan Fang*  
[Abstract](#) . [Full Text](#) . [PDF \(9364 KB\)](#) 2621–  
2643
- 2644 **Vertical Structure of Tropical Cyclone Rainbands as Seen by the TRMM Precipitation Radar**  
*Deanna A. Hence, Robert A. Houze Jr.*  
[Abstract](#) . [Full Text](#) . [PDF \(3741 KB\)](#) 2644–  
2661
- 2662 **Comparison of Simulated and Observed Continental Tropical Anvil Clouds and Their Radiative Heating Profiles**  
*Scott W. Powell, Robert A. Houze Jr., Anil Kumar, Sally A. McFarlane*  
[Abstract](#) . [Full Text](#) . [PDF \(2376 KB\)](#) 2662–  
2681
- 2682 **Influence of the Subcloud Layer on the Development of a Deep Convective Ensemble**  
*Steven J. Böing, Harm J. J. Jonker, A. Pier Siebesma, Wojciech W. Grabowski*  
[Abstract](#) . [Full Text](#) . [PDF \(3918 KB\)](#) 2682–  
2698
- 2699 **The Importance of the Nontraditional Coriolis Terms in Large-Scale Motions in the Tropics Forced by Prescribed Cumulus Heating**  
*Michiya Hayashi, Hisanori Itoh*  
[Abstract](#) . [Full Text](#) . [PDF \(1618 KB\)](#) 2699–  
2716
- 2718 **A Detailed Normal-Mode Energetics of the General Circulation of the Atmosphere**  
*C. A. F. Marques, J. M. Castanheira*  
[Abstract](#) . [Full Text](#) . [PDF \(1419 KB\)](#) 2718–  
2732
- 2733 **Enthalpy Transfer across the Air–Water Interface in High Winds Including Spray**  
*Dahai Jeong, Brian K. Haus, Mark A. Donelan*  
[Abstract](#) . [Full Text](#) . [PDF \(1333 KB\)](#) 2733–  
2748
- 2749 **A Frictional Skeleton Model for the Madden–Julian Oscillation**  
*Fei Liu, Bin Wang*  
[Abstract](#) . [Full Text](#) . [PDF \(5041 KB\)](#) 2749–  
2758
- 2759 **Weakly Forced Mock Walker Cells**  
*Zhiming Kuang*  
[Abstract](#) . [Full Text](#) . [PDF \(6247 KB\)](#) 2759–  
2786
- 2787 **The Role of Small Soluble Aerosols in the Microphysics of Deep Maritime Clouds**  
*A. P. Khain, V. Phillips, N. Benmoshe, A. Pokrovsky*  
[Abstract](#) . [Full Text](#) . [PDF \(3637 KB\)](#) 2787–  
2807
- 2808 **Estimation of Atmospheric Duct Structure Using Radar Sea Clutter**  
*Zhao Xiaofeng, Huang Sixun*  
[Abstract](#) . [Full Text](#) . [PDF \(1285 KB\)](#) 2808–  
2818
- 2819 **On Imbalance Generated by Vortical Flows in a Two-Layer Spherical Boussinesq Primitive Equation Model**  
*Mohammad Mirzaei, Ali R. Mohebalhojeh, Farhang Ahmadi-Givi*  
[Abstract](#) . [Full Text](#) . [PDF \(1150 KB\)](#) 2819–  
2834
- 2835 **Weak Pressure Gradient Approximation and Its Analytical Solutions** 2835–

	<i>David M. Romps</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (824 KB)</a>	2845
2846	<input checked="" type="checkbox"/>  <b>Numerical Tests of the Weak Pressure Gradient Approximation</b> <i>David M. Romps</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (1104 KB)</a>	2846– 2856
2857	<input checked="" type="checkbox"/>  <b>Stratospheric versus Tropospheric Control of the Strength and Structure of the Brewer–Dobson Circulation</b> <i>Edwin P. Gerber</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (4060 KB)</a>	2857– 2877
2878	<input checked="" type="checkbox"/>  <b>A Theory of Topographically Bound Balanced Motions and Application to Atmospheric Low-Level Jets</b> <i>Levi G. Silvers, Wayne H. Schubert</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (4271 KB)</a>	2878– 2891
2892	<input checked="" type="checkbox"/>  <b>Hypercooling in the Nocturnal Boundary Layer: Broadband Emissivity Schemes</b> <i>V. K. Ponnulakshmi, V. Mukund, D. K. Singh, K. R. Sreenivas, G. Subramanian</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (1375 KB)</a>	2892– 2905
2906	<input checked="" type="checkbox"/>  <b>Vertical Wavenumber Spectra of Gravity Waves in the Martian Atmosphere Obtained from <i>Mars Global Surveyor</i> Radio Occultation Data</b> <i>Hiroki Ando, Takeshi Imamura, Toshitaka Tsuda</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (739 KB)</a>	2906– 2912

## CORRESPONDENCE

2913	<input checked="" type="checkbox"/>  <b>Comments on “The Usefulness of Piecewise Potential Vorticity Inversion”</b> <i>Joseph Egger</i> <a href="#">Citation</a> . <a href="#">Full Text</a> . <a href="#">PDF (423 KB)</a>	2913– 2914
2915	<input checked="" type="checkbox"/>  <b>Reply to “Comments on ‘The Usefulness of Piecewise Potential Vorticity Inversion’”</b> <i>Björn Røsting, Jón Egill Kristjánsson</i> <a href="#">Citation</a> . <a href="#">Full Text</a> . <a href="#">PDF (420 KB)</a>	2915– 2916