

## **Publications in Atmospheric Boundary Layer and Stratified Flow**

1. **Lin, C.-L.**, Q. Xia, and R. Calhoun, "Retrieval of Urban Boundary Layer Structures from Doppler Lidar Data. Part II: Proper Orthogonal Decomposition," *Journal of the Atmospheric Sciences*, Vol. 65, No. 1, pp. 21-42, **2008**.
2. Xia, Q., **C.-L. Lin**, R. Calhoun, R. K. Newsom, "Retrieval of Urban Boundary Layer Structures from Doppler Lidar Data. Part I: Accuracy Assessment," *Journal of the Atmospheric Sciences*, Vol. 65, No. 1, pp. 3-20, **2008**.
3. Chai, T., **C.-L. Lin**, and R. K. Newsom, "Retrieval of Microscale Flow Structures from High Resolution Doppler Lidar Data Using an Adjoint Model," *Journal of the Atmospheric Sciences*, Vol. 61 (13), pp. 1500-1520, **2004**.
4. **Lin, C.-L.** and J.W. Glendening, "Large Eddy Simulation of an Inhomogeneous Atmospheric Boundary Layer Under Neutral Conditions," *Journal of the Atmospheric Sciences*, Vol. 59 (16), pp. 2479-2497, **2002**.
5. Glendening, J.W. and **C.-L. Lin**, "Large-Eddy Simulation of Internal Boundary Layers Created by a Change in Surface Roughness," *Journal of the Atmospheric Sciences*, Vol. 59 (10), pp. 1697-1711, **2002**.
6. **Lin, C.-L.**, Chai, T., and J. Sun, "Retrieval of Flow Structures in a Convective Boundary Layer Using an Adjoint Model: Identical Twin Experiments," *Journal of the Atmospheric Sciences*, Vol. 58 (13), pp. 1767-1783, **2001**.
7. **Lin, C.-L.**, "Energy transfer in a fluid with a uniform density gradient," *Dynamics of Atmospheres and Oceans*, Vol. 32 (2), pp. 113-134, **2000**.
8. **Lin, C.-L.**, "Local pressure-transport structure in a convective atmospheric boundary layer," *Physics of Fluids*, Vol. 12 (5), pp. 1112-1128, **2000**.
9. **Lin, C.-L.**, "Near-grid energy transfer and coherent structures in the convective planetary boundary layer," *Physics of Fluids*, Vol. 11 (11), pp. 3482-3494, **1999**.
10. **Lin, C.-L.**, Koseff, J.R., Ferziger, J.H., and S.G. Monismith, "Direct numerical simulation of wave-mean flow and wave-wave interactions: a brief perspective," *Physical Processes in Lakes and Oceans* (ed. J. Imberger), American Geophysical Union, pp. 271-284, **1998**.
11. **Lin, C.-L.**, Moeng, C.-H., Sullivan, P.P., and J.C. McWilliams, "The effect of surface roughness on flow structures in a neutrally stratified planetary boundary layer," *Physics of Fluids*, Vol. 9 (11), pp. 3235-3249, **1997**.
12. **Lin, C.-L.**, McWilliams, J.C., Moeng, C.-H., and P.P. Sullivan, "Coherent structures and dynamics in a neutrally stratified planetary boundary layer flow," *Physics of Fluids*, Vol. 8 (10), pp. 2626-2639, **1996**.

13. **Lin, C.-L.**, Koseff, J.R., and J.H. Ferziger, "On triad interactions in a linearly stratified ocean," *J. Phys. Oceanogr.*, Vol. 25 (1), pp. 153-167, **1995**.
14. **Lin, C.-L.**, Ferziger, J.H., Koseff, J.R., and S.G. Monismith, "Simulation and stability of two-dimensional internal gravity waves in a stratified shear flow," *Dynamics of Atmospheres and Oceans*, Vol. 19, pp. 325-366, **1993**.