

Jung-Hyo Chae

Post-doctoral fellow

NASA Jet Propulsion Laboratory California Institute of Technology

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Education

2008 September 15th ~ : Post doctoral fellow at JPL (advisor Dr. Dong. L. Wu)

2008 May :Ph.D. Atmosphere, Ocean and Climate Dynamics, Yale University

2003 M.Phil. Atmosphere, Ocean and Climate Dynamics, Yale University.

2000 B.S. Atmospheric Science, Yonsei University, South Korea

Research Interest

Atmospheric and climate dynamics in tropics

Role of clouds, aerosols, and surface albedo in global climate change

Modeling of cloud radiation and dynamic interaction within tropical tropopause layer

Low frequency variability of large-scale atmospheric flow

Professional Affiliations

American Geological Union

American Meteorological Society

Teaching Experiences

2006 Math and Science Tutor, The Science and QR tutoring program, Yale University

2003 TFI, G&G 120b, Global Environmental Change, Yale University

2002 TFI, G&G 120b, Global Environmental Change, Yale University

Field Experiences

2006 TWP-ICE experiment, Darwin, Australia, assistant with radiosonde field sites

Publications

Chae, J-H., S.C. Sherwood, and F. Robinson, 2008: Observing and explaining variations in deep convective cloud top height, manuscript in preparation

Chae, J-H., and S. C. Sherwood, 2007: The annual temperature cycle of the tropical tropopause: a simple model study, J. Geophys. Res., 112, D19111, doi:10.1029/2006JD007956

Sherwood, S. C., J-H. Chae, P. Minnis, and M. McGill, 2004: Underestimation of deep convective cloud tops by thermal imagery, Geophys. Res. Lett., 31 L11102, doi:10.1029/2004GL019699.

Conference Abstract/Poster

Chae, J-H., S. C. Sherwood, and F. Robinson, 2008: Observing and explaining variations in deep convective cloud top height, accepted in AMS Conference on Hurricanes and Tropical Meteorology, 28 April – 2 May Orlando, FL.

Sherwood, S. C., J-H. Chae, and F. Robinson, 2007: Observing and explaining deep convective cloud height variations, A Train Lille 2007 - Symposium

Chae, J-H., and S. C. Sherwood, 2006: The annual temperature cycle of the tropical tropopause: A simple model study, SPARC-GEWEX/GCSS-IGAC Invitational workshop

Chae, J-H., and S. C. Sherwood, 2006: The annual temperature cycle of the tropical tropopause: A simple model study, AGU Joint Assembly, GC54A

Sherwood, S. C., J-H. Chae, P. Minnis, and M. McGill, 2004: Stereoscopic, thermal, and true deep cumulus cloud top heights, Joint Assembly, AGU Joint Assembly, GC54A04

Sherwood, S. C., J-H. Chae, M. McGill, and P. minis, 2003: Deep convective cloud top heights during CRYSTAL-FACE, AGU fall meeting, A22A-1058