

DANA K. MCGLONE

(303) 921-5999

Email: dmaglone@appliedweatherassociates.com

EDUCATION

Master of Science: University at Albany, SUNY Fall 2011

Field: Atmospheric Science

Concentrations: Climatology and climate model validation

Advisor: Dr. Mathias Vuille

Thesis: McGlone, D. (2011), Review of the simulation of the PRECIS regional climate model over tropical South America using GCM and reanalysis lateral boundary conditions, M.S. thesis, 133 pp., State Univ. of N. Y. at Albany, Albany.

Bachelor of Science: Valparaiso University May 2009

Field: Meteorology with Mathematics minor

METEOROLOGICAL EXPERIENCE

Staff Meteorologist at Applied Weather Associates Monument, CO

January 2013 – present

- Meteorological analysis of extreme precipitation events for PMP studies
- Data mining, sorting and quality control for past precipitation events

Applied Meteorology Internship at Vaisala Louisville, CO

February 2012 – May 2012

- Developed verification time series plots implemented in real time
- Utilized turbine nacelle measurements from pi data stream
- Worked with proprietary observation network datasets
- Developed wind ramp classification database to support observation network assessment study

REU at NASA Goddard

Summer 2008

- Updated databases with radar and satellite data from previous year for Melbourne and Kwajalein
- Presentation and poster (available) titled: Validation of the Rain Rate and Reflectivity Factor from the TRMM Precipitation Radar using Melbourne and Kwajalein Ground-Based Radars
- Second project titled: Drop size distribution and radar attenuation

Teaching Assistant SUNY at Albany

Fall 2009-Fall 2011

- TA for Environmental Analysis, Major Topics in Environmental Science and Paleoclimatology
- Responsibilities included teaching classes, office hours, grading and making copies of relevant literature

Internship at FOX 31 Denver, CO

Summer 2007

- Assisted with forecasts and graphics

Convective Field Study

-Created and participated in daily weather briefings

Summer 2007, 2008, 2009

PUBLICATIONS

PEER-REVIEWED:

McGlone, D. and M. Vuille, 2012: The associations between El Niño – Southern Oscillation and tropical South American climate in a regional climate model. *J. Geophys. Res.*, 117 D06105, doi:10.1029/2011JD017066.

NON PEER-REVIEWED:

Regional Workshop: Melting snow and glaciers in the Andes

McGlone, D., 2011: Melting snow and glaciers in the Andes: Science, technology and policy for adaptation to cope with complexity in the context of climate change. Workshop report (available), Santiago, Chile.

AGU Fall Meeting

McGlone, D. 2010: Comparison of the PRECIS regional climate model performance using lateral boundary conditions from GCM and reanalysis data over tropical South America. Oral presentation, San Francisco, CA.

7th Annual Great Lakes Meteorology Conference

McGlone, D. 2009: Validation of the Rain Rate and Reflectivity Factor from the TRMM Precipitation Radar using Melbourne and Kwajalein Ground-Based Radars. Poster presentation, Valparaiso, IN.

4th Annual Great Lakes Meteorology Conference

Attended 2006: Valparaiso, IN.

PROFESSIONAL MEMBERSHIPS

- American Meteorological Society
- American Geophysical Union

TECHNICAL EXPERTISE

- Mathematical/Scientific Tools:
 - Familiarity with GARP, GEMPAK, NCL, Wxwork
 - Proficient in MATLAB, R, GIS
- Programming:
 - Familiarity with Perl, shell scripting, MySQL
 - Proficient in Fortran
- Operating Systems:
 - Proficient in UNIX, Linux, Windows, Mac