

Carol M. Ciliberti

Cooperative Institute for Regional Prediction
University of Utah, Department of Meteorology
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Resume Appendix

Skills and Experience

- **Computer skills:**
 - eleven years experience in Fortran programming
 - six years experience using the Unix operating system on Sun workstations, including c-shell scripting
 - html programming for web page development and maintenance
 - Some experience in C programming
 - display and interpretation of gridded meteorological data sets using a variety of graphical interfaces,
 - Word Perfect, Microsoft Word, Power Point and Adobe Framemaker used to produce scientific papers and other documents
 - maintain a sizeable network of operationally-produced computer weather products at the University of Utah
- **Writing and Communication Experience:**
 - first author of three conference papers
 - co-author of two additional conference papers
 - co-author of a refereed journal paper currently in review
 - present research results at conferences attended by peers, ranging from local to international attendance
 - prepared and presented a mountain weather forecasting lecture for the National Ski Patrol Level II Avalanche Class
 - prepare and present seminars pertaining to snow stability evaluation and avalanche hazard assessment
 - directed field sessions teaching avalanche rescue and related mountain skills
 - interviewed frequently with local and national media as a Forest Service avalanche professional
 - participated in a Learning Channel documentary detailing my role in leading the live rescue of an avalanche victim
 - lead weather discussions to aid in planning field research experiment operations
 - prepared and presented a tutorial on the use of the Gempak graphical display program to National Weather Service forecasters
- **Weather Forecasting Skills:**
 - provided weather forecast support for field research experiments
 - interpreted numerical weather prediction model forecasts and analyses
 - interpreted meteorological data: radar and satellite imagery, upper air soundings and surface station data sets
 - interpret objective analyses for assessment of current local-scale weather conditions
 - performed mountain weather forecasting for the Utah Avalanche Center
 - coordinated with NWS Forecasters to produce forecasts of snowfall amount in mountain regions
 - learned forecasting methods and procedures through close contact with NWS forecasters
- **Additional Skills**
 - developed an enhanced ability to learn new methods and procedures
 - learned to apply rational methods of problem solving to new subjects
 - developed the skills and knowledge to conduct independent research
 - ability to work productively within a group
 - ability to effectively direct the work of others
 - facilitated group discussions and planning
 - developed skills to create forecast products under extreme time constraints

Publications in Review

- Lazarus, S. M., C. M. Ciliberti, and J. D. Horel: Near-real time applications of a mesoscale analysis system to complex terrain. Submitted to *Weather and Forecasting*.

Conference Papers:

- Horel, J. D., C. M. Ciliberti, and S. M. Lazarus, 2001: Data assimilation over the Western United States. Preprints, 5th Symposium on Integrated Observing Systems, Albuquerque, New Mexico, Amer. Met. Soc., Jan 14-19.
- Ciliberti, C. M., J. D. Horel, and S. M. Lazarus, 2000: Sensitivity experiments with a high resolution data assimilation scheme. Preprints, 9th Conference on Mountain Meteorology, Aspen Colorado, Amer. Met. Soc., 413-416
- Lazarus, S. M., C. M. Ciliberti, and J. D. Horel, 2000: Wind analysis in complex terrain. Preprints, 9th Conference on Mountain Meteorology, Aspen Colorado, Amer. Met. Soc., 282-283.
- Ciliberti, C. M., J. D. Horel, and S. M. Lazarus, 1999: An analysis of a cold frontal passage over complex terrain in northwest Utah. Preprints, 8th Conference on Mesoscale Processes, Boulder Colorado, Amer. Met. Soc., 459-462.
- Ciliberti, C. M., J. D. Horel, and M. Splitt, 2001: Applications of MesoWest to fire weather. Preprint, 4th Symposium on Fire and Forest Meteorology, Reno, Nevada, Amer. Met. Soc.

General Research Collaborators

- J. D. Horel, S. M. Lazarus, and L. Holland, University of Utah, ADAS research group
- M. Splitt and J. B. Pechman, University of Utah, MesoWest research group
- W. J. Steenburgh and D. J. Onton, University of Utah, MM5 research group

Educational Background

- In progress: Ph.D. in Meteorology, University of Utah
—Thesis research: Implementation and adaptation of a high resolution data assimilation scheme over regions of complex terrain.
- M.S. Meteorology, University of Utah, Spring, 1996
—Thesis: *Sensitivity of the Utah Limited Area Model to Upper Boundary Conditions*
- B.S. Meteorology (Summa Cum Laude), University of Utah, Spring 1992
- Undergraduate class work, University of Montana, 1981-82

References

- W. James Steenburgh, Associate Professor of Meteorology
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- Lawrence B. Dunn, Meteorologist in Charge, Salt lake City NWS Forecast Office
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