Training in Road Meteorology

+ SIRWEC Guide

+ MetEd – COMET

- EUMETCAL

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http://www.sirwec.org

What is SIRWEC
The Constitution
RWIS: global state of play
History of SIRWEC Conferences
The next SIRWEC Conference
Links to road weather sites
How to join SIRWEC
The committee
Homologation
RWIS web guide

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Standing International Road Weather Commission

SIRWEC exists to encourage meteorologists, weather forecasters, highway engineers, road masters and others, who are interested in road weather problems, to exchange ideas to make our roads safer to drive on in all weather conditions.

The 14th SIRWEC Conference 2008

Place: Prague, Czech Republic
Date: May 14th to 16th 2008

5th Topic: „Education in road weather forecasting"

SIRWEC Guide – Introduction in Prague 2008?

A Guide to Road Weather Systems

Edited by Steve White, John Thornes and Lee Chapman, University of Birmingham, UK

Useful links

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Links to other Road Weather Sites

Other Commercial Companies / Organizations

Axicon (BiTaD), Norway
Campbell Scientific
Cryotech,USA
Davis Instruments, USA
Ilkka Lilja Oy, Finland
micKS, Germany
R.M. Young Company
Salt Institute, USA
Traffic Technology 2000
Weather Solutions Consultants, USA

Government / Universities / General

Anti-Icing Research
COST 309, road weather conditions
COST 344, Winterterm Glossary
Aurora
Clarus
FHWA Road Weather Management Program
National Academies book "Where the Weather Meets the Road"
Office of Minnesota Road Research
World Road Assocation (PIARC)
Snow and Ice Pooled Fund Cooperative Program (SICOP)
Surface Transportation Weather Research Center

MetEd – COMET Program

http://www.meted.ucar.edu
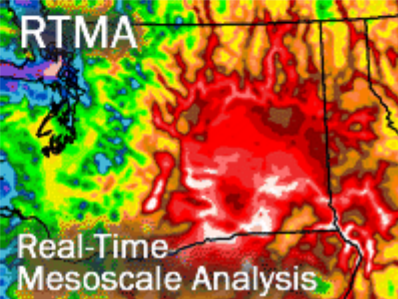
MetEd
Meteorology Education & Training

Operated by the **COMET** Program

Serving meteorologists since 1989

Winter Weather

Special Interest

COMET Winter Weather Distance Learning Course
This course provides two separate learning paths through modules and webcasts available on MetEd, reviewing key topics in winter weather forecasting.

Northern-Latitude Meteorology
If you are interested in winter weather meteorology, you may be interested in taking advantage of many of the features of our special Website on Northern-Latitude Meteorology.

This site provides access to education and training materials on meteorological topics of interest especially in Canada, Alaska, and the northern-tier states of the U.S.

Outreach Program Report
A COMET Outreach Program partnership between the Univ. of Northern Iowa and the La Crosse, Wisconsin NWS Forecast Office provided a foundation for applying downscaling information at the La Crosse WFO, as well as in the surrounding area. Downscaling is the process whereby national products, forecasts and information are scaled down to the WFO to provide local application of the national information. The project fits in with the national initiative to enhance local information related to national longer-range forecast issuances and provides very useful information that can be applied to future downscaled forecast products. See the report: *The correlation between October temperature anomalies and winter temperature anomalies in the Midwest during El Niño events.*

Materials: Courses | Modules | Case Studies | Translated Modules | Lectures

Distance Learning Courses

Course Title and Link
Winter Weather Distance Learning Course
description (click to show/hide)

Modules

Level	Module Title and Link	Quiz Link
①	Anticipating Hazardous Weather and Community Risk description (click to show/hide)	No Quiz
②	Barrier Jet Forecasting: Eastern Foothills and High Plains of Colorado, 17-20 March 2003 description (click to show/hide)	Quiz
②	Blowing Snow: Baker Lake, Nunavut, Canada 04-10 February 2003 description (click to show/hide)	Quiz
③	Canadian EPV Charts description (click to show/hide)	No Quiz
②	Cold Air Damming description (click to show/hide)	Quiz
②	Dynamics & Microphysics of Cool-Season Orographic Storms description (click to show/hide)	Quiz
②	Extratropical Cyclones description (click to show/hide)	No Quiz
②	Feature Identification Exercises: Clouds, Snow, and Ice Using MODIS description (click to show/hide)	Quiz
②	Forecasting Aviation Icing: Icing Type and Severity description (click to show/hide)	Quiz
②	Freezing and Melting, Precipitation Type, and Numerical Weather Prediction description (click to show/hide)	Quiz

http://www.meted.ucar.edu

② Heavy Banded Snow   Quiz
    description (click to show/hide)

② Icing Assessment Using Observations and Pilot Reports   Quiz
    description (click to show/hide)

② Icing Assessment Using Soundings and Wind Profiles   No Quiz
    description (click to show/hide)

② Inverted Troughs and Their Associated Precipitation   Quiz
   Regimes
    description (click to show/hide)

② Inverted Troughs Case Exercise   No Quiz
    description (click to show/hide)

③ Isentropic Analysis   Quiz
    description (click to show/hide)

③ Jet Streak Circulations   Quiz
    description (click to show/hide)

② Mesoscale Aspects of Winter Weather Forecasting Topics   No Quiz
    description (click to show/hide)

② Mesoscale Banded Precipitation   Quiz
    description (click to show/hide)

② Ocean Effect Snow: New England Snow Storm, 14   Quiz
   January 1999
    description (click to show/hide)

② Polar Lows Ungava Bay 01 December 2000   No Quiz
    description (click to show/hide)

② Polar Satellite Products for the Operational Forecaster   No Quiz
   (POES) Module 3: Case Studies
    description (click to show/hide)

② Precipitation Type: New Brunswick, 01-03 February 2003   Quiz
    description (click to show/hide)

② Review of GOES IR Imagery Including Winter and Icing   No Quiz
   Applications
    description (click to show/hide)

② Satellite Meteorology: Case Studies Using GOES Imager   No Quiz
   Data
    description (click to show/hide)

② Slantwise Convection Case Exercise   No Quiz
    description (click to show/hide)

② Slantwise Convection: An Operational Approach   Quiz
    description (click to show/hide)

② Snowmelt Processes   Quiz
    description (click to show/hide)

③ The Use and Misuse of Conditional Symmetric Instability   Quiz
    description (click to show/hide)

② Topics in Lake Effect Snow Forecasting   Quiz
    description (click to show/hide)

② Topics in Polar Low Forecasting   Quiz
    description (click to show/hide)

② Topics in Precipitation Type Forecasting   Quiz
    description (click to show/hide)

return to top^

Case Studies

Case Title and Link

A Comparison of Diagnosed Vs. Predicted Precipitation Type in the
Eta Forecast Model: 3-6 December 2002
    description (click to show/hide)

Eta-12 Forecast for Historic Lake Effect Snow in Buffalo, NY
    description (click to show/hide)

Forecasting Aviation Icing: The Icing Event of 6 March 1996
    description (click to show/hide)

Initial Conditions & SREF Forecasts for 6-7 Jan. 2002 NE U.S.
Snowstorm
    description (click to show/hide)

return to top^

EUMETCAL – no winter weather module