

NOAA's NATIONAL WEATHER SERVICE Western Region Notes

February 9, 2006

REGIONAL DIRECTOR'S OFFICE



In Memory of Heidi Nelson: Heidi Nelson passed away on January 31, 2006 following a courageous battle with liver cancer.

Heidi joined the National Weather Service in August 2002 after 16 years with the Internal Revenue Service and Bureau of Reclamation. In her position with the NWS, she served as the Contracting Officer in the Administrative Management Division. Employees around the region got to know her well as she processed CD-435s and awarded contracts. She will be missed by all.

Heidi is survived by her husband Eric and daughters Whitney and Brooke, ages 13 and 11.



Two New Fellows: Congratulations to the newest Fellows of the American Meteorological Society (AMS): WR Director Vickie Nadolski and WFO Salt Lake MIC Larry Dunn.

New Fellows are elected each year by the AMS Council. In order to be eligible, nominees must be active members of the AMS and must have made outstanding contributions to the atmospheric or related oceanic or hydrologic sciences over a period of years. Less than two-tenths of 1 percent of all AMS Members are nominated for this honor.

Communication Corner

The Communication of Collaboration; Part I

By Brian Klimowski, WFO Flagstaff MIC

What's the difference between *coordination* and *collaboration*? Is the communication needed to establish successful collaboration different from that of coordination?

Consider this example: NWS Office "A" tells NWS Office "B" what they're going to be doing with their POP grids. Office "B" returns the favor and then tells Office "A" what they're going to be doing with their POP grids. Both offices continue on with their forecast preparation independently, toward their unique individual solutions. This is an example of simple *coordination*, the sharing of information based on common goals and shared responsibilities.

Now consider: NWS Office "A" tells NWS Office "B" what they're going to be doing with their POP grids. Office B then tells Office A what they're going to be doing with their POP grids. Based on this

information exchange, NWS Office “A” and “B” then work together to create new and better forecasts based on their shared insight into the issues at hand. Here we have *collaboration*; that is, working cooperatively beyond coordination to best accomplish the shared mission.

As illustrated above, collaboration is more than simple coordination; it involves work between groups or individuals with a shared sense of purpose, direction, and urgency. Perhaps the best way to illustrate the difference between coordinating and collaborating groups is that *collaborating groups serve as teams*; coordinating groups do not.

In successful coordination, there are basically two preconditions for success: **1)** shared objectives, and **2)** an understanding of the responsibilities of each party involved. The preconditions for successful *collaboration*, however, are more complicated and not as easily achieved as those for coordination. They include not only the two conditions above, but also: **3)** a sense of urgency (commitment); **4)** intellectual agility; **5)** a sense of belonging; **6)** open communication; **7)** mutual trust and respect; and **8)** complimentary and diverse skills and knowledge.

The WFO field offices are tasked with collaborating (or “teaming-up”) with each other in order to produce the best nation-wide forecast service possible. In the next installment of Communication Corner, we’ll explore what level, and what types of communication are needed to establish the basis for collaboration between NWS offices.

METEOROLOGICAL SERVICES DIVISION

Statement of the Week: Last weekend’s fast moving storm impacted a large portion of the region. Numerous warnings and follow up statements provided sufficient lead time for the public to prepare for this event. This week’s statement was a PNS from WFO Seattle summarizing the storm and its impacts. Summarizing a storm through SPSs, LSRs and PNSs is part of the public information exchange that lends credence to our warning program. A quick summary while the storm is still in everyone’s mind provides that extra service to the mass news media and decision makers to bring closure to the event. Nice job Seattle!

NOUS46 KSEW 052122
PNSSEW

PUBLIC INFORMATION STATEMENT
STORM SUMMARY
NATIONAL WEATHER SERVICE SEATTLE WA
122 PM PST SUN FEB 5 2006

..SUMMARY OF THE FEBRUARY 3-4 2006 WESTERN WASHINGTON STORM...

A STORM OVER THE EASTERN PACIFIC RAPIDLY INTENSIFIED ON THE 3RD AS IT HEADED TOWARD THE PACIFIC NORTHWEST. BY THE AFTERNOON OF THE 3RD...THE SURFACE LOW HAD DEEPEMED TO 970 MB. AS THE POWERFUL LOW APPROACHED WASHINGTON...HIGH WINDS DEVELOPED ON THE COAST DURING THE EVENING. A NATIONAL WEATHER SERVICE SPOTTER RECORDED 60 MPH WIND GUSTS AROUND 730 PM.

AS THE SURFACE LOW DEEPENED TO 968 MB DURING THE NIGHT...THE HIGH WINDS BECAME WIDESPREAD ON THE COAST AND OLYMPIC PENINSULA. THE HIGH WINDS DOWNED MANY TREES AND POWER LINES...KNOCKING OUT POWER TO A NUMBER OF RESIDENTS. A 78 MPH WIND GUST WAS RECORDED AT HURRICANE RIDGE.

IN ADDITION TO THE DEVELOPMENT OF HIGH WINDS...LARGE SWELLS BEGAN TO SLAM ONTO THE COAST. THIS RESULTED IN COASTAL FLOODING AND EROSION. SEAS EVENTUALLY REACHED 35 TO 40 FEET DURING THE MORNING OF THE 4TH...WITH SEVERAL BOATS BREAKING LOOSE FROM THEIR MOORINGS IN WESTPORT. ON THE COASTAL WATERS...STORM FORCE WINDS DEVELOPED DURING THE NIGHT OF THE 3RD AND PERSISTED INTO THE 4TH.

HEAVY RAIN ALSO DEVELOPED ON THE COAST AND THE OLYMPIC PENINSULA...WITH 3 TO 5 INCHES OF RAIN FALLING ON THE SOUTH FACING SLOPES OF THE OLYMPICS. THIS CAUSED THE SKOKOMISH RIVER IN MASON COUNTY TO RISE TO FLOOD STAGE...OR 16 FEET...EARLY ON THE 4TH.

DURING THE EARLY MORNING OF THE 4TH...HIGH WINDS DEVELOPED ACROSS THE NORTH AND SOUTHWEST INTERIORS. WINDS REACHED 68 MPH ON WHIDBEY ISLAND...65 MPH IN MONTESANO...AND 62 MPH IN BELLINGHAM. SIMILAR TO THE COAST...THE HIGH WINDS TOPPLED NUMEROUS TREES AND DOWNED POWER LINES. BY SUNRISE ON THE 4TH...OVER 100,000 PEOPLE IN WESTERN WASHINGTON WERE WITHOUT POWER. SATURATED SOILS FROM THE PROLONGED PERIOD OF WET WEATHER ONLY WORSENEED CONDITIONS BY MAKING IT EASIER FOR TREES TO TOPPLE.

BY MIDMORNING ON THE 4TH...HIGH WINDS HAD MOVED INTO THE PUGET SOUND...KITSAP PENINSULA...AND CASCADE FOOTHILLS. WINDS GUSTED TO 66 MPH AT WEST POINT...63 MPH IN EDMONDS...AND 58 MPH IN GOLD BAR. THE HIGH WINDS FORCED THE CLOSURE OF THE EVERGREEN POINT FLOATING BRIDGE FOR THE FIRST TIME IN SEVEN YEARS.

COASTAL FLOODING ALSO DEVELOPED IN THE PUGET SOUND ON THE 4TH AS ASTRONOMICAL HIGH TIDES COINCIDED WITH DEEP LOW PRESSURE. TO EXACERBATE THE PROBLEM...THE WAVES WERE DRIVEN ONSHORE BY GALE OR STORM FORCE WINDS. SOME HOMES WERE FLOODED IN WEST SEATTLE BY THE ABNORMALLY HIGH TIDES.

WHILE THE LOWLANDS WERE BEING BATTERED BY HIGH WINDS OR WAVES DURING THE MORNING OF THE 4TH...A BLIZZARD WAS BREWING IN THE CASCADES. THE COMBINATION OF HIGH WINDS AND SNOW MADE FOR ZERO VISIBILITY AT TIMES. THE MOUNT BAKER HIGHWAY WAS CLOSED DUE TO WHITEOUT CONDITIONS AND DOWNED TREES. FALLING TEMPERATURES AND VERY STRONG WINDS MADE FOR WIND CHILL READINGS IN THE SINGLE DIGITS AND TEENS. WINDS GUSTED TO 81 MPH IN PARADISE...60 MPH AT ALPENTAL...AND 45 MPH AT STAMPEDE PASS.

WINDS STARTED WINDING DOWN DURING THE AFTERNOON OF THE 4TH AS THE WEAKENING...BUT STILL STRONG...STORM SYSTEM MOVED INTO EASTERN

WASHINGTON. BY MIDNIGHT FEBRUARY 5TH...THE WEATHER ACROSS WESTERN WASHINGTON HAD SETTLED DOWN NOTICEABLY.

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WEATHER.GOV/SEATTLE



Paul Flatt, WFO Boise WCM, is interviewed by Michael Rogers.

TV Station Meteorologist Visits Boise Office: On January 25, WFO Boise hosted visitors from a Twin Falls TV station, who were given a tour of the office. Meteorologists from TV stations around the area are periodically invited to the office to continue building a positive relationship with the local media. On this visit, Michael Rogers, meteorologist with Twin Falls TV Station KMVT, even sat in on the weekly SOO conference call, which focused on the active weather pattern and developing La-Nina expected to bring stormy conditions and heavy snow to portions of Idaho. After the SOO conference call, Paul Flatt and Jay Breidenbach gave interviews about specific impacts to Idaho and the potential for flooding in the spring when the above normal snow pack melts.



(L to R): Dr. Konstantine Georgakakos, Director HR; Steve Taylor, HRC; Eylon Shamir, HRC; Jim Purpura, SGX; Brandt Maxwell, SGX; Ed Clark, SGX; Ivory Small, SGX; Miguel Miller, SGX; Eric Meins, HRC; Bob Jubach, HRC; and Nic Graham, HRC.

WFO San Diego LIFT Activities: WFO San Diego kicked off its first local LIFT activity with a visit to the Hydrologic Research Center (HRC) in San Diego. Regional LIFT participant Brandt Maxwell arranged the visit. This was done as a networking activity with the local meteorological community in San Diego. A follow-up activity is being planned to have an office LIFT discussion on networking as a leadership trait.

The HRC was established in 1993 as a public benefit, non-profit research corporation. HRC works closely with Scripps Institute of Oceanography in La Jolla. Its research is funded by NOAA and other agencies such as NASA, National Science Foundation, the U.S. Bureau of Reclamation, and the United Nations. The WFO San Diego staff saw presentations on various topics in operational research being conducted by HRC, and preliminary

discussions began on how the offices could learn from each other.

Leadership Pocatello Class Tours National Weather Service Office: On January 26, the Chamber of Commerce Leadership Pocatello class visited the National Weather Service. WFO Pocatello MIC James Meyer shared basic information about the National Weather Service and expressed how important community involvement and participation is among our agency. The class was invited to join in on the daily briefing, where meteorologists, Dawn Harmon and Bill Wojcik explained normal operations and gave a detailed forecast.

The Greater Pocatello Chamber of Commerce is pursuing leaders for the future. The growth of the community depends on leaders, which is why the Leadership Pocatello Program was developed. The program accepts applicants from individuals within the community, who desire to succeed, grow and develop stronger leadership skills. Donna Mills, ASA at WFO Pocatello is currently in the class. The experience is loaded with opportunities to expose the NWS in a diversified environment and to apply leadership skills. The program has been so rewarding the WFO Pocatello is looking into using this type of program as a “local LIFT” and offering it to other employees in the office.



Met Intern Katie Burtis provides information to a local rancher at the Agriculture Expo.

Pocatello Hosts Booth at Eastern Idaho Ag Expo: WFO Pocatello hosted a booth at this year’s Eastern Idaho Agriculture Expo.

SOO Dean Hazen, ITO Bill Snyder, General Forecaster Jack Messick, ET Bryan Tilly, Met Intern Katie Burtis, and WCM Vernon Preston provided various NWS brochures to ranchers and farmers across the Pacific Northwest. Many attendees were familiar with NWS products and use our web page daily for decision making. Several ideas on making web pages better were received, which the office plans to implement. A safety message was included in the official program which went to over 2000 attendees.



San Francisco Boat Show: WFO Monterey supported a joint NOAA venture at the Fred Hall Boat Show in January in San Francisco.

(L to R) Scott Kennedy (General Forecaster from WFO Monterey) is shown here with Marty Golden (Pacific Recreational Fisheries Coordinator from NMFS in Long Beach, CA).



Paul Flatt and Jay Breidenbach describe tornadoes using the "Tornado in a Box".

Boise Supports “JASON” Expedition 2006: On January 30 and February 1, WFO Boise participated in the “JASON Expedition 2006: Mysteries of Earth and Mars”. Over 220 middle school students, parents, and teachers from around the Treasure Valley were given a presentation titled "Atmospheric Mysteries on Mars Explained on Earth". Students were shown evidence of dust devils on Mars along with a discussion on polar ice caps and storms on Mars. Students were engaged to discuss the similarities with Martian storms and similar storms on Earth. The presentation culminated with a "Tornado in a Box" demonstration.



Intern Todd Foisy talks to a participant

Great Rockies Sports Show: WFO Billings staffed a booth at the Great Rockies Sports Show at Billings Metra Park on January 20-22.

Approximately 10,000 people from Montana and Wyoming attended the show. The booth focused on NWS products and services on the web, as well as the expanded NWR network in Eastern Montana. More information about the show can be found at: www.greatrockiesshow.com/Billings/index.htm



WFO Pendleton's Employee of the Quarter: The Employee of the Quarter for October through December 2005 is Senior Forecaster Mary Smith. Mary is an excellent leader and sets a good example for the rest of the staff when serving as shift supervisor. She is always willing to help out whenever and wherever needed. On several occasions during Pendleton's recent staff shortage, Mary was called upon to cover shifts on short notice. Mary is definitely a team player. She has issued several excellent forecasts and warnings during this year's very active fall/early winter season. Mary does a great job as Schedule and

Service Backup Focal Points, and recently became the station's new Diversity Focal Point. She also did an excellent job creating a comprehensive "worst case scenario drill" to better prepare the staff for low probability high impact events. Congratulations, Mary, on a job well done!

WFO Monterey Begins New Forecast Developed with the Marine Community: WFO Monterey has developed the San Francisco Bar Forecast, which is in the experimental stage with the Marine Users Group (MUG). The San Francisco Bar is located outside the Golden Gate Bridge and is considered one of the most dangerous areas for mariners, with several fatalities and numerous boats lost each year in the rough conditions. Breakers greater than 25 feet are not uncommon in this area.

The Marine Users Group was formed to help meet the needs of mariners, from Yacht Racers to commercial fishermen. The members include commercial fishermen, tour boat operators, yacht racers, commercial bar pilots, and the U.S. Coast Guard. The MUG has also redefined the seas criteria for Small Craft Advisories. The new forecast and new criteria can be seen on the WFO Monterey homepage under news and notes.



Monterey Forecasters Visit Carmel School: General Forecaster Carolina Horne and Met Intern Brooke Bingaman recently visited the Carmel River Elementary School in Carmel, CA. They provided an overview of Weather 101 for Central California and spoke about the role of the National Weather Service.

HYDROLOGY AND CLIMATE SERVICES DIVISION

NowDATA available to the public: NowDATA, which is the public version of Applied Climate Information System (xmACIS), is now available to the public via all WFO websites. There is nothing required of the WFOs to implement NowData. NowData can be found in the climate section on all WFO webpages as the last tab, titled "NowData."

Hydrologic Sediment Conference: The Eighth Federal Interagency Sedimentation Conference and Third Federal Interagency Hydrologic Modeling Conference will be held jointly on April 2-6, 2006 at the Silver Legacy Hotel in Reno, NV. The joint conference will provide Federal and non-Federal scientists with the opportunity to discuss recent accomplishment and progress in research and technical developments in the physical, chemical, and biological aspects of sedimentation and the development and use of models addressing surface water quality and quantity issues.

On-line registration is now available at <http://www.jfic.org>. Registration is \$390 before March 1 and \$435 after March 1. Registration for single-day attendance is also available.

SCIENTIFIC SERVICES DIVISION

Required Training Reminder: The following regional training deadlines are:

COMET Module: NWS Support During Hazardous Materials Emergencies

Due: April 30, 2006

The COMET module is available through the NOAA E-Learning system at <http://e-learning.doc.gov/noaa/>.

Bi Annual SOO/DOH Professional Training Report/Plan and Intern Reports

Due: April 30, 2006

We will be simplifying this report. Guidance will be sent by March 15.

One Spring WES Training Case

Due: June 1, 2006

A spring WES TA-Lite is **not** required. Allow time to finish COMET module, launch the AWOC Winter track, and prepare for spring/summer severe weather.

AWOC Winter Track Facilitator TeleTraining

late April to early June 2006

AWOC Winter Track

Due: November 30, 2006

Begins June 2006. **No** local fall WES case studies or TA-Lite are required.

USGS Debris Flow Handouts: SSD distributed two USGS circulars to all WR field offices that describe the joint NOAA / USGS demonstration projects in southern California taking place this winter season. The circulars are titled "A NOAA-USGS Demonstration Flash Flood and Debris Flow Early Warning System" and "Southern California Wildfires and Debris Flows." Additional copies may be requested through WR/SSD.

WR Gridded Verification: SSD has been working on gridded IFPS verification project that we hope can be used to improve the forecast process. To date, SSD has presented a drafted plan at several WR forums to gather input. Based on input, we have modified the proposal and are now working the proposal through regional IFPS decision process. The main components of the project are:

Step 1) MatchObsAll

- Draft WR-Mod Note - Mesowest.
- Draft WR- Mod Note - MatchObsAll.

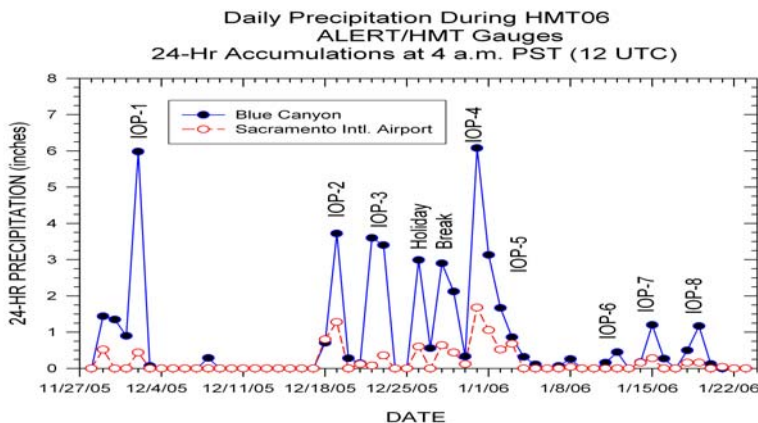
Step 2) QC Tool Installation

- Draft WR- Mod Note

Step 3) BOIVerify Tool Installation

- Draft WR-Mod Note
- Presentation: Intro training for the BOIVerify tool
- Presentation: Generating some simple Impact Statistics using BOIVerify tool

Plus a roll out plan and initial kick-off. You will be hearing more about this effort over the next few months as the proposal makes it way through the IFPS decision process.



HMT Update: The OAR Hydromet Test-bed (HMT) is currently completing the 11th Intensive Operating Period (IOP). So far, the HMT has captured several impressive meteorological and hydrological events on the American River near Sacramento. The graph depicts precipitation amounts at Blue Canyon (located in the Sierras between Reno and Sacramento) and the Sacramento Airport ASOS versus the first 8 IOPs. For more information and data: <http://www.etl.noaa.gov/programs/2006/hmt/>

AWIPS Upcoming Builds: AWIPS OB7 will be deployed in two stages, OB7.1 and OB7.2, with their respective deployment dates currently scheduled for late summer/fall 2006 and winter 2006/2007. The AWIPS Software Recommendation and Evaluation Committee (SREC) is gearing up to coordinate the software contents of AWIPS OB8. Requests for OB8 enhancements will be finalized by April 2006. The OB requirements process also is being merged into the NWSHQ OSIP process. With all of the new processes, SSD will try to share proposed OB lists to the extent these list are shared with us. If you have suggestions, please get them to Mark Mollner as soon as possible.

Upcoming Science Workshops

Pacific Northwest Weather Workshop - March 3-4: The Pacific Northwest Weather Workshop will be held Friday and Saturday, March 3 and 4, 2006, at the NOAA Western Regional Center campus at Sand Point in Seattle, Washington. You are encouraged you to visit the web site at: www.atmos.washington.edu/~cliff/PNW2006.html for latest information and on-line registration. For more information contact:

Brad Colman
NWS Forecast Office
206.526.6095 x 224/222
brad.colman@noaa.gov

Clifford Mass
Univ. of Washington
Dept of Atmospheric Sciences
Box 351640, Seattle WA 98195
206.685.0190, cliff@atmos.washington.edu

Climate Prediction Applications Science Workshop – March 21-24: The National Weather Service Climate Services Division, in conjunction with the University of Arizona Climate Assessment for the Southwest and Arizona Cooperative Extension is hosting the Fourth Climate Prediction Applications Science Workshop (CPASW) at the Westward Look Resort in Tucson, Arizona, on March 21-24, 2006. <http://cals.arizona.edu/climate/CPASW2006/index.htm>

New WR Science Publications

Technical Attachments

WR TA 06-01

Microphysical Processes and the Reno Snowstorm of March 1st, 2003

Brian Brong, WFO Reno, NV

<http://www.wrh.noaa.gov/wrh/06TAs/ta0601.pdf>

WR TA 06-02

Inside Sliders. Part I: Their Features and Their Effects on the Sierra Front of Western Nevada

Jim Wallmann, WFO Reno, NV

<http://www.wrh.noaa.gov/wrh/06TAs/ta0602.pdf>

WR TA 06-03

Inside Sliders. Part II: Model Forecasts for Inside Sliders and Their Biases

Jim Wallman, WFO Reno, NV

<http://www.wrh.noaa.gov/wrh/06TAs/ta0603.pdf>

WR TA 06-04

A Quantitative Approach to Flash Flood Prediction in Southern Utah

M.M. Hurwitz, C.V. Gibson, M. Jackson, B. McInerney, WFO Salt Lake City, UT

<http://www.wrh.noaa.gov/wrh/06TAs/ta0604.pdf>

WR TA 06-05

Unexpected Widespread Rain over South-Central Arizona on 4 December 2004

Doug Green, WFO Phoenix, AZ

<http://www.wrh.noaa.gov/wrh/06TAs/ta0605.pdf>

TA-Lites**WR TA-Lite 06-01**

To Forecast or Not: LIFR or IFR - Forecasting Fog/Stratus on 20-21 October 2005

Clinton Rockey, WFO Portland, OR

<http://www.wrh.noaa.gov/wrh/talite0601.pdf>

WR TA-Lite 06-02

An Inside Slider with Very Low Elevation Snow and High Winds in Extreme Southwestern California

Ivory J. Small and Daniel V. Atkin, WFO San Diego, CA

<http://www.wrh.noaa.gov/wrh/talite0602.pdf>

WR TA-Lite 06-03

A Complex Terrain Induced Heavy Snow Event in Southeast Idaho

Jeffrey R. Hedges and Katie Burtis, WFO Pocatello, ID

<http://www.wrh.noaa.gov/wrh/talite0603.pdf>

WR TA-Lite 06-04

Frontogenesis, Conditional Symmetric Instability, and Microphysics: A Rare Desert Snow Event

Heather Orow and Stanley Czyzyk, WFO Las Vegas, NV

<http://www.wrh.noaa.gov/wrh/talite0604.pdf>

WR TA-Lite 06-05

Winter WES Case in Northeastern Montana with Changes in Weather by Elevation

Tanja E. Fransen and Thomas L. Salem Jr, WFO Glasow, MT

<http://www.wrh.noaa.gov/wrh/talite0605.pdf>

WR TA-Lite 06-06

Instability Enhancement of a Winter Storm

Ron Miller, WFO Spokane, WA

<http://www.wrh.noaa.gov/wrh/talite0606.pdf>

WR TA-Lite 06-07

A WES Case Analysis of a Columbia Basin Dust Storm

Alan Polan and Jon Mittelstadt, WFO Pendleton, OR

<http://www.wrh.noaa.gov/wrh/talite0607.pdf>

WR TA-Lite 06-08

An Extended Winter Fog Event in Arizona's Little Colorado River Valley

Robert Bohlin, WFO Flagstaff, AZ

<http://www.wrh.noaa.gov/wrh/talite0608.pdf>

WR TA-Lite 06-09

Poor GFS Model MOS Performance...Is It Predictable?

Rick Holtz and Dennis Gettman, WFO Medford, OR

<http://www.wrh.noaa.gov/wrh/talite0609.pdf>

Training Update

NWSTC Update: If you sign up for a NWSTC course and are selected, it is important that you attend as planned. Training resources are extremely limited and people selected for training should plan well in advance on attending the course.

If there are extra-ordinary reasons (i.e. unexpected major illness in family) that develop that will affect your attendance, you must notify your MIC/HIC and WRHQ (Mark Mollner) as soon as possible. This will allow time to fill the slot, but again, this should only be a rare case.

COMET Module: Comet has released two new training modules:

Unit Hydrograph Theory: The module may be found at: <http://www.meted.ucar.edu/hydro/basic/UnitHydrograph/index.htm> and requires approximately 1-2 hours to complete.

Wave Life Cycle II: Propagation and Dispersion: The module is approximately 60 minutes in length and may be found at: http://meted.ucar.edu/marine/mod3_wlc_propdis/index.htm

WDTB AWOC: The AWOC Winter Track curriculum has **not** yet been posted to the WDTB home page: <http://www.wdtb.noaa.gov/courses/winterawoc/index.html>. The course will be posted to the LMS home page by late Spring with facilitator teletraining beginning by April 2006.

Teletraining Sessions for February: The Virtual Institute for Satellite Integration Training (VISIT) calendar for February is now available. Offices can register for the teletraining sessions by sending email to: visit@comet.ucar.edu. The teletraining calendar is now at: <http://rammb.cira.colostate.edu/visit/ecal.asp>

The teletraining planning calendar with other sessions is at: <http://rammb.cira.colostate.edu/visit/planning.html>

The current sessions planned for February are:

- NEW - GOES Sounder Data and Products
(Basic, Feb 3,6,15,20,28)
- GOES High Density Winds
(Basic, Feb 9)
- Cyclogenesis: Analysis utilizing Geostationary Satellite Imagery
(Basic, Feb 2,15)
- Utilizing GOES Imagery within AWIPS to Forecast Winter Storms
(Intermediate, Feb 7,8)
- Forecasting Convective Downburst Potential Using GOES Sounder Derived Products
(Basic, Feb 9)

Several recorded VISIT session are available via LMS: <http://e-learning.doc.gov/coursecatalog/index.cfm>. Then, go to National Weather Service Courses and

search on VISIT.

All previous sessions including those with recorded instructor audio and annotations are available at: <http://rammb.cira.colostate.edu/visit/ts.html>

SYSTEMS OPERATIONS DIVISION

SOD: The SOD RMS-FET Conference was held in Reno on February 7-9. Topics included Meyer Briggs (MBTI), Expectations, Planning, EMRS, Safety, Procurement, and Lift Leadership.

Communications: Steve Keene just completed the system & voice mail phone upgrade at WFO Boise. WFO Elko is the next office for the phone system upgrade and has been scheduled for February 23 - 28. This makes 4 phone system upgrades to date (SLC, BOI, PIH).

Electronics: Joe Lachacz and Sean Wink completed an electronics and Facilities program review at the WFO in Elko.

Facilities: WRH computer room expansion project has begun. The west wall is being moved to make room for two additional computer racks.