

NOAA Technical Memorandum NWS SR-126

SUMMARY OF PAPERS, STUDIES,  
CONFERENCE PRESENTATIONS: 1987-1988

Scientific Services Division  
Fort Worth, Texas

Scientific Services Division  
Southern Region  
Fort Worth, Texas  
September 1989

UNITED STATES  
DEPARTMENT OF COMMERCE  
Robert A. Mosbacher, Secretary

National Oceanic and Atmospheric Administration  
John A. Knauss  
Under Secretary and Administrator

National Weather Service  
Elbert W. Friday  
Assistant Administrator





## Foreword

This Technical Memorandum is a summary of information provided by NWS Southern Region offices. It lists publications, technical presentations and local studies undertaken or accomplished in the Region during 1987 and 1988. With over 200 entries, it is an impressive list.

Many employees are actively involved in developmental studies, including original research on local forecast problems. The number of studies listed under the category of "Conferences and Workshops: Outside Agencies and Organizations" demonstrates their efforts toward sharing the results of their work with other meteorologists. From this sharing of ideas have come new techniques for improved analysis and forecasting, at NWS offices around the country, and among other NOAA or outside agencies.

It is clear that NWS employees are dedicated to enhancing the science of meteorology. This is especially noteworthy when it is considered that much of the work involved in local studies or preparation of conference and workshop presentations is carried out at home over kitchen tables.

This Technical Memorandum is the first in a projected annual series of summaries of such studies. It is hoped this list will stimulate additional work and facilitate the interaction of those interested in specific areas which have been, or are being, worked on. Individuals interested in further information about any of the studies listed are encouraged to contact the authors.



Robert C. Landis  
Regional Director



Summary of Papers, Studies, Conference Presentations: 1987-1988

Scientific Services Division  
Fort Worth, Texas

Journal Publications:

The Behavior of Cloud Drops in an Acoustic Field: A Numerical Investigation (Mike Foster [SR/SSD], J. Geophys. Res., Jan 88)

Synoptic Climatology of Blowing Dust on the Texas South Plains (Ken Wigner [LBB], J. of Arid Environments, Nov 87)

The Synoptic and Subsynchronous Structure of a Long-Lived Severe Convective System (Mike Branick [OUN], et al., Mon. Wea. Rev., Jun 88)

Combination of MDR and GOES IR for Real-Time Display of Rainfall Intensity (Dan Smith [SR/SSD], et al., J. Cli. and Appl. Met., Aug 87)

Agricultural Drought in the Mid-South: 1986 (Ray Wolf [STN/AWSC], Nat. Wea. Dig., Dec 1987)

Migration/Transport of the Green Cloverworm (Ray Wolf [STN/AWSC], Environmental Entomology, 1987)

Professional Society-Technical Conferences

AMS 15th Conf on Severe Local Storms:

A Proposed Advanced Storm Spotter's Training Program (Al Moller [FTW] - received "Best Graphics Award")

The Use of Surface and RADAP II Data to Derive Short-Term Hail Prediction Equations (Jackson and Crawford [OUN])

Detailed Observations of a Splitting (Low Precipitation) Severe Storm and Its Evolution Into a Super Cell (Gary Woodall [MAF])

Merging Satellite and Surface Derived Fields for the Nowcasting of Intense Convection (Bothwell [SSD])

Analysis of a Capping Inversion as an Aid in Defining the Severe Weather Threat Area (Bothwell)

Spatial and Temporal Bandpass Surface Fields from the Pre-STORM Mesonet: 2-3 June 1985 (Don Hawkins [PBI])

AMS 7th Conf. on Hydrometeorology:

A Categorical, Event-Oriented, Flood Forecast Verification System  
(Dave Morris [WGRFC])

Synoptic Climatology of Heavy Rainfall Events in Louisiana (Alan  
Johnson, Ed Mortimer and Henry Lau [SIL])

On the Design of an Optimum Rain Gauge Network to Support Tulsa's  
Flash Flood Monitoring System: Implications for the NEXRAD Era  
(Crawford and Andra [OUN])

NWA Annual Meeting (Denver):

A PC Verification Program for Use at WSOs (Walter Snell [MGM])

Climatology of Arctic Outbreaks in Louisiana (Mortimer [ABQ])

24th AMS Conf. on Radar Meteorology (Mar 1989):

Introduction to WSFO Miami's Lightning Project Through the  
Examination of a Severe Weather Event (Biedinger and Stern [MIA],  
accepted for presentation)

Doppler Radar Operations at WSO Montgomery, AL (Pettit [MGM], accepted  
for presentation)

DOPLIGHT '87: Application of Doppler Radar Technology in a National  
Weather Service Office (Larry Mooney [OUN], et al., accepted for  
presentation)

17th AMS Conf. on Hurricanes and Tropical Meteorology (Apr 1987):

Miami, Florida - A Single Station Predictor of the Upcoming Hurricane  
Season in the United States? (Paul Hebert [MIA])

18th AMS Conf. on Hurricanes and Tropical Meteorology (May 1989):

Use of Water Vapor Imagery in Forecasting Hurricane Motion (Jim Lushine  
[MIA], accepted for presentation)

An Apparent Relationship Between the Primary (22 yr) and Secondary  
(100 yr) Sunspot Cycles and Major (greater than 100 kts) Hurricane  
Landfalls in the United States (Paul Hebert [MIA], accepted for  
presentation)

AGU Fall Meeting (Dec 88):

Relationship of Lightning to a Severe Weather Event in Southeast  
Florida (Ray Biedinger [MIA])

19th AMS Conf. on Agricultural and Forest Meteorology (Mar 1989):

AgMOS: Operational Forecasts for Agriculture Using Model Output Statistics (Rodger Getz and Karl Harker [AUB/AWSC])

Conferences/Workshops:

Outside Agencies/Organizations:

Qualitative and Theoretical Analyses of a Helical Vortex in a Laboratory Simulation (Lans Rothfus [OUN], Workshop on Geophysical Columnar Vortices, Purdue Univ., Nov 1988)

A Solar-Strobe Photographic Technique Used in the New Oklahoma University Tornado Vortex Chamber (Lans Rothfus [OUN], Workshop on Geophysical Columnar Vortices, Purdue Univ., Nov 1988)

The Impact of New Technologies on NWS Operations and Services at Oklahoma City, Oklahoma (Larry Mooney [OUN], AMS Short Course on Radar and Satellite Data Applications to Mesoscale Meteorology, Jun 1988)

Joint Forecast and Research Activities at the NWS in Norman (Kenneth Crawford [OUN], NSF, Center for the Analysis and Prediction of Storms, Jun 1988)

An Overview of the Wintertime Temperatures in the Farming Areas of Dade County, Florida (Ray Biedinger [MIA], Dade County Cold Protection Workshop, Nov 1987)

Operational Thunderstorm Forecasting/Monitoring (Paul Hebert [MIA], Shuttle Flight Rule Workshop on Entry Precipitation and Thunderstorm Criteria, Oct 1987)

Summary of West Memphis Tornado (Ric Coleman [MEM], Natural Hazards Workshop, Boulder, July 1988)

Flood Warning Systems - The Basic Elements (Dave Helms [SERFC], Hazard Mapping Meeting of Experts, Kingston, Jamaica, Nov 1987)

Low Flow River Forecasting Using the National Weather Service Extended Streamflow Prediction Model (Dave Helms [SERFC], South Carolina Water Resources Commission Conference, Apr 1988)

The Effect of Clearcutting on Chemical Exports in Lateral Flow from Differing Soil Depths on a Subalpine Forested Slope (M.A. Nilles [LMRFC], et al., IAHS-AISH Vancouver Symposium on Forest Hydrology and Watershed Management, Aug 1987)

Hurricane Experience Levels of the Coastal Population: An Updated Analysis (Paul Hebert [MIA], 9th Annual National Hurricane Conference, Apr 1987)

Meteorological Considerations for Local Emergency Management Actions (Paul Hebert [MIA], 10th Annual National Hurricane Conference, Apr 1988)

Slosh Model Application (Mike Koziara [SIL], LEPA Meeting presentation [Alexandria LA], Aug 1988)

Mutual Problem Areas and Emergency Communication During Hurricanes (Mike Koziara [SIL], LEPA Meeting presentation [Alexandria LA], May 1987)

Meteorology of Thunderstorms (Alan Moller [FTW], Joint NCAR/ALPA Weather Avoidance Conference, Jan 1987)

Thunderstorm Spectrum and Microburst Potential for Four Basic Thunderstorm Types (Alan Moller [FTW], Aviation Weather Conference, Dec 1987)

Severe Downburst Potential (Bill Read [FTW], Aviation Weather Conference, Dec 1987)

Presentation on "Severe Weather" (Alan Moller [FTW], TV Weathercaster Workshop, Norman OK, Mar 1988)

Presentation on "Advanced Storm Spotting" (Alan Moller [FTW], Severe Weather Seminar, Minneapolis, Mar 1988)

Agricultural Weather Services for Mississippi (Ray Wolf [STN/AWSC], Proceedings Delta Irrigation Workshop, 1988)

Overview of AWSC CLL Climate-Related Products (Michael Flynn [CLL/AWSC], Regional State Climatologists Meeting, Baton Rouge, Nov 1987)

AWSC CLL Services to Agriculture and a Look at the 30/90 Day Outlooks (Michael Flynn [CLL/AWSC], Texas Fruit Growers Assn., Oct 1987)

Alabama Agricultural Weather Program for the Horticultural Industry - Reflections of 1988 and Improvements for 1989 (Rodger Getz [AUB/AWSC], Fruit and Vegetable Growers Meeting, Auburn, Nov 1988)

Short-Term Climate Trends and the Management of Irrigation in Alabama (Rodger Getz [AUB/AWSC], Irrigation Conference, Montgomery, Nov 1988)

Climate Changes and the Effect on Alabama Agriculture (Rodger Getz [AUB/AWSC], 15th Annual Agricultural Leadership Conf., Dothan, Nov 1988)

Agricultural Weather Services: Present and Future (Ric Coleman [MEM], Tennessee Horticultural Society, Nashville, Feb 1988)

Thunderstorms and Icing (John White [CWSU MEM], Presentation to Northwest Airlinck, Memphis, Sep 1987)

"Operation Rain Check" (John White [CWSU MEM], Presentations to ARTCC, Memphis, Oct 1988)

Weather Hazards (Robert Brines [CWSU MEM], Presentation to Civil Air Patrol, Memphis, Feb 1988)

National Weather Service Sponsored:

3rd Annual Arizona Severe Weather Symposium, Jun 1988 -

Oklahoma Perspectives: Evaluation of an Experimental Forecast Center (Crawford [OUN])

Convective Weather Seminar, WSFO Norman, Feb 1988 -

Assessing Instability/Thermodynamics (Dennis Noble [OUN])

Summary of Pertinent AFOS Applications Programs (Gary Szatkowski [OUN])

Mesoscale Analysis: Getting Your Hands in the Data and the Data in Your Mind (Mike Branick [OUN])

Winter Weather Workshop, WSFO Raleigh, Sep 1988 -

Papers presented by Ed Mortimer, Alan Johnson and Henry Lau (SIL)  
Frank Makosky and John Hoffner (BHM)  
Jim Noffsinger and John Laing (ATL)

Heavy Rain Workshop, Feb 1987

North Texas Heavy Rain Associated with 500mb Closed Lows (Buddy McIntyre [FTW])

Heavy Rain Workshop, Monterey, CA, Mar 1989

Utilizing ADAP in Forecasting Excessive Rainfall in Central Louisiana (Henry Lau and Mike Koziara [SIL])

Additional Southern Region WSFO Workshops -

Variety of input/participation from local and visiting forecasters (and ERL/university scientists) at workshops held by:

WSFO Atlanta (Winter Weather)

WSFO San Antonio (Aviation Forecasting [Downbursts])

WSFO Jackson (Severe Storms [Downbursts])

Technical Memoranda:

Forecasting Convection with the AFOS Data Analysis Programs:  
ADAP-Version 2.0 (Bothwell [SR/SSD], NOAA TM NWS SR-122, Mar 1988)

Upper-Air Analyses and Quasi-Geostrophic Diagnostics for PCs (Mike Foster [SR/SSD], SR TM in preparation)

A Categorical, Event-Oriented, Flood Forecast Verification System for NWS Hydrology (Morris [FWR], NWSH/OH TM in preparation)

DOPLIGHT '87 PROJECT SUMMARY (Larry Mooney [OUN], et al., NOAA TM ERL NSSL-101, May 1988)

Observed Microbursts in the NWS Southern Region During 1986 - Four Case Studies (Chris Sohl [FTW], William Read [FTW], Michael Branick [OUN], Joseph Lowery and Christopher Jansen [MEM], NOAA TM NWS SR-121, Apr 1987)

Miscellaneous:

Introduction to Numerical Weather Prediction Models at the NMC (produced in cooperation with NWSH and Fred Carr [University of Oklahoma])

A Field Guide for Back-Up RAOBs Using a PC (Tom May [ABQ], in preparation)

National Weather Service Provides Agricultural Weather Conditions and Outlooks (Ray Wolf [STN/AWSC], Tennessee Farm Bureau News, 1987)

Drought: A Historical Perspective (Michael Flynn [CLL/AWSC], submitted for publication, Texas Farmer-Stockman Magazine, Nov 1988)

Marine Weather Course for High School Teachers (Presented by Nick Scott and Staff [WSO VCT], UT Marine Science Institute, Port Aransas, 1988)

First Freeze Nearing (Michael Flynn [CLL/AWSC], Texas Agricultural Extension Service News, Nov 1988)

A Sacramento Model-Based Flash Flood Guidance Package (Tom Baumgardner [LMRFC], NWS River Forecast System Users Manual, Vol. X, Chap. 2.1)

Georgia/Alabama Experiment Station Publications (AWSC AUB):

1986 Georgia Ag Exp Station Weather Data (David Ihle)

1987 Georgia Ag Exp Station Weather Data (David Ihle)

1986 Alabama Ag Exp Station Weather Data (David Ihle)

1987 Alabama Ag Exp Station Weather data (David Ihle)

Degree-Day Maps for Management of Soybean Insects in Alabama (Getz)

A Microcomputer-based Weather Simulator for the Soybean and Peanut Growing Regions of Alabama (Getz, co-author)

University of Georgia Automated Weather Station Network (Getz)

Local Studies and Significant Weather Event Reviews:

(Some of the following may be included in Technical Attachment lists)

WSFO OUN --

Winter Storm in Oklahoma: Dec 13-15, 1987 (John Victory)

The Use of Computer-Generated Radar Data in a Warning Situation: Some Pros and Cons During the Night of Sep 27-28, 1987 (Ken Huckabee and Liz Quoetone)

The Excessive Rainfall Event of Sep 27-28, 1987 (Dennis Noble)

The Christmas Weekend Ice Storm of 1987 (Mike Branick)

WSFO MEM --

West Memphis Tornado (Mike Looney)

December 23-27, 1987, Heavy Rain/Flood (Jim Duke)

January 19, 1987, DeSoto County Tornado (Jim Duke)

April Wind Event (Rick Hiltbrand [TRI])

Comparison of Winter/Summer Temperatures - Mountain City TN vs. Tri-Cities Airport (R. Hiltbrand [TRI])

Comparison of Annual Temperature - Mountain City TN vs. Tri-Cities Airport (R. Hiltbrand [TRI])

Linear Regression of Wind CSV/ROA/TRI (R. Hiltbrand [TRI])

Regression of Nashville Fogs vs. Winter Snow Events, 1950-1986 (R. Boyd [BNA])

Winter-Type Precipitation Predictor Model for Nashville - Four Predictor Model (R. Boyd [BNA])

VIP-5 Height Predictor Model (R. Boyd [BNA])

Six-Predictor Snow Forecasting Model - POP & QPF (R. Boyd [BNA])

Local Computer Software (Howard Waldron [CWSU MEM])

- Interactive Climatic Database for Tennessee
- CWSU Automated Self Briefing Program
- FT/FD Collector Program for CWSUs
- Microcomputer-Based PAR Program

Aviation Hazards of Convective Weather (Local Seminar, D. C. McIntosh [CWSU MEM])

Microcomputer Approaches to Forestry Weather Services (Local Seminar, W. G. Adams)

## WSFO ATL --

Isentropic Analysis of an East Coast Wedge (Gary Beeley)

LFM-MOS vs. NGM-Perfect Prog: Some Observations on Temperature Predictions (Terry Murphy)

The Hydrologic Program at the National Weather Service, Atlanta, Georgia (Russell Pfost)

A Look at the July, 1986, Temperatures While Having Some Fun With Statistical Techniques (David Sharp [CSG])

Wind Rose for Columbus, GA, 1980-1984 (David Sharp and Woodrow Vines [CSG])

FAA Radar Remote - What We Don't See (Howard Bookman)

Radar DVIP Levels Reported in ROBS vs. Paper Overlays During 1985-1986 (B.J. Smith and David Travis [AHN])

Comparison of Lines Observed on Radar Film vs. Number Reported: Apr-Sep, 1987 (Michael Barry and B.J. Smith [AHN])

## WSFO MIA --

Severe Turbulence Aboard Pan Am Flight 217 (Andy Stern)

Madison, Florida, Tornado (Jim Lushine)

A Lightning Work Station Program for the Miami National Weather Service Forecast Office (Andrew Stern)

Study of Chaff Using RADAP Output (Charlie Paxton [TBW])

Severe Weather Event of April 30, 1988 (Charlie Paxton [TBW])

Tornado/Severe Weather Analysis Using RADAP Data (Charlie Paxton [TBW])

Computer Program to Archive Data for Case Studies (Reed Hawkins [PBI])

Study of Severe Weather as it Relates to the Equilibrium Level (Wayne Snyder [DAB])

## WSFO LBB --

Agricultural/Climatological Programs for Use on the Apple II (Ken Wigner)

Saragosa, TX, Tornado (published in Storm Track)

Armageddon Plus 1: The Saragosa Update (John Wright [MAF])

West Lubbock County Tornadoes (published in Storm Track)  
 Communicating Effectively With and Through the Mass Media (WPM  
 Conference paper)

Texts for A/V Preparedness Program (Bill Alexander):  
 An Introduction to Spotter Training  
 Advanced Principles of Storm Spotting  
 Chronic Ailments of the Warning and Preparedness Program.

Heavy Snow Episodes in West Texas (co-op student)

Local software [WSO MAF]:  
 Barograph Comparative Program  
 Hand-Held Calculator Program for Surface Obs  
 Helicity Analysis and Forecast Program

WSFO SAT --

Severe Weather Handbook: Operational Forecast Procedures (Larry Eblen)  
 An Introductory Look at the South Texas Downburst  
 Texas Summertime Seabreeze Study (Synoptic Climatology)

WSFO ABQ --

April 1988 Severe Thunderstorm Outbreak in New Mexico (Morris Webb)  
 Climatology of Arctic Outbreaks in Louisiana (Ed Mortimer [while at  
 WSFO SIL] ... NWA Award "Outstanding Local Research Project During  
 1988")  
 Flash flood and downburst studies (Charlie Liles)  
 Winter weather studies (Barbara McNaught)

WSFO LIT --

Correlation of stability parameters with actual convective events John  
 McLeod)  
 Compilation of daily record max/min temperatures and daily record  
 precip for station climat library (Richard Ogden)  
 On-going studies of "arc-echo radar" patterns and relation to severe  
 weather (Jimmy Russell)  
 Use of Hodographs in Severe Weather Forecasting (Jimmy Russell)  
 Study of timeliness and receipt of FAA observations (Newton Skiles)  
 Comparison of U.S.F.S. hygrothermograph max/min relative humidity with  
 nearby NWS official observations (Mike Thompson)

Studies of application of ADAP program to forecasting precip/severe weather events (George Wilken)

Use of office PC to forecast min temperatures (George Wilken)

Overview of AFOS - Review of Development of the AFOS System for WSFO Staff (George Wilken)

Use of Cross Sections in Analysis and Forecasting (George Wilken)

Correlation studies relating PoP forecasts for Zone 8 (LIT and vicinity) with radar echoes (Ken Ziegenbein)

Chapter reviews of Mesoscale Meteorology and Forecasting (summary papers prepared by each LIT forecaster)

WSFO SIL --

An Evaluation of Stability Indices as Predictors of Convection in Southern Louisiana (Frank Revitte)

Severe Weather/Heavy Rain and Flooding of Central Louisiana (Mike Koziara and Henry Lau)

Tidal Flooding Caused by a Strong El Nino Low (Mike Koziara and Henry Lau)

Heavy Rainfall and Flooding Across Southwest Louisiana (Henry Lau)

WSFO FTW --

East Texas Tornadoes of November 15, 1987 (Gifford Ely, Stan Christmas and Chris Sohl)

Case Study of Strong Winds Over North Texas, March 23, 1987 (Ely)

An Intense Heat Checklist Derived for the Mesoscale Aspects of 1980 Heat Wave (Ken Falk and Stan Christmas)

Heavy Rain and Severe Weather Episode, May 31-June 2, 1988 (Ely, Falk, Sohl, Paup [CWSU] and Read)

A CWSU Perspective on the Thunderstorm Event on March 11, 1988 (James Ott [CWSU FTW])

WSFO JAN --

ADAP and Its Use for the Operational Severe Weather Forecaster (Dave Imy)

Snow and Ice Event...Jan 6, 1988 (Earl Gasson)

Arch Echoes and Maxi Tornadoes - May 1988 (Charlie Smith and Randy McKee)

Reference Manual on Using the Palmer Drought Index, Crop Moisture Index and Their Environmental Impacts (Charles Chimento)

The Extended Forecast, and an Example of Extended Prog Deviation (Kevin Pence)

Report on Forest Fire Fighting Detail in the Northwest U.S. (Bernie Esposito)

Numerous significant weather event reviews on file for 1987-1988 (required at JAN following any severe weather event)

#### AWSC AUB

The Auburn Vegetative Wetting Model (Harker and Getz)

An Expanded 6-10 Day Outlook (Ihle)

Weather Information for Aquaculture (Ihle)

Expanded Five Day Temperature Guidance (Harker)

Alabama/Georgia/Florida Farmer's Guide to the Weather (Getz)

#### AWSC STN --

Agricultural Weather Services for the Mid-South (Gene Rench)

Mid-South Beef Producer Profile and Weather Needs (Gene Rench)

Haying Advisories for Mid-South Beef Producers (Gene Rench)

Weather Advisories for Winter Feeding of Beef Cows (Gene Rench)

Weather Matrix for GOSSYM/COMEX (Gene Rench)

Climate of Stoneville, Mississippi (Hotz)

Agrometeorological Support for Controlling Wheat Diseases in the Mid-South (Ray Wolf)

Weather Monitoring and Use of Rice Blast Severity Units to Manage Rice Blast (Ray Wolf)

Rice Water Use - Seasonal Variability, Rainfall Capturing, and Management Variables (Ray Wolf)

Weather and Its Effects on Oak Species (Ray Wolf)

Soil Temperatures - Climate/Prediction/Operational Use (Gene Rench)

Agricultural Weather Guidance for Advisory Composition (Ray Wolf)

Vegetative Wetting Climatology for the Mid-South (staff)

Agrometeorological Network for the Mid-South (Rench/Hotz)

Agricultural Weather Services for Extension (Gene Rench)

Verification of Agrometeorological Variables (Ray Wolf)

Operation and Improvement of the Rice DD50 Program (Gene Rench)

Application of AGMOS for Agricultural Weather Forecasting for the Mid-South (Ray Wolf)

Development of Agricultural Weather Information Systems (staff)  
Climate of the Mid-South (staff)

Training Program for Agricultural Weather Forecasters (Gene Rench)

AWSC CLL --

Late Freezes in Texas and Their Influence on Peach Crop Damage  
(Michael Flynn, et al.)

Ag MOS Users Guide (Jose Garcia)

Study of Agro-Climatology of Taylor, Texas (staff - made for U.S.  
Justice Dept. in regard to legal action)

ATL RFC --

Hydrologic Characteristics of the Santee and Pee Dee River Basins  
(Jerry Curnutt, Sep 1988)

Hydrologic Characteristics of the Suwannee River Basin (Jerry Curnutt,  
Apr 1988)

Hydrologic Characteristics of the Apalachicola River Basin (Jerry  
Curnutt, Jun 1988)

Hydrologic Characteristics of the Cape Fear, Tar and Neuse River  
Basins (Brad Gimmestad, Jun 1988)

Hydrologic Characteristics of the Roanoke River Basin (Brad Gimmestad,  
Jun 1988)

Hydrologic Characteristics of the Chowan River Basin (Brad Gimmestad,  
Jun 1988)

Hydrologic Characteristics of the Alabama River Basin (Duane Moyer,  
Jun 1988)

Technical Attachments to SR Administrative Notes (field contributions):

1987 --

- 1/ 6 Significant Weather Study: Heavy Snow in North Texas, Dec 11-22, 1986 (WSFO FTW)
- 2/ 3 Key West Heavy Rain and Flooding Episode (WSO EYW)
- 2/10 The Sweetwater Tornado -- Is Hindsight Really 20/20? (WSFO LBB)
- 3/17 Calculating Cattle Feed Index Using Standard NWS Forecast Products (AWSC STN)
- 4/14 Georgia Snowstorm - Jan '87 (WSFO ATL)
- 4/14 Heavy Snow Event in East Tennessee...Jan 21-22, 1987 (WSFO MEM)
- 4/28 Significant Weather Event -- Heavy Rainfall Over Oklahoma -- Sep 28 - Oct 3, 1986 (WSFO OKC)
- 5/12 Sowashee Creek Flood of January 17-18, 1987 (WSFO JAN)
- 5/26 The Lemon Technique - 1987 (WSFO JAN)
- 6/ 9 Severe Weather Warning "Tips" (WSFO LIT)
- 8/18 Using "MESOS" as an Aid for Projecting the Continuation of Ongoing Strong Thunderstorms (WSFO LIT)
- 9/29 The Jones County Tornado - Feb 28, 1987 (WSFO JAN)
- 10/13 An Efficient, Integrated Fire Weather Forecast Program (WSFO LIT)
- 10/27 The Record-Setting Temperatures of August 1987 - How Well Did Guidance Do? (WSFO MIA)
- 11/10 Using Radar to Detect Severe Weather (WSFO FTW)
- 11/24 Report on Significant Weather Event -- Gale Winds Across Florida -- Mar 6-8, 1987 (WSFO MIA)
- 12/22 Canton Flash Flood - Jun 13, 1987 (WSFO JAN)

1988 --

- 2/ 2 The Heavy Precipitation Event of May 27-28, 1987 in Northeast Oklahoma (WSO TUL)
- 3/15 The Winter Storm of January 6 and 7, 1988 (WSFO BHM)
- 3/29 A Local Verification Study of the LFM MOS and NGM Perfect Prog Guidance for WSFO Birmingham (WSFO BHM)

- 3/29 Agricultural Weather Information System at AWSC Auburn, AL (AWSC AUB)
- 4/12 Arch Echoes and Maxi Tornadoes (WSFO JAN)
- 5/24 Notes on the NMC and the Visiting Forecaster Program (WSFO LBB)
- 6/ 7 Winds and Lake Advisories at Lake Meridith (WSO AMA)
- 6/ 7 April Wind Case Study (WSO TRI)
- 6/21 The Valentine's Day "Hurricane" -- A Case Study (WSO GLS)
- 7/ 5 Tidal Flooding Caused by a Strong El Nino Low (WSFO SIL)
- 7/19 An Historical Sketch of New Mexico's First Weatherman (WSFO ABQ)
- 8/ 2 Recommended Reading List -- Preprints, AMS 15th Conference on Severe Local Storms (WSFO FTW)
- 9/13 Do We Forecast Cool Season Precipitation Too Soon? (WSFO JAN)
- 9/27 The 1988 NCAR Summer Colloquium on Synoptic Meteorology (WSFO JAN)
- 10/25 Southern Region Participation in NCAR Terminal Doppler Weather Radar Experiment (WSFO ABQ/WSFO SIL)
- 10/25 Using the Upper Air (UA) Program to Improve Temperature Forecasts (WSFO LBB)
- 11/ 8 Galveston's Backdoor Tropical Tornadoes and Flooding of 1981 (WSO GLS)
- 11/22 Forecasting in the 90's ... Are We Ready? (WSFO JAN)
- 11/22 Effects of Hurricane Gilbert in the Gulf of Mexico (WSFO SAT)