

***NATIONAL WEATHER SERVICE WESTERN REGION SUPPLEMENT 03-2003
APPLICABLE TO INSTRUCTIONS 20-106
MARCH 17, 2003***

***Training and Education
Training and Education, NWSPD 20-1
Training and Education, NWSI 20-1***

***DESCRIPTION OF WESTERN REGION'S VIDEOTAPE, SLIDE, AND AUDIO
CASSETTE LIBRARY***

OPR: W/WR3 (A. Edman)

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03/03/03

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Director, Western Region

Date

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1. Description. This supplement describes the Western Region videotape, slide, and audio cassette library program. Various videotapes, 35mm slides, and audio cassettes are available in the Western Region Headquarters (WRH) library for use by National Weather Service (NWS) employees. They cover a range of subjects related to the mission of this agency and can be used on-station, at public meetings, or during school visits to inform and instruct employees and users of NWS products, programs, and activities.

1.1 Requests. Written or telephone requests for these videotapes, slides, and audio cassettes should be addressed to the SSD secretary, or phone (801) 524-5131 well before the actual date the materials will be needed. Requests will be filled on a first-come, first-served basis. In some instances, only one copy of a particular videotape, slide set, or audio cassette is available, and, if in great demand, it may not be possible to meet a request for a particular date. In that event, a second or third choice must be considered. Additional copies of non-copyright videotapes can sometimes be made to avoid conflicts if SSD is notified well in advance.

1.2 Restricted Use. Since the number of videotapes, slides, and audio cassettes available from SSD is limited, we must restrict use of them to NWS employees and request that they not be loaned to the general public. They may be easily damaged by an untrained user or lost through negligence. Therefore, we ask that an NWS employee always be on-site when one of our videotapes is shown at an off-station location.

1.3 Descriptions. Attached is a directory with descriptions of the videotapes, slides, and audio cassettes available for loan from SSD to field stations. Several of these have already been provided to field sites for permanent retention on-station. Please check your office library before borrowing videotapes and slides.

1.4 Educational Tool. Videotapes, slides, and audio cassettes serve as a valuable educational tool in keeping the public informed about weather phenomena that affect lives and property. They are also a valuable resource for training NWS employees in meteorology, hydrology, computer science, and other subjects. Please feel free to make liberal use of the videotapes, slides, and audio cassettes we have at WRH and that you already have at your station.

APPENDIX A - VIDEOTAPE INDEX

SERIES 100	-	AFOS
SERIES 200	-	AIR POLLUTION
SERIES 300	-	ATMOSPHERE/CIRCULATION/PROFILERS
SERIES 400	-	AVIATION
SERIES 500	-	CLOUDS
SERIES 600	-	ENVIRONMENT
SERIES 700	-	FIRE WEATHER
SERIES 800	-	FLOODS/FLASH FLOODS
SERIES 900	-	FORECASTING
SERIES 1000	-	FRONTS/AIR MASSES
SERIES 1100	-	HURRICANES
SERIES 1200	-	MANAGEMENT
SERIES 1300	-	PRECIPITATION
SERIES 1400	-	SATELLITE
SERIES 1500	-	STORMS/LIGHTNING
SERIES 1600	-	TORNADOES - -
SERIES 1700	-	WEATHER (GENERAL)
SERIES 1800	-	MARINE
SERIES 1900	-	RADAR
SERIES 2000	-	MISCELLANEOUS
SERIES 2100	-	COMPUTERS
SERIES 2200	-	DIVERSITY/EEO

APPENDIX B - VIDEOTAPE DIRECTORY

113 AFOS: A COMMITMENT TO SERVICE - 17 min - 1/2"

Provides the AT&T people better understanding of the National Weather Service, the critical nature of the NWS mission, a better perspective of the AFOS network and its role in fulfilling that mission, and the AT&T difficulties in dealing with communication line problems, and what information is needed when the NWS reports trouble.

114 WXR DEMONSTRATION (9/85) - 50 min - 1/2"

WXR is an AFOS application program designed to decode SHEF formatted products and create output in two user-selective formats: (1) state temperature precipitation bulletins and (2) plot files for plotting with PMOD. This tape demonstrates how to set up files for the program and how to actually run it. The narrator is Harold Opitz who developed this program at the Cincinnati RFC.

SERIES 300 - ATMOSPHERE/CIRCULATION/ PROFILERS

302 GENERAL CIRCULATION & LOCAL WINDS (1979) - 17 min - 1/2"

Illustrates and explains global forces which generate all weather phenomena, i.e., atmospheric circulation resulting from temperature differences between the equator and the poles, pressure gradient force, coriolis force and friction force. It also shows local wind phenomena such as sea and land breezes.

303 COMMA CLOUDS AND ARCTIC LOWS (4/84) - 56 min - 1/2"

This videotape by Steve Businger of the University of Washington, provides information on the structure of comma cloud pattern storms that develop poleward of the main polar front. This includes an example of an instant occlusion and the climatological structure of the baroclinic zone and jet max with relation to the comma cloud.

The second part of this tape is about polar lows which develop at very high latitudes in proximity to thermal contrasts of sea ice and warmer open water. These are relatively small-scale storms, but they do move south into mid-latitudes.

304 THE WIND PROFILER (1988) - 29 min - 1/2"

This videotape is narrated by Drs. Tom Schlatter, PROFS, and Richard Strauch, Wave Propagation Laboratory. This is an excellent introduction to wind profilers. Discussion focuses on the profilers developed for the NWS, which will be deployed across the central U.S. in the early 1990s. The narrators describe, with schematics and animation, how a profiler works, when and where it works best, profiler accuracy, pros/cons of the system, and output products. Wind Profiler Training Manual Number 1, accompanies this videotape. These can be viewed independently or together. Both were distributed to each Western Region WSFO and NSO.

305 WARM SEASON USES OF PROFILER DATA (1989) - 29 min - 1/2"

This videotape is narrated by Dr. Tom Schlatter and Ray Brady, both of PROFS. Using several examples, this videotape illustrates how profilers can be used to examine closed circulation, jet streaks, cold fronts, trough/ridge areas and vertical wind shear and their relationship to warm season convective development. This videotape is very well done. Profiler Training Manual Number 3 details each of the cases presented in the videotape and provides additional background information. The videotape and manual were mailed out to the WSFOs and NSO.

306 COOL-SEASON WIND PROFILER ANALYSIS AND FORECASTING (1989) - 27 min - 1/2"

This videotape, produced by PROFS, illustrates the use of profiler wind data over Colorado during the cool season. Several cases are examined, using profiler data alone or in conjunction with standard meteorological data (rawinsonde, surface reports, satellite), to determine trough tilt, location deformation zones/jet streams, closed circulations, and divergence/convergence patterns. The videotape can be viewed by itself as a training module, or together with an accompanying Wind Profiler Training Manual Number 4. Both the videotape and the training manual have been distributed to each Western Region WSFO and NSO.

307 THE PROFILER NETWORK (1988) - 15 min - 1/2"

This introduction to profilers includes a basic overview of how profilers operate and what they measure. Uses of profiler data for public and aviation forecasting, and air traffic control are discussed by people at WSFO Denver and the CWSU in Denver.

308 QUALITY CONTROL OF WIND PROFILER DATA (1989) - 28 min - 1/2"

This videotape discusses the causes of contamination of profiler wind data, how to identify bad data in a profile, and examines how algorithms are used to filter out bad data. Wind Profiler Training Manual Number 2 (same title as videotape) accompanies the videotape. The videotape and training can be reviewed independently or together. Each has been distributed to the Western Region WSFOs and NSO.

SERIES 400 - AVIATION

403 THE PROBABLE CAUSE -- WIND SHEAR (1984) - 26 min - 1/2"

Produced by NCAR for the FAA in 1984. Geared toward alerting pilots to wind shear, particularly microbursts. John McCarthy of NCAR narrates a lengthy section on microburst formation, strength, and clues to their presence. Research from the JAWS experiment, use of Low Level Wind Shear Alert Systems, and Doppler radar techniques for identifying hazardous wind shears are shown. The final third of the tape is a technical discussion of flying tactics pilots should use when they encounter strong wind shears.

404 THE WIND SHEAR FACTOR (1986) - 21 min - 1/2"

Produced by NCAR for the FAA in 1986. Basically an update of "The Probable Cause," though it is geared toward both pilots and air traffic controllers. The first half of the videotape discusses the formation of wind shears, particularly microbursts associated with convective storms. It shows the impact they can have on aviation and gives key indicators to identifying their presence. Information on the 1982 JAWS experiment, the 1984 operational microburst tests, the Enhanced Low Level Wind Shear Alert System, and Doppler radar signatures is included. The second half of the videotape is an interview with a United Airlines pilot who survived an encounter with a severe wind shear on take-off from Denver's Stapleton Airport.

405 THUNDERSTORMS--AN AIRCRAFT'S DILEMMA (1986) - 26 min - 1/2"

This videotape was produced by the Atlanta and Memphis CWSUs. It discusses thunderstorm hazards from the point of view of an air traffic controller. In this effort, it includes more meteorology than the typical "made for pilots" videotape, though it does not go into great detail. The final part of the videotape concentrates on uses and shortcomings of radar in thunderstorm flying. The videotape contains good graphics and current (1986) theory on thunderstorms and associated hazards. It was produced in-house by CWSU meteorologists. It therefore lacks studio quality. While it would be best used as an in-house resource, it could be appropriate for selected small groups of pilots, air traffic controllers, or FSS briefers.

406 TURBULENCE AND ICING--AVIATION'S PRIMARY WINTER HAZARDS (1986) - 26 min - 1/2"

This videotape was produced by the Atlanta and Memphis CWSUs. It was developed for use in training air traffic controllers. The first half of the videotape deals with turbulence; the second half concentrates on icing. This videotape is most useful as a resource for NWS personnel developing talks on icing or turbulence rather than as a device to be used in conjunction with a talk. It also might be useful as a learning tool for new NWS pilot weather briefers who need to know more about turbulence and icing. Several minutes' worth of material were shot in the air route traffic control center; these are very dark and difficult to see. The material is thoroughly covered by CWSU meteorologists, and graphics are generally quite good.

408 WEATHER OR NOT (1987) - 15 min - 1/2"

"Weather or Not" was created by the FAA Academy to serve as an introduction to CWSU operations. Although each CWSU operates a bit differently, nearly everything described in the videotape is true at Western Region CWSUs. Buzz Rivard, Albuquerque CWSU MIC, assisted with the script. Operational scenes were filmed at the Albuquerque CWSU in the fall of 1987. The videotape is professionally done and serves as a good, though unexciting, introduction to CWSUs.

409 ICAO--WINGS FOR THE WORLD (1988) - 20 min - 1/2"

ICAO is the International Civil Aviation Organization. It sets standards and makes recommendations for international aviation. Two areas ICAO regulates are international weather forecasts and weather data exchanges for aviation, though these are never mentioned in the videotape. Since the video was produced by the FAA, it deals almost exclusively in air traffic and air safety issues handled by ICAO. Nevertheless, it is a good general introduction to ICAO.

410 THE DAY "ALL HELL" BROKE LOOSE (1989) - 20 min - 1/2"

This is an excellent videotape from NCAR that details the events surrounding a significant microburst that occurred at Stapleton Field, Denver, Colorado, in July 1988. The microburst occurred just nine days after a new Terminal Doppler Weather Radar (TDWR) system was installed. The videotape highlights how the TDWR output was used to alert aircraft and includes interviews from several pilots who experienced the microburst firsthand. This video should be shared with all aviation groups. Copies were sent to the WSFOs and CWSUs.

411 WEATHER FLIGHT PLANNING AND THE PILOT (1993) - 46 min - 1/2"

(AOPA Air Safety Foundation) - Learn how to choose the weather briefing that best meets your needs for a particular trip. Gain a better understanding of TIBS, DUATS, AWOS, AM WEATHER, etc. Recording and evaluating weather reports and forecasts will also be discussed.

412 GO/NO-GO WEATHER DECISIONS (1993) - 39 min - 1/2"

(AOPA Air Safety Foundation) - This program discusses the decision-making process relative to weather planning. It covers the evaluation of synoptic information, and weather reports and forecasts with respect to the pilot's and aircraft's capability and the type of flight planned. Emotional factors in decision-making, such as get homeitis, are also discussed.

413 EVALUATING IN-FLIGHT WEATHER (1993) - 29 min - 1/2"

Contains information on sources of in-flight weather information, such as En-route Flight Advisory Service (EFAS) and Automated Weather Observing System (AWOS). Shows how to evaluate in-flight information for making valid continue or divert decisions.

SERIES 600 - ENVIRONMENT

601 GLOBAL WARMING (1990) - 60 min - 1/2"

This very interesting global warming briefing was presented by Len Snellman at the January 1990 Utah Chapter AMS Meeting in Salt Lake City. The theme of Len's talk is, while we should be concerned about how we might be changing our climate, the problem is so complex that it's extremely difficult to project how the climate may change in the next hundred years or more. Len cites several studies and has presented many schematics to illustrate his points.

602 CRISIS IN THE ATMOSPHERE (1990) - 55 min - 1/2"

This show (Infinite Voyage, PBS) on public television examines global warming and how pollutants and chlorofluorocarbons are destroying the delicate balance between the Earth, atmosphere, and the sun. The efforts needed on the part of governments, industries, and individuals to control pollutants in the atmosphere are discussed.

603 UNLOCKING THE MYSTERIES OF EL NINO (199) - 20:11 - 1/2"

This video is produced by the University Corporation for Atmospheric Research. It discusses EL NINO, and TOGA COARE (Coupled Ocean Atmosphere Response Experiment). It briefly explains the role clouds have in regulating the sea surface temperature. This video is excellent for meteorologists as well as public viewing.

604 NOAA/EL NINO NEWS TONIGHT (1998) - 2:21 - 1/2"

NOAA/EL Nino report given on World News Tonight. ABC-TV Network, April 21, 1998 6:30 - 7:00pm.

605 U.S. GLOBAL CHANGE DATA INFORMATION SYSTEM (1998) - 9:00 -- 1/2"

This is a new 9 minute Global Change Video that was distributed at the 1998 National Science Teachers Association Convention in Las Vegas. It is geared for presentations to junior and senior high audiences as well as adults.

SERIES 700 - FIRE WEATHER

701 FIRE WEATHER OBSERVATIONS FOR FIRE DANGER (1982) - 42 min - 1/2"

Oriented toward training fire weather observers to take accurate, comprehensive weather observations for fire danger rating purposes.

702 SMOKE IN THE VALLEY - THE SUMMER OF 1985 - 10 min - 3/4"

This videotape was produced by the U.S. Forest Service to share some thoughts and the appreciation of the Regional Forester to the many people who assisted during summer 1985 in suppressing fires in the Intermountain Region.

703 AIR TRANSPORTABLE MOBILE UNIT (1988) - 28 min - 1/2"

This videotape provides an overview of the Air Transportable Mobile Unit (ATMU) program. It describes procedures for arranging on-site fire weather forecasting support for an on-going wildfire. Instructions for transporting, assembling, and operating the ATMU are discussed. It is intended as introductory training for meteorologists who will be dispatched to provide on-site fire weather forecasting. A quiz is available to test comprehension of the material.

704 CANYON CREEK FIRE - 1988 YELLOWSTONE FIRE (1989) - 86 min - 1/2"

A good, thorough review of the Canyon Creek Fire in Yellowstone National Park, produced by the Forest Service. The video begins with a discussion of forest fires in the ecological cycle, and the fire management plan in the Yellowstone area. It contains a thorough account of the Canyon Creek Fire from beginning to end, including management plans, weather effects, and what areas were burned.

705 TECHNIQUES OF FIRE WEATHER BRIEFING (1988) - 33 min - 1/2"

This video, produced by the fire weather office in Boise, is designed for beginning fire weather forecasters and discusses how to prepare and deliver forecasts for fire weather briefings. It includes an example of a briefing at a fire weather office, and an on-site briefing.

706 VORTICES IN WILDLAND FIRE (1988) - 15 min - 1/2"

This videotape is the result of many years of Forest Service research by the North Central Forest Experiment Stations Fire Management Project. This videotape vividly shows actual and laboratory-simulated vortices which develop during intense wildfires. The purpose of this video is to educate the on-site managers on the potentially hazardous effects of these vortices. It's mainly a descriptive, non-technical videotape, but still very useful as part of fire weather forecaster training.

SERIES 800 - FLOODS/FLASH FLOODS

802 KSL NEWS CLIP FORM 1983 NORTHERN UTAH SPRING FLOODS (1983) - 20 min - 1/2"

Excerpts from KSL Salt Lake City news programs depicting the Wasatch Front flooding due to snowmelt during the spring of 1983.

804 FLASH FLOOD III (1980) - 15 min - 1/2"

Flash flood awareness - promotes research of past flash flood events as part of standard readiness preparation for a flash flood event. Includes question and answer sheet.

807 CHALLENGE AT GLEN CANYON, DECEMBER 1, 1984 - 27 min - 1/2"

Produced by the Bureau of Reclamation. During the heavy runoff experienced in the Colorado River Basin in 1983, the emergency spillways at Glen Canyon Dam were used to pass the large volume of water going into an already-full Lake Powell. A brief review of the runoff scenario that led to the filling of Lake Powell is presented as well as a description of the problem of cavitation which caused the damage to the spillway. The challenge of repairing the spillway damage at Glen Canyon Dam is the theme of the videotape.

808 DANGER: FLASH FLOODS (1976) - 30 min - 1/2"

Produced locally by KOOL-TV, Phoenix, Arizona, for Corps of Engineers, Los Angeles District. Safety rules for flood areas (recreational areas like Nelson's Landing) explained.

809 DEBRIS FLOW DYNAMICS (1986) - 23 min - 1/2"

Briefly mentions causes of debris flows but concentrates on various types and phases of debris flows. Lots of footage of actual debris flows including some in the western U.S.

810 THE AWESOME POWER (1988) - 15 min - 1/2"

A flash flood awareness tape containing footage from actual flash flood events that graphically illustrates the devastating power of flash floods. The videotape contains tips on avoiding the dangers of flash floods. It also explains the role of the National Weather Service in flash flood warning. This videotape is excellent for use in conjunction with flash flood awareness and preparedness talks.

812 ARIZONA MONSOON (SPANISH) (1988 & 1989) - 1/2"

This is a videotape of a Arizona Monsoon/Thunderstorm awareness interview with Ron Block and Hector Vasquez done with a local Spanish TV station. The first interview is a Spanish voice-over explaining the Arizona Monsoon of July 1988. The following two segments, in Spanish, are of damage inflicted by a Phoenix thunderstorm and the dangers and precautions one should take during thunderstorm episodes.

813 FLASH FLOODS: A WARNING TO BEWARE (1992) - 15 min - 1/2"

Titled on the video, "The Power of Water", this public awareness tape, produced by the Arizona Floodplain Management Association, begins with examples of the destructive power of water. It then shows examples of flash flooding in Arizona washes, and actual footage of the rescues of people who have ignored the warnings against driving into them. This video is a good reminder of the danger of flooded washes.

814 CAPITOL REEF FLASH FLOOD (1992) - 20 min - 1/2"

A flash flood occurred on the afternoon of July 24, 1992 along Grand Wash and the Fremont River in southern Utah. The videotape shows the impact of the turbulent waters. The last portion of the videotape is taken a day later showing the contrast between normal flows of the Fremont River and the previous day's flooding.

815 THE HIDDEN DANGER, LOW-WATER CROSSINGS (1998) - 8 MIN - 1/2"

A video produced by the Office of Hydrology. It explains the risk of low water crossings and precautions that the public can take to avoid potentially dangerous situations.

816 MOVING WATER: ADVENTURE OR DANGER? (1999) - 15MIN - 1/2"

A video produced by the Office of Hydrology. It explains the dangers of fast moving water and introduces some safety tips on how to avoid dangerous situations.

SERIES 900 - FORECASTING

901 EXPLOSIVE MARITIME CYCLOGENESIS (1984) - 60 min - 1/2"

A seminar presented by Chuck Wash, Professor of Synoptic Meteorology at the Naval Postgraduate School. The subject is explosive deepening per hour, over ocean areas. The seminar was presented to the WSFO San Francisco staff in January 1984 and was recorded by David Williamson of the WSFO staff. The following major points are made about explosive development: (1) cannot be explained by typical cyclogenesis signatures; i.e., PVA and thermal advection; (2) occurs in areas of weak static stability, i.e., cold air heated by warm ocean surface; (3) cannot be explained by traditional polar front theory; (4) current NWP models explain only 1/4 to 1/3 of the deepening rate; and (5) jet streaks or local wind maxima embedded in large-scale jet stream are often associated with development.

911 NEGATIVE TILT DIFFLUENT TROUGHS (Bullock) (1976) - 21 min - 1/2"

Dynamics and kinematics of upper level troughs are discussed. Transport of angular momentum northward or southward depends on trough configuration. An explanation is given for why negative tilt and different troughs tend to dig, i.e., transport momentum southward. Planetary vorticity and baroclinic effects on developing troughs are also discussed.

912 TRUNCATION ERROR (Stackpole) (1977) - 17 min - 1/2"

Truncation errors as they relate to numerical modeling in numerical weather prediction are defined and discussed. Truncation errors, i.e., errors due to using a coarse grid in NWP models, have several effects that are explained. For instance, winds may be too slow, advections too small, amplitudes of systems too shallow. High frequency disturbances may not be represented.

913 CAUSES OF VERTICAL MOTION (Bullock) (1979) - 28 min - 1/2"

This videotape discusses some of the assumptions involved with, and the physical reasoning behind, the use of temperature and vorticity fields in assessing the vertical motion field.

914 EFFECTS OF VERTICAL MOTION (MacDonald/Bullock) (1978) - 18 min - 1/2"

Effects of vertical motion on moisture fields and stability are presented. Examples of moderate values of upward vertical motion on fairly dry and stable air masses are shown to illustrate how rapidly the atmosphere can become explosively unstable. These ideas can be applied to diagnosing poor short-range predictions due to incorrectly initialized NWP models.

915 TELECONNECTIONS (Lawrence Dunn) (1984) - 39 min - 1/2

Conditional climatology in the form of 500-mb sign frequency teleconnection maps is described. The application of teleconnections to large-scale forecasting is demonstrated through a series of examples.

916 WEATHER FORECASTING (1975) -- 18 min (Encyclopedia Britannica) - 1/2

This is a videotape in the AGI-EBE Earth Science Program produced in cooperation with the American Geological Institute and in collaboration with Mr. Miles Harris, American Meteorological Society. Education objectives of the tape are to briefly survey the history of weather forecasting, to illustrate the importance of weather forecasting in our lives, to describe the means by which meteorologists collect and analyze weather data and prepare forecasts, and to document the preparation of an actual weather forecast. All ages.

917 STATION WORKSHOP ON RECENT DEVELOPMENTS IN MODEL OUTPUT STATISTICS AND PERFECT PROGNOSIS TECHNIQUES (1988) - 1 hr 27 min - 1/2

This videotape is based on material presented by TDL at several station workshops in 1987 and 1988. It explains the characteristics of the MOS and perfect progressive approaches to statistical forecasting and discusses the major differences between the two. Several real cases of statistical forecasts are presented that illustrate these differences and that point out characteristic biases of NMC operational models. Includes a set of questions and answers.

919 USE OF RADAR AND SATELLITE DATA FOR MESOSCALE FORECASTING AT NSSFC BY FRED OSTBY (1988) - 47 min - 1/2

This is a good general discussion of how NSSFC forecasts severe weather topics covered include, tornado climatology and classes, use of satellite, radar, and lightning data, watch/warning issuance and verification, and the integration of various data sets using the advanced workstation CSIS. This is an excellent up-to-date overview of NSSFC operations.

920 1. MESOSCALE WINTER FORECASTING ON DAR3E. 2. COLLIDING BOUNDARIES AS FORECASTING USING DAR3E WORKSTATION (1988) - 32 MIN - 1/2

This videotape is narrated by Larry Dunn, WSFO Denver, and illustrates the use of the DAR3E workstation in an operational environment. Two short cases are presented. The first case evaluates the December 1987 heavy snowfall event in Denver. The second case examines severe thunderstorm development as the result of intersecting boundaries. Both cases illustrate the effectiveness of Doppler radar and profiler data in diagnosing the potential of these impending meteorological events. A copy was sent to each WR WSFO and the NSO.

921 AWIPS BRIEFING (1990) - 30 min - 1/2"

In this videotape, Larry Dunn describes how AWIPS may be used by forecasters based on the experience with the DARE workstation at the Denver WSFO. Topics include mesoscale phenomena, Doppler radar, wind profilers, and NMC gridded model data.

922 A STUDY OF A NUMERICALLY MODELED SEVERE STORM (1990) - 6 min - 1/2"

A three-dimensional look at the numerical simulation of a long-lived thunderstorm. Liquid water content, reflectivity, and parcel trajectories are shown during the life cycle of the modeled storm. This is an excellent example of how visualization techniques can be used to help scientists study the behavior of storms.

923 Q-VECTORS - LARRY DUNN (1990) - 65 min - 1/2"

(Quasi-Geostrophe Theory-Gridded Data Video) This video is a seminar presented by Larry Dunn that covers the historical evolution of the graphics used operationally to estimate vertical motion. It discusses QG theory, and how this theory can be applied with the graphics currently available. Then the potential use of gridded numerical model output is covered with respect to QG theory and possibilities beyond QG.

924 INTRODUCTION TO PCGRIDDS - 60 min - 1/2"

This videotape was produced with the guidance of the original software developer, Ralph Petersen. The command structure of PCGRIDDS interpretation of the various header information, how to change, overlay, and contour various parameters, and two case studies demonstrating the effective use of gridded data are covered. This videotape is an excellent introduction to PCGRIDDS and the utility of gridded data.

925 FAIS 5.0 OVERVIEW VIDEO (1994) - 1/2"

FAIS 5.0 Overview gives a brief introduction and overview of the Forecaster Application and Imagery System (FAIS 5.0). Addresses most of the FAIS platform utilities and is narrated through its entirety. Is not intended as an instructional video but rather a brief informative summary.

926 FORECAST FOR THE FUTURE (1998) - 13:40 MIN - 1/2"

NOAA is modernizing and reconstructing the NWS. Advances in the science of meteorology and hydrology, and new technical capabilities for observing and analyzing the atmosphere are providing unprecedented weather services to the nation. Using satellites, radar, automated observation equipment, super-speed computers and interactive communication systems, the NWS operates the most advanced weather and flood warning and forecast system in the world.

SERIES 1000 - FRONTS/AIR MASSES

1001 COLD FRONTS (1979) - 9 min - 1/2"

Presents a pictorial discussion of polar and tropical air masses, the polar front, cold-front recognition, its characteristics, movement, and associated weather.

1002 WARM FRONTS (1979) - 13 min - 1/2"

Presents a pictorial discussion of warm front formation, recognition, characteristics, movement, associated weather, and hazards to flight.

1003 THEORY OF AIR MASSES (1979) - 27 min - 1/2"

Illustrates and explains the general nature of air masses, their sources, characteristics, and modifications resulting from movement over land and sea. Moisture content is discussed together with its relationship to lapse rate, temperature, and stability. Seasonal and geographic characteristics are depicted. The closing refers briefly to the roles played by air masses in the formation and behavior of fronts.

SERIES 1100 - HURRICANES

1103 HURRICANE ELENA (1985) - 60 min - 1/2"

This videotape includes both satellite and radar loop imagery and live footage of Hurricane Elena, August 28 to September 2, 1985, along the coast of Florida. The videotape begins in Pensacola, Florida, and follows the hurricane on its devastating journey north.

1104 HURRICANE HUGO (1989) - 2 min - 1/2"

Infrared satellite loops (with and without color enhancement) of Hurricane Hugo as it made landfall over Charleston, South Carolina, on September 21, 1989.

1105 HURRICANE! (1989) - 54 min - 1/2"

This NOVA episode, which aired on November 7, 1989, is an excellent documentary on how the National Weather Service works with national and local emergency personnel to effectively warn the public. The show focuses on tracking and forecasting Hurricane Gilbert (1988), including coverage on board a reconnaissance flight through the eye. Also, survivors of Hurricane Camille (1969) tell their stories. This is a good educational video for interns and other newcomers to the National Weather Service.

1106 HURRICANES OF THE 1980s (1992) - 82 min - 1/2"

Homemade production of footage from amateur videos as well as satellite and radar documentation of seven hurricanes affecting the U.S. during the 1980s. Some scenes put to music.

1107 NOAA "HURRICANE" (1984) - 28:30 min - 1/2"

Winner of the CNE Golden Eagle, 1984. Tracks Hurricane Alicia from its tame beginnings in the Gulf of Mexico to its violent and deadly landfall at Galveston, Texas, in August 1983. Examines the impact of hurricanes from the viewpoints of the people who forecast them, those who work to minimize loss and those who aid in recovery efforts.

SERIES 1200 - MANAGEMENT

1211 MR. ROGERS' NEIGHBORHOOD VISIT TO WSO PITTSBURGH - 20 - 1/2"

Mr. Rogers visits a weather station and explain how a WSO operates and how it forecasts weather. Excellent for grades 1-8.

1212 CUSTOMER CARE - IN SEARCH OF EXCELLENCE (1980) - 55 min - 1/2"

Tom Peters and Bob Waterman, co-authors of In Search of Excellence, explore excellence in American business. Several businesses are featured, Disney World, a dairy/grocery store, 3-M, and Apple Computer, each focusing on its successes. A good management video.

1215 A MEDIA RELATIONS SELF-DEFENSE COURSE (1985) - 55 min - 1/2"

The videotape covers media relations and public officials/servants. Ideas are given on how to avoid poor newspaper reporting, how to handle telephone interviews -- when and where, and how to hold news conferences and media briefings. Also presented are the "Twenty-seven Commandments of Good Media Relations."

1219 THE ABILENE PARADOX (1984) - 27 min - 1/2"

This is an excellent videotape demonstrating that group decisions may not reflect the viewpoints of the majority of the group. It shows how easy it is to make a wrong collective decision.

1220 ACHIEVING REPRESENTATION WITHIN THE ATMOSPHERIC SCIENCES (1989) - 24 min - 1/2"

This videotape is narrated by Ed Young, Chief of Technical Services, Pacific Region. The tape examines the statistics on minorities and women employed in the NWS, with degrees in the physical and atmospheric sciences. Emphasis is placed on those special interest groups for whom we are greatly lacking employment representation.

1221 EXCELLENCE IN THE PUBLIC SECTOR (1989) - 53 min - 1/2"

This excellent videotape is narrated by Tom Peters, a nationally recognized expert in management techniques. Four agencies in the public sector are examined in this tape. In each

case, problems were solved or efficiency/productivity were increased through the use of new techniques or procedures. The videotape demonstrates how we, in the public sector, can improve services to our clients (tax payers) while also improving employee morale and productivity.

1222 MANAGING PEOPLE (1990) - 52 min - 1/2"

This videotape is narrated by Professor Charles Dwyer, who has presented elements of his Managing People seminar to hundreds of executive groups in the United States and around the world. He takes you beneath the surface of management and authority to reveal the essence of power. He explains why managers often lapse into self-limiting styles of management, and he teaches substitute behaviors that expand human influence and maximize organizational power. Videotape is also accompanied with audio cassette and study guide.

1223 BUSINESS ETHICS (1990) - 58 min - 1/2"

This videotape shows you how to make high ethical standards an ongoing part of your firm's decision-making process. The Wharton School's Thomas Dunfee and Diana Robertson present fundamental principles of business ethics, and viewers share managers' reactions as they explore implications for business situations. The issues confronted are serious ones that reach to the very heart of business ethical behavior. This video package (videotape, audio cassette, and study guide) provides an important tool for assuring that all employees recognize the importance of good ethics to the welfare of the firm, its employees, and the greater society.

1224 TOTAL QUALITY MANAGEMENT (1991) - 1/2"

A presentation by Gene Rouleau, OPM, 1991, at the Western Region AM/HIC Conference in Salt Lake City. This talk presents a national perspective on how the concept of Total Quality Management (TQM) can be successfully applied in the government and private sectors. Rouleau stresses that TQM is just as important in a science oriented economy as one that primarily produces durable goods.

1225 A LOOK INTO THE FUTURE (1991) - 9 min - 1/2"

This is a professionally-made video on the modernization. It is nontechnical and intended for general use with any audience, including new NWS employees. Emphasis is placed on radar, though shots of the DARE II workstations in Denver are included. The video has a couple of minor errors, but it is accurate on all important points. (NWSH sent all field offices a copy.)

1226 READY, WILLING, AND ABLE (1991) - 15 min - 1/2"

This videotape deals with capabilities of disabled persons in the workplace.

1227 NOAA - PRECIOUS REALMS OF A UNIQUE PLANET (1993) - 21 min - 1/2"

This video provides a brief overview of the functions of each agency in NOAA. The video is well done and includes many graphics and demonstrations of the technology and techniques used to observe, measure, and predict the land-sea-air environment. Good for all audiences.

1228 ABRAHAM LINCOLN ON COMMUNICATION (1995) - 6 min - 1/2"

Gene Griessman portrays Lincoln as a plain speaking president. He presents Lincoln's timeless communication principles as a tool that can work effectively for anyone. This video teaches you to take pains to make sure that your facts are right, determine if the person you speak to is capable of understanding and accepting your message, and if you knock someone down, try to pick them up.

1229 INTERPERSONAL COMMUNICATION SKILLS (1995) 4-volume video set, each about 60 min -- 1/2"

This 4-volume video set is produced by Career Track. It deals with training to minimize conflict and build collaboration in today's team-oriented workplace. Several of the topics include, "communicate to increase understanding and minimize mistakes", and "communicate to be liked, trusted, and respected."

1230 PERFORMANCE MANAGEMENT: AN UPDATE ON PROPOSED REGULATIONS (1995) - 1/2"

This is a video of OPM's Forum on Performance Management. The topic discussed is HRM Information Highway Forum, July 14, 1995.

1231 PRACTICE INTERVIEWS AND NEWS CONFERENCES (1995) - 1/2"

Watch Lowell Briggs practice interviews and news conferences given by the participants at the NOAA Conference in Salt Lake City on June 8, 1995 and the NOAA Conference in Baltimore in April of 1995. See how the volunteers handle the tough questions that the media presents and learn from their remarks.

1232 FORECAST FOR THE FUTURE (1996) - 13:40 min - 1/2"

The National Oceanic and Atmospheric Administration is modernizing and restructuring its National Weather Service. Advances in the science of meteorology and hydrology, and new technological capabilities for observing and analyzing the atmosphere, are providing unprecedented weather services to the nation. Using satellites, radar, automated observation equipment, super-speed computers and interactive communication systems, the National Weather Service operates the most advanced weather and flood warning and forecast system in the world.

1233 COMMUNICATING FOR RESULTS - HOW TO BE CLEAR, CONCISE AND CREDIBLE (1997) - 17 min - 1/2"

In this video you'll learn how to : offer ideas with credibility, logic, and positive emotional power, ask questions to get people involved in your position, uncover and present the most persuasive kinds of evidence, connect with you audience, focus on your listeners' moods, organize you thoughts using the "Goald 1-2-3 Formula," and make it easy for others to say "yes." This video offers you 12 communication strategies that will help you get your messages accepted, understood and acted upon.

1234 EVERYONE'S TEAMWORK ROLE (1997) - 19 min - 1/2"

How much time and effort is wasted in your organization because team members don't fully understand each others' roles and responsibilities? In this video, you will learn to encourage both vertical and horizontal understanding, using the TEAM approach to help everyone feel they're working toward a common goal, build a high level of trust between team members, use a simple formula to identify everyone's skills, strengths and roles, empathize with others to understand their priorities and challenges, and motivate teammates by offering praise in the right way.

1235 THE POWER DEAD-EVEN RULE (1995) - 36 min - 1/2"

The purpose of the "Power Dead-Even Rule" video is to promote the best possible communication between men and women in the workplace.

1236 INVISIBLE RULES: MEN, WOMEN AND TEAMS (1996) - 34 min - 1/2"

In this sequel to The Power Dead-Even Rule, men and women grow up in different cultures, learning different lessons about what it means to be a leader and what it means to be a team player.

1237 A PEACOCK IN THE LAND OF PENGUINS (1998) - 10 min - 1/2"

A modern day fable about the perils and possibilities of being different in organizations. This story echoes one that is unfolding each and every day in organizations all across the country - how to manage the increasing diversity of the workforce and capture the talent, energy, and commitment of all employees.

1238 EMERGENCY MANAGER WEATHER INFORMATION NETWORK (1998) - 11:08 min - 1/2"

Emergency Manager Weather Information Network Demo. Created by Southern Region Headquarters.

1239 THE X FACTOR: Managing & Motivating Generation X with Claire Raines (1998) 22 min - 1/2"

Claire Raine's is the nations' leading expert in Generation X. In this video, she will give you new information about Generation X workers...who they are, what makes them different, and how to develop successful ways of working with them.

1240 AND WHEN YOU FALL... (1998) - 4 min - 1/2"

Dan Jansen's story isn't just about an athlete. it's a story of life. Who hasn't slipped and fallen? After this compelling, inspirational dramatization, you'll never again hear: "It can't be done." Dan Jansen's story is so powerful, it instantly sets the tone for sales meetings, team building sessions, conference openers and one-on-one coaching. It launches any speech with stunning force. Comes with discussion guide.

1241 THE ART OF CRITICISM...GIVING AND TAKING - 30 min - 1/2"

The purpose of this program is to teach techniques that minimize the fight or flight response and maximize the learning and communication, both when giving criticism and taking it. This video also comes with a study guide.

1242 THE ART OF RESOLVING CONFLICTS IN THE WORKPLACE - 30 MIN - 1/2"

This program is based on the premise that people want to resolve conflicts in an assertive manner where everyone wins. To be assertive means being able to express thoughts, feelings, and opinions positively and directly, in an honest, open, straight forward, and sincere manner. This video program presents six techniques you can use to resolve conflict in your everyday work situations.

1243 COMMUNICATING NON-DEFENSIVELY - 19 min - 1/2"

This video shows that we all must be responsible for how we deliver and receive messages. It shows the causes and symptoms of defensive behavior, and the five skills for breaking the defensive chain. Includes leader's guide and workbook.

1244 RIPPLES - 19 min - 1/2"

"Ripples" looks at the various ways people affect each other. A series of dramatic vignettes show how one person's behavior and attitude can influence the behavior and attitude of someone else, and how that second person, in turn, can influence another. Includes meeting guide/ workbook.

1245 TEAM CREATIVITY - 20 min - 1/2"

New ideas are the lifeblood of the organization, and work teams are expected to create them. This video shows how to maintain a positive environment where teams are free to be creative. It

inspires viewers to replace "idea killers" with "idea builders" and to nurture team creativity as a critically valuable resource. A leader's guide and participant workbook are included.

1246 ADDING IMPACT TO EVERYDAY PRESENTATIONS - 6 min - 1/2"

Adding Impact to Everyday Presentations offers tips on how to enhance the look of your meeting and presentation materials quickly, easily and affordable.

1247 FORTUNE 500 FORUM: HOW MARKET LEADERS KEEP THEIR EDGE - 78min - 1/2"

1248 PREVENTING SEXUAL HARASSMENT: A MANAGEMENT RESPONSIBILITY - 67 min - 1/2"

This video is made up of three sections: I. The Risk (28:03), II. Minimizing the Risk (26:30), III. A Shared Responsibility (13:26).

SERIES 1300 - PRECIPITATION

1305 LATENT HEAT (NOAA Produced Tape) (1979) - 1/2"

Effects of latent heat release, as formulated in primitive equation (PE) NWP models are examined. PE models runs are made with and without latent heat release, and they are compared, especially with regard to the impact on storm development. A script and evaluation form are included.

1308 ESTIMATING QUANTITATIVE PRECIPITATION (Rod Scofield) (1985) - 70 min - 1/2"

A seminar presented at WRH on estimating quantitative precipitation in the western U.S. Both summer and winter events are covered.

SERIES 1400 - SATELLITE

1406 THE IMPORTANCE OF THUNDERSTORM OUTFLOW BOUNDARIES IN THE DEVELOPMENT OF DEEP CONVECTION (1981) - 30 min - 1/2"

A Walter A. Bohan-produced satellite training videotape based on information provided by NESDIS Satellite Application Lab. The importance of thunderstorm outflow in initiating new convection is demonstrated using GOES animated imagery.

1408 WATER VAPOR IMAGERY (1984) - 43 min - 1/2"

Ken Mielke presents a seminar representing information originally given in a paper by Roger Weldon and Susan Steinmetz of NESDIS. It describes the water vapor imagery from the GOES satellite. It explains what the data means, how to interpret the data, and also suggests some uses for the imagery.

1409 THE INITIATION OF CONVECTION - 19 min - 1/2"

A Walter A. Bohan-produced satellite training videotape based on information provided by NESDIS Satellite Application Lab. It discusses the initiation of convection from a satellite perspective. Animated sequences of GOES images are used to illustrate the initiation of new convection due to such processes as differential heating and convective interaction when convective cells, clusters, or lines merge.

1416 VERTICAL ATMOSPHERIC TEMPERATURE AND MOISTURE PROFILES FROM SATELLITE RADIANCE MEASUREMENTS - 54 min - 1/2"

A University of Wisconsin videotape on satellite radiance measurements. Designed for senior graduate level course work, but contains material appropriate to NWS operations. Reviews the theoretical background for remote sensing; investigates the application of remote sensing to vertically sounding the earth's atmosphere; display results achieved using remote sounding data from geosynchronous and polar orbiting satellites.

1417 FOG IDENTIFICATION AND INTERPRETATION (1987) - 25 min - 1/2"

Using visible and infrared GOES imagery in animated format, this videotape teaches how to identify and interpret fog. It explains how to identify when and how fog forms, its areal extent, and its dissipation.

1418 THE EVALUATION OF AN UPPER TROPOSPHERIC VORTEX IN THE TROPICAL ATLANTIC (1972) - 15 min - 1/2"

Using animated ATS satellite pictures, this tape describes the evolution of an upper tropospheric vortex as it moves westward across the tropical Atlantic Ocean. Evolution of this disturbance occurs over a six-day period in September 1970.

1419 RELATIVE MOTIONS ASSOCIATED WITH MOVING CLOUD SYSTEMS (1987) - 22 min - 1/2"

A well-developed, comma-shaped cloud system is analyzed in detail through the use of animated GOES satellite imagery. Relationships between the clouds and atmospheric wind flow features are illustrated and discussed. Relative motions within the moving cloud system are examined and related to various flow features.

1420 BASIC CLOUD IDENTIFICATION AND INTERPRETATION FROM CLOUD IMAGERY IN MOTION (1987) - 22 min 1/2"

Visible and infrared GOES satellite imagery are used to demonstrate several basic cloud identification and interpretation concepts. Animation applied to well-defined upper level disturbances is used extensively in this basic interpretation videotape.

1421 SWIS - 57 min - 1/2"

Provides general information about the Satellite Weather Information System (SWIS). It does not provide specific training on how the system operates, nor does it provide satellite interpretation training. However, it does provide very valuable information about SWIS program objectives and SWIS capabilities.

1422 THE CLOUD FEATURES OF COLD FRONTAL ZONES OVER OCEANIC REGIONS (1987) - 28 min - 1/2"

Detailed features of cold frontal zones associated with mature mid-latitude cyclones are examined from the satellite perspective. Frontal zones are illustrated using visible and infrared GOES pictures in motion. Relationships between frontal positions, upper-level features, and frontal cloud bands are shown.

1423 BASIC SATELLITE IMAGERY INTERPRETATION TECHNIQUES (1987) - 1 hr 24 min - 1/2"

This videotape consolidates the following four videotapes: #1417, #1418, #1419, and #1420.

1424 WEATHER SATELLITE IMAGERY INTERPRETATION (1991) - 2 hrs 13 min - 1/2"

The following satellite training modules are consolidated onto the videotape: The understanding of Weather Systems; The Initiation of Convection; The Importance of Thunderstorm Outflow Boundaries in the Development of Deep convection; Fog Identification and Interpretation; The Cloud Features of Cold-Frontal Zones Over Oceanic Regions; and Relative Motions Associated With Moving Cloud Systems.

1425 SPACE SYSTEM/GOES LAUNCH (1984) - 28 min - 1/2"

This information video discusses satellite technology and the satellite GOES I. It shows GOES I's high quality imagery data, and how it enhances the forecaster's ability by providing detailed weather observation. The actual launching of the GOES satellite is included on the video along with news clips from the television shows Good Morning America, CNN, WCPX channel 6 in Florida, and the SCI-FI channel.

SERIES 1500 - STORMS/LIGHTNING

1508 CHARACTERISTICS OF LIGHTNING AND ITS RELATIONSHIP TO THUNDERSTORMS (1986) - 60 min - 1/2"

This is a videotape of a seminar by Ken Mielke. It discusses many aspects of electrification in the atmosphere including the following topics: the fair weather electrical field; thunderstorm charge separation; lightning discharge; positive lightning strikes; temporal and spatial relationships between lightning and convection; lightning activity associated with severe weather.

1524 CANYON WINDS ALONG THE WASATCH FRONT (1990) - 60 min - 1/2"

This is a videotape of an AMS Meeting, Utah Chapter, in which Dr. John Horel, University of Utah, gives a presentation on the canyon winds along the Wasatch Front.

1525 SUPERSTORMS (1991) - 30 min - 1/2"

Although Superstorms shows very little in the way of what to do during a severe storm, it does provide a compelling visual representation of the destructive power of nature and the disregard humans have shown by continually building in flood plains and coastal regions and by erecting structures that are not adequately strengthened to withstand the forces of high winds. This videotape intersperses footage of hurricanes, tornadoes, and floods with interesting superstorm trivia. Although this videotape is not intended to be a training tool, it does display the reasons people need to prepare for and respond to severe weather.

1526 EXAMPLE OF A THUNDERSTORM'S ELECTRIC FIELD (1989) - 10 min

This short color videotape, filmed on a home video camera, shows a family on an outing on Flathead Lake in northwest Montana. Thunderstorms are forming over the lake, setting up an electric field between the clouds and the surface of the lake. The hair of the occupants in the boat literally stands on end--a very dangerous situation. The video should be used as part of a lightning safety demonstration.

1527 EVERYDAY WEATHER: THUNDERSTORMS (1987) - 24 min - 1/2"

This videotape is prepared by The Weather Channel. It explains, step-by-step, the development of thunderstorms and describes their dangers. It also discusses subjects such as jet streams, up drafts, down drafts, microbursts, flash floods, hail, funnel clouds, tornadoes, down bursts, and wind shear. The video also briefly mentions the Doppler radar and wind profiler. This video is geared for public viewing.

1528 STORM WATCH (1995) - 30 min - 1/2"

Storm Watch introduces the storm spotter and reveals the unique characteristics of the severe thunderstorm they must know. Protecting our communities from these dangerous storms is the storm spotter. The storm spotter relays eyewitness accounts of severe weather activity to the National Weather Service and local emergency management officials. Their information is essential to the success of any local weather warning system.

SERIES 1600 - TORNADOES

1601 TORNADO - A SPOTTER'S GUIDE (1977) - 15 min - 1/2"

This videotape was prepared by the Disaster Preparedness Office, NWS, and National Severe Storms Lab, ERL. Excellent training film on how to identify tornadoes and how to recognize the cloud formations associated with tornadoes.

1602 TERRIBLE TUESDAY (1984) - 23 min - 1/2"

Describes the dangers of tornadoes, including spectacular footage of actual tornadoes. It concentrates on events surrounding the Wichita Falls, Texas, tornado that killed 46 people. It describes forecast operations of the National Severe Storms Forecast Center and research efforts at the National Severe Storms Lab. The film discusses tornado disaster preparedness--how to respond when a tornado warning is received.

1603 TORNADO (1984) - 60 min - 1/2"

A public television presentation by NOVA on tornadoes. Shows some spectacular footage of actual tornadoes. Discusses efforts by NSSL storm chasers to observe tornadoes and place portable automated observing equipment in the path of a tornado. Also mentions the use of Doppler radar at NSSL in detecting and studying tornadoes in Oklahoma. Conditions conducive to tornado spawning thunderstorms and mesocyclones are described.

1604 BEFORE THE WARNING - 15 min - 1/2"

This documentation was produced in cooperation with WSFO Cleveland and the media. It is informative and provides life-saving information about tornadoes and severe thunderstorms. The emphasis is on using spotters and on warning dissemination.

1605 GREAT SALT LAKE WATERSPOUT AND FUNNEL CLOUDS (1986) - 10 min - 1/2"

The first half of the videotape contains footage from a well-defined waterspout that occurred over the Great Salt Lake on June 1986. It also contains footage of funnel clouds that occurred a little later a few miles northeast of the waterspout. The second half of the videotape contains footage from the Minneapolis tornado of July 18, 1986 that was broadcast live by KARE-TV as the tornado was in progress.

1606 DAY OF THE KILLER TORNADOES (1976) - 15 min - 1/2"

Produced by NWS/Defense Civil Preparedness Agency. This videotape is comprised of dramatic footage of the actual tornadoes on April 3-4, 1974, that hit 11 states, killed 307 people, and contained 147 twisters. It illustrates how the warnings, preparedness planning, and coordination of Emergency Operating Centers were effective in saving lives.

1607 NEOSHO (1973) - 10 min - 1/2"

Tornado that hit Neosho, Missouri on April 24, 1973. Videotape shows a recreation of that day, actual footage of the tornado, how the town had preparation, drills, and use of their communication center, warning systems, local TV and radio stations, and NWS paid off.

1608 MINNEAPOLIS TORNADO (1986) - 13 min - 1/2"

This videotape consists of video from the July 18, 1986 tornado in progress in the city of Minneapolis. The footage was shot from a helicopter. It includes narration of events during the course of the tornado, including a description of damage occurring. Produced by KARE-TV, Minneapolis. Contains similar footage to 1605, but different narration.

1609 EDMONTON TORNADO (1988) - 30 min - 1/2"

This excellent videotape was produced by the Canadian Atmospheric Environmental Service. It starts out with a brief review of the synoptic situation leading up to the tornado. This tornado, which was on the ground for about an hour and resulted in 27 fatalities, is captured on videotape by several eyewitnesses using video cameras. The quality of the videotape is remarkable, given the conditions at the time of the taping. Up to this date, it is probably the best and most complete footage of a violent F4 tornado.

1610 TORNADO GENESIS (1988) - 65 min - 1/2"

This videotape features Dr. Roger Wakimoto, UCLA, and Jim Wilson, NCAR, and their new theory on how tornadoes form. Their ideas depart considerably from accepted theory, but they show convincing evidence that less intense tornadoes (F1 - F3) often form from low-level shear vortices along boundaries and are "stretched" into tornadoes by a developing thunderstorm updraft.

They speculate that this mechanism may also explain super cell tornadoes. Very interesting and thought-provoking. A copy was sent to each WR WSFO and Las NSO.

1611 BRIDGER-WARREN, MONTANA TORNADO (1990) - 7 min - 1/2"

Footage of a tornado approaching Bridger-Warren, Montana, May 24, 1990.

1612 AMS MEETING 4/20/89 -- RALEIGH TORNADO (1989) - 75 min - 1/2"

Videotape of the presentation to the AMS on the analyses of the Raleigh tornado. Includes attachments: memo and two papers.

1613 BAKERSFIELD VALLEY, TX TORNADO (1990) --21 min - 1/2"

The videotape surveys the damage caused by the Bakersfield Valley Tennessee tornado in June 1990. The tornado path extended 16 miles, caused extensive damage, and killed two people. Tornado strength was estimated at F4 during a portion of its lifetime. Appropriate for all audiences.

1614 THE DEADLIEST STORM (1992) - 90 min - 1/2"

Footage of tornadoes that struck southern Kansas on April 26, 1991, and the clean up in various towns during the week after. Footage includes raw video from news crew that was caught underneath overpass as tornado passed on top of them. Also, a lot of amateur video footage. Most of the tape is a series of news reports on the cleanup and the people the storm affected. Good reminder of why we are in business, but rather long.

1615 TORNADO VIDEO CLASSICS (1992) - 117 min - 1/2"

Tornado View Classics is a collection of tornado footage dating from 1925 to 1992. As work on the project began, footage that was either little known or forgotten was uncovered. This is probably the most extensive collection of tornadoes on one videotape. A 48-page booklet, describing each occurrence, also accompanies the videotape and is designed to provide added information on the each scene.

1616 SOUTHERN CALIFORNIA TORNADOES (1993) - 60 min - 1/2"

This lecture, given by Jack Hales (SELS), gives detailed explanation of tornadoes in California, from where they occur and recognizing them to their wind speed. He also discusses storm movement and how it is determined and factors that affect it. The video is mainly for meteorologists, not for public.

SERIES 1700 - WEATHER (GENERAL)

1704 COMMUNITY RESPONSE TO NATURAL HAZARD WARNINGS (1982) - 45 min - 1/2"

The subject of this presentation is response to weather hazard warnings. It reports on a University of Minnesota study conducted by three social scientists. Field surveys were conducted before and after occurrence of tornadoes, flash floods, and hurricanes. Dissemination and response problems are discussed.

1706 UNIVERSITY OF WISCONSIN GS1000 STELLAR GRAPHICS (1988) - 12 min - 1/2"

Demonstration of new GS1000 Stellar 3-D graphics at the University of Wisconsin. Visualization examples include simulated thunderstorm development in terms of theta surfaces and mixing ratio contours; manipulation of GOES imagery loops; theta deviation surfaces, low pressure areas, wind trajectories, and hail location in another thunderstorm simulation; and similar parameters in a simulated volcanic eruption. Capabilities of the graphics system include the ability to interactively change the viewing perspective, change the zoom, turn on and off parameters, change colors, manually or automatically step the time interval, etc. This is an exciting breakthrough in the visualization of data sets.

1707 ENVIRONMENTAL RESEARCH LABORATORIES (1989) - 24 min - 1/2"

This videotape discusses the type of environmental research being conducted at the 10 ERL laboratories. Topics include NEXRAD, wind profilers, forecast algorithms, ocean services, solar forecasting, and the fisheries. This videotape would be appropriate for schools or other groups who want a general overview of atmospheric and oceanic research activities.

1708 INTERACTIVE 4-D McIDAS (1990) - 41 min - 1/2"

This videotape demonstrates real-time, interactive, 4-dimensional visualization of atmospheric dynamics using McIDAS Software. Bill Hibbard and Dave Soutek of the University of Wisconsin use McIDAS to study a numerically modeled severe storm.

1709 STORMWATCHER (A Video Spotters Guide) (1994) - 44 min - 1/2"

This video, shot in the midwestern U.S., traces the development of thunderstorms. It includes excellent footage of wall clouds, shelf clouds, rotor clouds, funnel clouds, and tornadoes. The video describes how to observe thunderstorms (even at night?), while taking the viewer "on the road" in search of severe storms. This is an excellent resource for weather observers, spotters, and forecasters. The video underlines the importance of Doppler radar.

1710 UTAH'S WEATHER WONDERS (1995) - 30 min - 1/2"

"Utah's Weather Wonders" shows you lightning, flooding, avalanches and tornadoes at their fiercest and tells you how to avoid becoming the next victim. This video is narrated by News 4 Utah Meteorologist Dan Pope.

1711 U.S. GLOBAL CHANGE DATA INFORMATION SYSTEM (1998) - 9 ½ MIN - 1/2"

Illustrates how government agencies use Global Change Data in their daily operations. This video includes the web addresses and examples of several relevant homepages.

1712 FORECASTING THE FUTURE: EL NINO (1998) - 6 MIN - 1/2"

This video gives a brief overview of the causes and effects of ENSO and how ENSO events have been tracked and more recently, forecasted.

SERIES 1800 - MARINE

1801 HYPOTHERMIA/SEA SURVIVAL (1983) - 45 min - 1/2"

There are two programs on this videotape. The first is on hypothermia. It defines hypothermia and gives steps to counteract it. The second is on sea survival. It provides steps on surviving at sea when a ship is in trouble.

1802 COLD WATER NEAR DROWNING/SHORE SURVIVAL (1983) - 45 min - 1/2"

There are two programs on this videotape. The first deals with rescuing and saving victims who have nearly drowned or appear to have drowned in cold water. The second is on surviving on shore after a ship wreck.

1803 MARINER REPORTS FOR SAFETY AT SEA (1986) - 10 min - 1/2"

Commercial fishermen version. Explains Mariner Reporting Program (MAREP) and need for weather reports from commercial fishing vessels. Scenes of rough seas from the eyes of a commercial fisherman, transmission of weather report to MAREP radio station ashore, and marine forecaster using MAREP to make a forecast make up this rollicking film of ocean adventure.

1804 MARINER REPORTS FOR SAFETY AT SEA (1986) - 10 min - 1/2"

Recreational boater version. Explains Mariner Reporting Program (MAREP) and need for weather reports from recreational boaters: scenes of sailboat underway, transmission of weather report to MAREP radio station ashore, and marine forecaster using MAREP to make a forecast.

1805 SEA OF JAPAN TSUNAMI - MAY 26, 1983 (1990) - 28 min - 1/2"

This video was produced as a television documentary by NHK-TV in Japan. It was edited and dubbed with an English translation by NOAA PMEL in Seattle. This video has some never before captured footage of tsunami effects on bays and harbors in Japan as taken by amateur cameramen at the scene. The video will be of interest not only to coastal emergency management officials but school groups and general audiences as well.

1806 TSUNAMI - 28 min - 1/2"

Documents the phenomenon and potential dangers of seismic sea waves frequently called tidal waves. Explains the Pacific Tsunami Warning System and shows preventative measures taken at

a municipal level. This is mostly a poster-type presentation, except for actual shots of preparation and some dramatic scenes of the Alaska quake and Crescent City wave. Adult.

1807 SEA TEK: TSUNAMI (1996) - 8:34min - 1/2"

SERIES 1900 - RADAR

1902 UNISYS: NEXT GENERATION WEATHER RADAR - 12 min - 1/2"

This videotape presents an overview of the NEXRAD system. It describes its capabilities in understandable terms. It briefly touches on the Doppler principle. It shows where NEXRAD radars will be located and discusses various weather phenomena that will be detectable by NEXRAD.

1903 BEGINNING DOPPLER PRINCIPLES FOR NEXRAD (1988) - 30 min - 1/2"

This 30-minute videotape begins by reviewing Doppler theory and the technological developments in the radar field leading up to NEXRAD. The basic components and characteristics of NEXRAD are covered, including a fairly brief technical discussion on how radar reflected energy is processed and the Doppler shift determined. The three basic products (reflectivity, radial velocity, and spectrum width) are discussed next followed by an excellent session on range folding and velocity aliasing. This videotape was developed as a Remote Training Module by NWSTC and has an associated workbook. However, it is not necessary to have this workbook when viewing the videotape.

1907 NEXRAD: NEXT GENERATION WEATHER RADAR (1988) - 20 min - 1/2"

This video, developed by UNISYS, gives a basic overview of the NEXRAD system and operational plan. It reviews the basics of conventional and Doppler radar physics, and describes the different NEXRAD displays and derived products. It briefly discusses the advantages of NEXRAD for different programs. This video (#1907) has a second segment (7 minutes). Terminal Doppler Weather: A Status Report (FAA). The first segment is the same as videotape #1902.

1908 THE PROMISE OF NEXRAD: NEXT GENERATION RADAR (1988) - 53 min - 1/2"

Module 2 of an AMS short course: This section presented by Les Lemon of UNISYS. It begins with the UNISYS video, "NEXRAD: Next Generation Weather Radar." The rest of the discussion is a general overview of the NEXRAD program. Slides are used to help to explain Doppler radar signatures of mesocyclones, tornadoes, and hurricanes, and aid in describing the applications of NEXRAD, the physical components, base products and derived products, workstation capabilities, and operator options. The discussion ends with a question and answer session.

1909 THE WRIST TECHNIQUE (1984) - 20 min - 1/2"

This videotape teaches a technique developed by NWSTC Radar Instructor Dennis Lowden for identifying severe thunderstorms. Called Weather Radar Identification of Severe Thunderstorms (WRIST), the method is based on the concepts developed by Browning and Lemon.

1910 NEXRAD IS NOW (1991) - 31/2 min - 1/2"

This short video shows the Melbourne, Florida, and Sterling, Virginia, WSR-88Ds being erected. The scenes were shot by the office MICs and the narration was provided by Dr. Friday. (Each AM/MIC was sent copies.)

1911 NORMAN WSR-88D/ASOS (1991) - 4:15 and 4:13) - 1/2"

The WSR-88D segment was created by the NEXRAD Operational Support Facility. It shows the outstanding performance of the WSR-88D during a major tornado episode in Kansas. The segment is nicely done and not too technical. The AMOS segment was made by AAI, the AMOS contractor. It is an expanded version of a one-minute commercial made for the stockholders. For NWS purposes, the main use of this segment would be to view the many shorts of AMOS equipment at Dulles International Airport.

1912 HYDROMETEOROLOGICAL PRECIPITATION PROCESSING (1991) Tape 1 - 26 min - Part 1 and 2 - 1/2"; Tape 2 - 38 min - Part 3 and 4 - 1/2"

These two videotapes represent the NEXRAD hydrometeorological precipitation processing module, a pre-requisite for anyone attending the four-week Operational Support Facility WSR-88D course in Norman, Oklahoma. These two videotapes review the history of precipitation processing and estimation using radar technology and explore the capabilities the WSR-88D represents. A workbook and tests accompany the videotapes. Each office will receive its own copy of this module one year before the estimated delivery date of their WSR-88D.

1913 WSR-88D PERFORMANCE PRESENTATION (1992) 2 hrs

Don Burgess, Operational Support Facility, Norman, OIC, presents a NEXRAD briefing to the staff of WSFO Los Angeles. The briefing with an overview of the WSR-88D hardware/software, communication systems, operational modes, algorithms, and implementation procedures. The second portion of the briefing focuses on performance characteristics of the WSR-88D, especially with regard to a topography and model environment complex of the urban U.S. Although some of the implementation dates and procedures may be dates, this is a good general discussion of the WSR-88D.

1914 ADVANCED WSR-88D TRAINING (1995) - 40 min - 1/2"

This lecture presented by Rich Fulton discusses RFC's and how they use precipitation data in their operation. His four main discussion points include status of stage II and III implementation

at RFC's an overview of stage II and III precipitation processing, dealing with mountains in stage II, briefly discussing status of RGDAC implementation. He also explains what products RFC's use and how they use them. The video is directed towards meteorologists and includes high quality visual aids.

1916 U.S. DEPARTMENT OF COMMERCE

a. NORMAN WSR-88D PERFORMANCE DURING KANSAS TORNADO (1991) - 4:15
-1/2"

b. AUTOMATED SURFACE OBSERVING SYSTEM (1991) -- 4:13 -- 1/2"

The first portion of this video deals with Doppler radar and its usage in detecting tornadoes and other severe storms. The second segment discusses AMOS and its role in the modernization plan. It shows how the use of AMOS aids pilots in the planning and execution of their flights. The segments are introduced by Dr. Friday, Assistant Administrator for Weather Services.

SERIES 2000 - MISCELLANEOUS

2005 SHEF (1986) - 60 min - 1/2"

This videotape was prepared by Phil Pasteris of the Northwest RFC. It discusses the history of the Standard Hydrologic Exchange Format (SHEF) and the reasons for its development. The structure and mechanics of the SHEF code are examined using products from the AFOS database. This videotape will aid the viewer in reading and understanding products produced in the SHEF code.

2007 SURVIVING THE COLD (1985) - 17 min - 1/2"

Accounts of six individuals in three separate incidents caught in their vehicles in snow storms and the steps they took to survive the ordeal until help arrived. Film points out correct survival procedures. All ages.

2020 EMERGENCY BROADCAST SYSTEM PRESENTATION (1990) - 29 min - 1/2"

This videotape gives an overview of the Emergency Broadcast System, what it is and how it operates.

2021 SOLAR ECLIPSE (1991) - 10 min - 1/2"

This is short videotape showing the moon's shadow traversing the earth from the perspective of GOES-7 during the total solar eclipse of July 11, 1991. This videotape is in black and white and shows both a full disk and sectorized view of the event. No sound or narration.

2022 FEGLI: Federal Employees' Group Life Insurance Program (1999) - 30 min - 1/2"

This is a short video which discusses the different types of insurance the FEGLI program offers. It also gives some general guidelines to keep in mind when choosing your type of coverage. Video script disk included.

SERIES 2100 - COMPUTERS

2104 INTRODUCTION TO COMPUTERS/DOS (1988) - 1/2" - Two Videos 133 min & 111 min

The first part of this course is designated to acquaint you with what a computer is, what its component parts are, and how it works, and what it can do for you. The second part of the lesson will teach you about DOS and show you how to use the many powerful DOS commands, turning your computer into the valuable tool you expect it to be.

2105 TROUBLESHOOTING AND MAINTAINING YOUR IBM PC AND COMPATIBLES (1988) - 1/2"

This videotape focuses first on general preventative maintenance, then how to figure out what's wrong when problems arise. Separate chapters also examine components, maintenance, common troubleshooting techniques and adjustments.

2106 THE COMPLETE C COURSE (1988) - 1/2" --Ten-Video Set

Everything you wanted to know about "C" but were afraid to ask--this 10-set video course covers "C."

2108 PERFECT PUBLISHING WITH WORDPERFECT (1990) - 1/2" - Two-Video Set and 5-1/4" Diskette (Learnkey, Inc.)

This videotape presents examples of good graphic design principles plus interviews with design professionals to show how to improve newsletters, reports, etc. Videotape features chapters on margins, columns, typefaces, borders, boxes, headers and footers, graphics, styles, headlines, subheads, and print options.

2111 IBM - WORKING WITH OS/2 VERSION 2 (1992) - 1/2"

This video course consists of a videotape and a comprehensive workbook. It is designed to provide a general summary of the operating system, familiarize you with many of the useful features of OS/2 Version 2, and give you "hands-on" experience.

2112 THE WORLD OF C++ (1993) - 1/2"

The instructional material (two videotapes, one workbook, and diskette) will teach you the fundamentals of C++ using a set of 21 lessons. Prerequisites for C++ are a working knowledge of the basics of C and programming experience in C.

2113 WORDPERFECT DESKTOP PUBLISHING VERSION 6 (1994) - 1/2" - 2 hrs

WordPerfect has the capability to generate high quality output, and this easy-to-follow video will teach you how. You will learn to create newsletters, brochures, letterheads, and many other professional quality documents as you deal with advanced printing, graphics, and other important functions of the word processor. Diskette included.

2114 WORDPERFECT UPDATE VERSION 6 (1994) - 1/2" - 2 hrs

This informative and easy-to-follow video tutor is designed to teach the new features of WordPerfect, 6.0. If you are a current user for WordPerfect, this is the fastest way to become productive with WordPerfect 6.0. Learn to use the new dialog boxes, new macro power, better drag and drop techniques, and much more. Diskette included.

2115a PARADOX 5.0 BEGINNING (1994) - 1/2" - 2 hrs

Paradox, as a relational database, is one of the most powerful programs available today, but it can only perform if you know how to use it. This video presentation will take you through the installation of the program and onto the fundamental commands in easy-to-follow steps. You will also learn many standard database terms and procedures.

2115b PARADOX 5.0 INTERMEDIATE (1994) - 1/2" - 2 hrs

Paradox Intermediate will teach you many of the more complex capabilities of Paradox.

2115c PARADOX ADVANCED (1994) - 1/2" - 2 hrs

Paradox Advanced will teach you many of the more complex capabilities of Paradox. You will learn to use normalized tables, advanced query tables, ASK operators, and much more.

2116a QUATTRO PRO 6.0 BEGINNING (1995) - 1/2" - 2 hrs 10 min

This informative and easy-to-follow video tutor is designed to teach new features of Quattro Pro, 6.0.

2116b QUATTRO PRO 6.0 INTERMEDIATE (1995) - 1/2" - 2 hrs 10 min

Quattro Pro 6.0 Intermediate will teach you many of the more complex capabilities of Quattro Pro 6.0.

2116c QUATTRO PRO 6.0 ADVANCED (1995) - 1/2" - 2 hrs

Quattro Pro 6.0 Advanced will teach you many of the more complex capabilities of Quattro Pro 6.0.

2117 PRESENTATIONS: INTRODUCTORY SKILL COURSE (1995) - 1/2" - 47 min

A variety of practical work-related examples are used throughout this video to help you see how easy it is to develop effective presentations from start to finish. You will learn how to create professional looking slides with text, charts, and graphics, then organize and present the finished product.

2118 PRESENTATIONS: INTERMEDIATE AND ADVANCED SKILLS COURSE (1995) - 1/2" - 47 min

A variety of practical work-related examples are used throughout this video to help you see how easy it is to become a Presentations pro-from how to enhance basic slides with built in special effects, to creating speaker notes and handouts.

2119 WORDPERFECT: INTRODUCTORY SKILLS COURSE (1995) - 1/2" - 47 min

A variety of practical work-related examples are used throughout this video to help you understand the basics of WordPerfect 6.1. You will learn how to create, edit, print, and manage documents, as well as enhance their appearance with templates and fonts.

2120 WORDPERFECT: INTERMEDIATE AND ADVANCED SKILLS COURSE (1995) - 1/2" - 41 min

A variety of practical work-related examples are used throughout this video to help you access the latest innovations in WordPerfect 6.1; from creating and using your own formatting styles, tables, headers, and footers, to customizing toolbars and automating repetitive tasks with macros.

2121 PERFECT OFFICE: INTRODUCTORY SKILLS COURSE (1995) - 1/2" - 47 min

A variety of practical work-related examples are used throughout this video to help you use the integrated environment of PerfectOffice. You will learn how to use QuickTasks to automate your work; use InfoCentral to manage your personal appointment files; add graphics to a presentation; and edit and embed objects within other PerfectOffice applications.

2122 PERFECT OFFICE: INTERMEDIATE AND ADVANCED SKILLS COURSE (1995) - 1/2" - 42 min

A variety of practical work-related examples are used throughout this video to help you get the most from the integrated environment of PerfectOffice, from the Spell Check to preparing your document for final printing to developing a presentation and slide show to professionally communicate your ideas.

SERIES 2200 - DIVERSITY/EEO

2201 OVERCOMING MATH ANXIETY (1979) - 60 min - 1/2"

Featuring Sheila Tobias, author of a book by the same name. Tobias discusses her research findings and the consequences of math avoidance by women. She shows how math avoidance serves as a filter to prevent people from entering occupations that generally are well paid and that provide good advancement opportunities.

2202 WHEN YOU GROW UP (1973) - 13 min - 1/2"

Videotape suggested for use in school visitation program and/or career education program. (Results of a survey analyzed by June Bacon/Bercey indicated that 97 percent of the viewers -- teachers, parents, and over a thousand students in grades four through eight -- learned something from the film, and 68 percent of the students wanted to become meteorologists after viewing the film). Describes various jobs in the Weather Service. Grades 1 through 8.

2203 NORTH AMERICAN INDIAN HERITAGE (1978) - 103 min - 1/2"

This tape contains four short color videos. "Gatecliff" is about the search for ancient Indian cultural remains in a remote area of Nevada. "North American Indians Today" is a condensed version of "The New Indians", parts one and two. These videos also contain a narrative of modern Native Americans and their quest to recapture their ancient heritage.

2204 BLUE EYES? BROWN EYES? (1989) - 42 min - 1/2"

TV personality Oprah Winfrey and educator Jane Elliott present an exercise in prejudice. An excellent video.

2205a WHAT YOU ARE IS WHERE YOU WERE WHEN...PART 1 - 45 min - 1/2"

Explains how we are an integration of our past experiences.

2205b WHAT YOU ARE US WHERE YOU WERE WHEN...PART 2 - 45 min - 1/2"

2206 SERIES ON SEXUAL HARASSMENT AMONG GOVERNMENT WORKERS (1983) - 18 min -- 1/2"

Filmed by News Seven WJLA TV, November 9, 10, and 11, 1983. Statistical information is provided, complainants provide case data, and violations of law are reviewed. After situations are cited, viewers are asked, "Sexual Harassment or Not?" followed by the answer.

2207 MULTICULTURAL WORKFORCE (1995) - 90 min - 1/2"

This videotape is produced by Ross and Company and was shown at the 1995 Diversity Workshop. The speaker, Byron Kunisawa, spoke on the following topics: the melting pot concept, organizations, organizations and culture, and organizational barriers, and majority and minority views on organizational life. He concluded his talk with a discussion session.

2208 MOVING BACK INTO THE LIGHT (1995) - 15 min - 1/2"

Clinical depression afflicts approximately 1 in 5 women and 1 in 10 men at some point in their life. This video tape helps expose the myths and correct misconceptions about the illness and its treatment. The video emphasizes that depression is a medical illness, people with depression are not "crazy." Doctors are trained to treat depression, and treatment can be very effective for most patients.

2209 WORKPLACE VIOLENCE: FIRST LINE OF DEFENSE (1994) - 30:06 - 1/2"

First Line of Defense, has a four-fold purpose. 1. To make organizations aware of the potential for violence in the workplace. 2. To increase ability to recognize the early warning signs of potentially violent person or situation. 3. To show how to record incidents indicative of a potential problem. 4. To encourage employees to report suspicious incidents to the right channels.

2210 MYTHS VS. FACTS: HOW TO RECOGNIZE AND CONFRONT SUBTLE SEXUAL HARASSMENT - 27 min - 1/2"

This video helps to recognize and gives counsel on sexual harassment.

2211 SAME WALK, DIFFERENT STREETS - GERI JEWELL ON STAGE - 30 min - 1/2"

Geri Jewell achieved international celebrity when she became the first performer with a disability to win a regular role in a television series. As the beloved "Couse Geri" in the NBC comedy, Facts of Life, she challenged viewers by defying and dispelling myths about disability. In this video taped before a live audience, Geri Jewell uses her unique comedic talent to inspire appreciation of ability, diversity, and human potential.

2212 THE NOAA DIVERSITY COUNCIL PRESENTS SFA: SURVEY/FEEDBACK/ACTION - 10 min - 1/2"

This 2 part video produced by NOAA gives the background and directions for the SFA survey.

2213 MAN TO MAN - 19 min - 1/2"

"Man to Man" is about same sex discrimination. It is an ABC News 20/20 segment with John Stossel. In 1994 there was a District Court decision that a man, Mr. Joseph Oncale, had no cause of action under Title VII for harassment by male co-workers. He appealed and the Supreme Court made a landmark decision in 1998 (a 9-0 ruling) that same sex harassment is actionable under Title VII.

2214 FORGET FOR SUCCESS: WALKING AWAY FROM OUTDATED, COUNTERPRODUCTIVE BELIEFS AND PEOPLE PRACTICES - 22 min - 1/2

"Forget for Success" is about getting away from outdated, counterproductive beliefs and people practices. The video first presents a scenario followed with a narrator (instructor) pointing out beliefs and ways of thinking which may not be totally accurate. Examples are given, then a reason to forget it and a different way of looking at it.

2215 DIVERSITY: FOOD FOR THOUGHT - 20min - 1/2"

This trainer's Toolkit provides you with tools to teach employees how to value diversity in your workplace. Employees will learn how to acknowledge differences and successfully build relationships with people of diverse backgrounds. Kit includes video, leader's guide, overhead transparencies, and Diversity Diner menu card.

2216 HOW TO ACCESS HUMAN POTENTIAL IN THE WORKPLACE - 126 min - 1/2"

Dr. Kim Brough shares insights to help create a working environment within NOAA where all employees are appreciated, respected, and valued. This video is designed to help employees to better understand our differences and organizational cultures which influence our behavior.

2217 THE FOUR ROLES OF LEADERSHIP - 156 min - 1/2"

Leadership comes in all forms and dimensions. This video talks about the four prominent roles of leadership: pathfinder, modeling, aligning, and empowering. It is through these roles that leadership can be put into place.

2218 DIVERSITY - 120 min - 1/2"

This video deals with the issue of understanding differences in the workplace. Harvey Coleman shares his views on how to advance in an organization. He shares how to understand the culture of how an organization operates and that this culture may be critical to a person's chance and ability to perform in an organization.

2219 DIVERSITY AND THE WHITE MALE - 115 min - 1/2"

Tim Stranges provides insights about white males and diversity and how an understanding of everyone contributes to the gain for NOAA's management diversity initiative.

2220 DEVELOPING A MULTI-LINGUAL EAR (PARTS I & II) - 206 min - 1/2"

This video focuses on phonetic practices common to various language groups. Attention is given to the capability of native English speakers to better comprehend non native speakers of English. This video also discusses some common grammatical differences between English and other languages and tips to help participants learn how to ask questions that assist in the comprehension process.

2221 SEVEN HABITS OF HIGHLY EFFECTIVE PEOPLE (PARTS I 7 II) - 1/2"

Mark McConkie explains how knowing the seven habits of highly effective people can help us in managing and understanding diversity. Balancing goals, shared visions, building the skills of yourself and others and learning these different skills will help manage diversity in the workplace.

2222 SEXUAL HARASSMENT: SERIOUS BUSINESS - 25 min - 1/2"

This video program is designed to help employees, as well as supervisors, managers and other personnel, to understand the impact of hostile environments and quid pro quo harassment on the individual and the company, recognize and stop harassing behavior and replace it with respect, and to prevent sexual harassment in the workplace by promoting open lines of communication.

2223 MAURITIUS - CELEBRATING DIFFERENCES - 26 min - 1/2"

Celebrating Differences: Mauritius will teach you how to create an environment where individuals, teams, and organizations achieve synergistic results through valuing diversity. By implementing the principles presented in this video workshop, you and your associates will attain greater personal, professional, and organizational effectiveness. Workbook included.

2224 A WINNING BALANCE - 34 min - 1/2"

2225 FLASHPOINT WHEN VALUES COLLIDE - 73 MIN - 1/2"

2226 A COSTLY PROPOSITION - 1/2"

2227 A TASTE OF CULTURE - 1/2"

APPENDIX C - SLIDE INDEX

- SERIES 100 - METEOROLOGICAL WORKSTATIONS
- SERIES 200 - AIR POLLUTION
- SERIES 300 - ATMOSPHERE/CIRCULATION/PROFILERS
- SERIES 400 - AVIATION
- SERIES 500 - CLOUDS
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- SERIES 2200 - DIVERSITY/EEO

APPENDIX D - SLIDE DIRECTORY

SERIES 100 - AFOS

102 PROFS RT85 - 20 slides with narrative (1 set)

SERIES 200 - AIR POLLUTION

201 EFFECTIVE STACK HEIGHT - slides, cassette, books by Air Pollution Training Institute

202 AIR POLLUTION - slides, cassette

203 AIR POLLUTION METEOROLOGY - slides (2 sets)

SERIES 300 - ATMOSPHERIC/CIRCULATION

301 THE ATMOSPHERE - slides and narrative

SERIES 400 - AVIATION

403 HOSTILE ENVIRONMENT - slides and cassette - 39 min/color

Highlights the effects of wind shear and is suggested for showing to pilots. Narrated by Danny Kaye. (McDonnell Douglas Corp.)

SERIES 500 - CLOUDS

501 CLOUDS - slides

Virga, whirlwinds, smoke plumes, etc. - useful in spotter training.

502 CLOUD SECRETS - slides

503 METEOROLOGY ABOVE THE CLOUDS - slides and narrative (1 sets)

504 CLOUDS - 1 slide tray, 35 slides

SERIES 600 - ENVIRONMENT

601 GREENHOUSE EFFECT (1988) - 1 set (13 slides) - no text, therefore of limited use.

This slide set was prepared by Len Snellman as part of a presentation to a lay person group in Salt Lake City. The purpose of this presentation was to examine climatic change and the role of the Greenhouse effect to potential global weather changes. Len uses easy to understand examples to illustrate the complexity of climate, past weather regimes, cycles in weather and the global thermal budget. This set would be excellent for schools and other lay groups.

SERIES 700 - FIRE WEATHER

701 FIRE WEATHER - slides

Designed for the non-meteorologist, but parts of this set are useful for new fire weather meteorologists. About 200 slides.

703 FIRE WEATHER, AGRICULTURAL SERIES - 217 slide set - 7 parts(text in library)

Slides from diagrams included in the text book entitled Fire Weather, Agricultural Handbook No. 360, U.S. Department of Agriculture, Forest Service.

SERIES 800 - FLOODS/FLASH FLOODS

804 FLASH FLOODS MYTHS AND REALITIES - slides and cassette

805 EARLY FLOOD WARNING - slides

SERIES 900 - FORECASTING

901 NWS METEOROLOGY IN THE 1980s - slides, cassette, narrative (1 set)

SERIES 1000 - FRONTS/AIR MASSES

1001 AIR MASSES AND FRONTS - slides (packet AP-3) - Appropriate for schools

SERIES 1100 - HURRICANES AND TROPICAL SYSTEMS

1101 HURRICANE CLIMATOLOGY - slides and narrative

1103 HURRICANE PREPAREDNESS - slides and narrative (3 sets)

1104 HURRICANE FREDERIC - slides and narrative (1 set)

1106 HURRICANE ALICIA - slides and narrative (2 sets)

1107 TYPHOONS - GENERAL CHARACTERISTICS I - slides, cassette, and narrative

1108 TYPHOONS - GENERAL CHARACTERISTICS II - slides, cassette, and narrative

1109 TYPHOONS - DEVELOPMENT - slides, cassette, and narrative

1110 TYPHOONS - DEVELOPMENT AND DECAY - slides, cassette, and narrative

1111 TYPHOONS VI - MOVEMENT PREDICATION SUPER TYPHOONS - slides, cassette, and narrative

1112 TYPHOON VII - FORECASTING INTERACTION WITH THE OCEAN - slides, cassette, and narrative

1117 EDUCATIONAL PACIFIC I - slides, cassette, and narrative

1118 EDUCATIONAL PACIFIC II - slides, cassette, and narrative

1119 TROPICAL CYCLONE STRUCTURES - slides, cassette, and narrative

1120 TROPICAL METEOROLOGY TRAINING - INTRODUCTION - slides, cassette, and narrative

1123 HURRICANE HUGO - 1990 - (1 set) slides and narrative

1124 HURRICANE ANDREW - 1992 - (4 sets) slides and narrative

SERIES 1200 - MANAGEMENT

1201 WRITING AND BROADCASTING FOR NWR JANUARY 1981 - slides and cassette

1202 OVERALL MISSION OF NWS - 1986 - slides

1203 THE NATIONAL WEATHER SERVICE (1988) - 1 Set (10 slides)

The slide set covers the organization of DOC, NOAA, and NWS. It also includes NOAA Corps, the NOAA Budget, percentage of full-time employees by job classification, and NOAA facility locations. Copy sent to each Western Region WSFO.

1204 MAR - 1990 - 3 Sets (60 slides)

Slide/text presentation on the modernization and associated restructuring of the NWS. (For Western Region use with a general audience.)

1205 HYDROLOGY - MAR - 1990 - (1 Set) with narrative

SERIES 1300 - PRECIPITATION

SERIES 1400 - SATELLITE

1405 MAY 1984 SATELLITE WORKSHOP - (1 set)

1407 GEMINI - slides and narrative (Nagler) (1 set)

1409 WATER VAPOR IMAGERY (WELDON) - slides and narrative

Slides on what water vapor imagery is and how to interpret water vapor satellite pictures. May 1982 water vapor imagery. Illustrates several characteristics of water vapor imagery by comparison to IR imagery and conversational analyses. Also shows weighting functions and brightness temperatures for various soundings.

1410 1980 SATELLITE WORKSHOP - (1 carousel)

1411 1985 ROGER WELDON SYNOPTIC ANALYSIS - slides (2 sets)

1412 POLAR ORBITER SATELLITE IMAGERY INTERPRETATION - 1990 - slides (2 sets)
- Script-Slide Program

1413 WINDS OF THE WORLD - (9 sets) slides

Learning module shows how surface winds may be revealed by weather satellite imagery.

1414 GOES-8 ASSESSMENTS SIDE SET - 1 Set

This 25 slide set and accompanying text was produced by Jim Purdom, Cooperative Institute of Research in the Atmospheric (CIARA) at Colorado State University. The slides feature some of the first images received by GOES-8 and illustrates the advantage of this new technology. There are also similar side-by-side comparisons. There are also similar side-by-side comparisons between GOES 8 and GOES 7. Appropriate for an audience with a strong background in meteorology.

1415 DOPPLER RADAR AT WORK - 2 Sets - 1989

This slide set includes shots of Hurricane Hugo, a severe tornado storm, and doppler radar images. It also shows an AWIPS work-station, a doppler tower, and an automated surface observing system (ASOS).

SERIES 1500 - STORMS

1501 WINTER STORMS - THE DECEPTIVE KILLER - slides, narrative, and course (3 sets)

1502 WHEN LIGHTNING STRIKES - slides and narrative (1 set)

1504 SEVERE WEATHER ON SATELLITE IMAGERY - 9 slides and narrative (2 sets)

1505 LIGHTNING (1988) - 1 Set

This set of over 50 slides shows many spectacular photographs of lightning. A few slides in the beginning of the set illustrate how lightning forms and includes some statistics. No text.

1506 ADVANCED SPOTTER TRAINING (1988) - 1 Set

This slide set was developed to familiarize meteorologists and severe storm spotters with the characteristics of convective storm structure. There are 170 slides in this set, including many actual thunderstorm/tornado photographs. This set should be reviewed using the text which discusses each slide. Each Western Region WSFO has a copy of this set on station.

1507 THUNDERSTORMS AND LIGHTNING - THE UNDERRATED KILLERS! (1985) - 5 Sets

The Thunderstorms and Lightning Hazard Awareness Package has been designed to assist in heightening public awareness and understanding the dangers associated with thunderstorms and lightning. The package provides an introduction to thunderstorms and their offspring, discusses thunderstorm development and occurrence, examines lightning and how it develops, and describes safety information and preparedness measures when dealing with thunderstorms or lightning in general.

1508 CONCEPTS OF SEVERE STORM SPOTTING, A Basic/Intermediate Spotter Training Program (1996) - 2 sets

This program serves two main purposes: (1) to update the 1970's introductory training materials and (2) to discuss the fundamental concepts of the advanced program in less-technical terms.

SERIES 1600 - TORNADOES

1601 SEVERE LOCAL STORMS -- SPOTTERS TRAINING JUNE 1972 - slides and narrative (1 set)

1603 TORNADO SAFETY IN RESIDENCES - slides (2 sets)

1604 THEODORE FUJITA "TRACKS OF TORNADOES" - slides (1 set - extras of Western Region states)

1605 TORNADO: A SPOTTERS GUIDE - slides and narrative (5 sets - 2 parts)

1607 TORNADO PREPAREDNESS 1976 - slides and narrative (8 sets)

1608 THE SAFEST PLACES IN SCHOOLS - slides and narrative (2 sets)

1609 TORNADOES...NATURE'S MOST VIOLENT STORMS - slides (1 set) and narrative

SERIES 1700 - WEATHER (GENERAL)

1701 RAINED OUT (WEATHER KNOWLEDGE IS A BASIC SKILL) - slides and narrative

1703 WEATHER SIGNBOARDS - slides and narrative (2 sets)

1705 HOW THE NATIONAL WEATHER SERVICE WORKS - A STORY WITH THE WEATHER WOODLES (1991) - 3 sets

Carolyn E. Gurney, a former Western Region employee, has both written and illustrated the slide set so that elementary school children can learn about weather and the instruments used to gather weather information. The uses of Doppler radar, AFOS, and NOAA Weather Radio are also explained. The color illustrations and script are excellent learning tools for elementary school children.

SERIES 1900 - RADAR

1901 RADAR WEATHER SURVEILLANCE - slides (2 sets)

1903 RADAR FUNDAMENTALS - slides (1 set)

1904 NEXRAD PRE-TRAINING (1988) - Many sets

This training package was developed by Western Region SSD, using PROFS and NSSL slides. Its purpose was to expose operational meteorologists to some of the basic concepts used in interpreting Doppler radar data. This set comes with two pamphlets prepared by Glen Sampson. One reviews basic Doppler concepts; the second discusses each of the 70 slides. Copies of the slides and text were mailed to most Western Region Offices in the spring of 1988.

1906 REAL-TIME FORECASTING USING DOPPLER RADAR (1988) - 1 Set

Two cases from the Denver area (1988) are presented in this set and demonstrate that tornado warnings can be issued with significant lead-time using output from a Doppler radar. The first case (11 slides) depicts the formation of two TVSSs in Denver County, captured well in the Doppler velocity image. The second case examines deep mesoscale rotation in a supercell storm, using three dimensional reflectivity and Doppler velocity images. This cell subsequently spawned a tornado. Based on the Doppler radar data, the Denver WSFO issued a tornado warning with 32 minutes lead-time. Slides should be viewed with accompanying text. Copies sent to each Western Region WSFO.

1907 DOPPLER RADAR OVERVIEW (1990) - 1 Set

This set of 37 slides provides a general technical overview of the WSR-88D program. Included in this set are:

- * slides of each of the main components of the radar and processing system
- * Algorithms
- * Archive capabilities
- * Scanning techniques
- * Comparison between the display of WSR-57 and WSR-88D output

A text is included with the slide.

1908 VISUAL AND WSR-88D IMAGES WITH AN ISOLATED SUPERCELL IN SOUTHERN OKLAHOMA (1984) - 1 Set

This case study was developed to help bridge the gap between visualization of a severe thunderstorm and detection of the storm with the WSR-88d. This case is from April 2, 1994 and the radar data was compiled from Archive IV from the KTLX (Oklahoma City) Radar.

SERIES 2000 - MISCELLANEOUS

2001 HOW TO FIGHT FIRE - 30 slides and narrative - 10 min/color

How to fight fires in your office and home.

2003 MOUNTAIN WAVE - slides

2005 NWS DISASTER PREPAREDNESS - slides

2006 EMERGENCY BROADCAST SYSTEM - slides

2007 MT ST HELENS - slides and narrative (1 set)

2013 TETON DAM - slides and narrative

APPENDIX E - AUDIO CASSETTES AND MISCELLANEOUS

- SERIES 100 - AFOS
- SERIES 200 - AIR POLLUTION
- SERIES 300 - ATMOSPHERE/CIRCULATION
- SERIES 400 - AVIATION
- SERIES 500 - CLOUDS
- SERIES 600 - ENVIRONMENT
- SERIES 700 - FIRE WEATHER
- SERIES 800 - FLOODS/FLASH FLOODS
- SERIES 900 - FORECASTING
- SERIES 1000 - FRONTS/AIR MASSES
- SERIES 1100 - HURRICANES AND TROPICAL SYSTEMS
- SERIES 1200 - MANAGEMENT
- SERIES 1300 - PRECIPITATION
- SERIES 1400 - SATELLITE
- SERIES 1500 - STORMS/LIGHTNING
- SERIES 1600 - TORNADOES
- SERIES 1700 - WEATHER (GENERAL)
- SERIES 1800 - MARINE
- SERIES 1900 - RADAR
- SERIES 2000 - MISCELLANEOUS
- SERIES 2100 - COMPUTERS
- SERIES 2200 - DIVERSITY/EEO

APPENDIX F - AUDIO CASSETTES AND MISCELLANEOUS DIRECTORY

SERIES 300 - ATMOSPHERE/CIRCULATION

301 THE ATMOSPHERE - OVERHEAD TRANSPARENCY MANUAL (1989) - 1 set

This manual of color transparencies has been produced directly from the wall chart of the same name -- THE ATMOSPHERE. Contents include global atmospheric influences, meteorological motion, clouds and precipitation, severe weather, meteorological optics and pollution meteorology. This is an excellent teaching aid for school and community groups.

SERIES 1200 - MANAGEMENT

1201 STRESS MANAGEMENT FOR PROFESSIONALS (1990) - 1 set

The six-audio cassettes cover the following: (1) stress-free vs. stress-smart and stress management skills, (2) support mechanisms and what are your "leg lifters", (3) signs of burn out and stress "balances", (4) the marble theory and difficult people, (5) "Neutralizing" and the "salami" theory and questions/answers with Roger Mellott, and (6) six ways to relieve stress and the Hawaii story.

1202 THE ONE MINUTE MANAGER (1990) - 1 set

The six-audio cassettes take you beyond The One Minute Manager to give you new and powerful insights into managing and motivating people. Dr. Kenneth Blanchard discusses the following: (1) introduction and overview and the new role of the manager (2) why you should "look inside" first and breaking old habits and learning new ones, (3) One minute goal-setting and one minute praising, (4) the one minute reprimand and the one minute apology, (5) keys to situational leadership and how to be a "Fortunate 500 Company", (6) dealing with change and questions and answers with Ken.

1203 SELF-ESTEEM AND PEAK PERFORMANCE (1990) - 1 set

These six-audio cassettes deal self-esteem and techniques for strengthening relationships, setting goals, and recharging your energy and enthusiasm for your career. How you feel about yourself affects every aspect of your life. When your self-esteem is high, you reach peak performance. Jack Canfield, narrator, covers all the "how to" in this six-hour program.

1204 HOW TO DELEGATE WORK (1990) - 1 set

These four-audio cassettes deal with a step-by-step delegation plan. The audio cassette covers the following: Increasing your delegation awareness, breaking barriers to delegation, making delegation a conscious process, the delegation's dozen, delegating the power to get the job done, the human side of delegation, ensuring that it gets done right, and making it happen.

1205 ACHIEVING EXCELLENCE (1990) - 1 set

These four-audio cassettes cover creating quality, productivity through people, how to make things happen, and your personal excellence. Instructor Lou Heckler's program is effective because he deals with the real issues managers face on a day-to-day basis.

1206 WINNING MANAGEMENT STRATEGIES FOR THE REAL WORLD (1990) - 1 set

Tom Peters and Robert Townsend collaborated on these six-audio cassettes packed with leading edge management tools. Some of the topic covered are getting the job done, people helping people, innovation, sealing innovation through results, and exceptional service/fewer people.

1207 WORDPOWER - VOCABULARY BUILDER (1990) - 1 set

These six-audio cassettes introduce WordPower, a vocabulary-building system. Using techniques learned from WordPower, the student learns how to determine the meanings of words by analyzing word structure. Many examples demonstrate how to decipher a word's meaning.

1208 LEAD THE FIELD (1992) - 1 set

In the six-audio cassettes of Lead the Field, Earl Nightingale will lead you down new paths and old, familiar traits. You'll rediscover the power of words such a attitude and service and goals and commitment. Mr. Nightingale shares with you the basic information and the great ideas you need to reach whatever goal you choose.

1209 MODERNIZATION AND ASSOCIATED RESTRUCTURING (MAR) -
TRANSPARENCY SET (1990) - 2 sets

This transparency set provides general information on the NWS MAR and should help you tailor presentations to the general public, sophisticated users, and meteorology/hydrology students.

1210 MEMORY POWER (1995) - 1 set

These six-audio cassettes help to improve your memory. Remembering names, recalling numbers and data, and holding important facts in your memory are just a few of the skills that are taught on these tapes.

1211 POWERFUL COMMUNICATION SKILLS FOR WOMEN (2000) - 1 set

This six-audio cassette program will provide you with the tools to build your self esteem and deal more confidently with problems. The way you communicate is probably the single most important factor to your success. Learn how to communicate in difficult situations. Learn how to communicate with power!

1212 LIVING IN EXCELLENCE (2000) - 1 set

These six-audio cassettes present a 30 day personal guide on common-sense solutions that will change your life. This program helps break the habits that are keeping you from reaching your true potential. learn more about Living in Excellence and learn to live more successfully with yourself!

SERIES 2000 - MISCELLANEOUS

2001 CD CALCULUS FOR WINDOWS (1995) - 1 CD ROM

CD-Calculus is a new development - a complete textbook and a wealth of additional learning material, all on one CD-ROM. It's a new electronic environment that lets you design and create your own study system and learn calculus the way that suits you best. With CD-Calculus, the entire text, study guide, and solutions manual are available instantaneously. In addition, you can group and display the information any way you like.

2002 CD PHYSICS FOR WINDOWS (1995) - 1 CD ROM

CD-PHYSICS is a new development - a complete textbook and a wealth of additional interactive exercises and learning material, all on one ED-ROM. Its bold new multimedia study environments lets you design and create your own custom study system and learn physics the way that suits you best. The electronic environment allows you to access and link specific topics, exercises, solutions, animations, and tutorials almost instantaneously.

SERIES 2200 - DIVERSITY/EEO

2201 AVOIDING SEXUAL HARASSMENT (1995) - 1 of 1

Sexual harassment conflicts are among the ugliest and most divisive in the workplace, as well as among the costliest. The objective of this program is to outline current law on sexual harassment, then by means of examples and critical incidents, to help employees recognize works and behaviors that might reasonably be regarded as sexual harassment. Includes 3.5 diskette for guidance through the booklet.