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AWS/TI-82/001



# INDEX OF AIR WEATHER SERVICE TECHNICAL PUBLICATIONS

## Headquarters AWS and Subordinate Units

July 1982

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FOR THE COMMANDER



WALTER S. BURGMANN  
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AWS/TI-82/001	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) INDEX OF AIR WEATHER SERVICE TECHNICAL PUBLICA- TIONS: Headquarters AWS and Subordinate Units	5. TYPE OF REPORT & PERIOD COVERED Technical Index	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s)	8. CONTRACT OR GRANT NUMBER(s)	
9. PERFORMING ORGANIZATION NAME AND ADDRESS US Air Force Environmental Technical Applications Center Scott AFB, Illinois 62225	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS Air Weather Service/DN Scott AFB, Illinois 62225	12. REPORT DATE July 1982	
	13. NUMBER OF PAGES 117	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) Unclassified	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES  Updates and replaces AWS/TI-81/001, Index of Air Weather Service Technical Reports, August 1981. Publications of AWS subordinate units have been added.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  Indexes, Meteorology, Weather Forecasting, Technical Reports, Technical Publications, Technical Notes, Terminal Forecast Reference Notebooks, Forecaster Memos, Technical Indexes, Technical Memos, Climatic Briefs.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  This index lists technical publications of the US Air Force Air Weather Service including its subordinate units. These units include the Air Force Global Weather Central, US Air Force Environmental Technical Applications Center, 1st Weather Wing, 2nd Weather Wing, 3rd Weather Wing, 5th Weather Wing, and 7th Weather Wing.		

## PREFACE

This index is an update and expansion of AWS/TI-81/001, Index of Air Weather Service Technical Reports, August 1981. It includes all technical publications originated by Headquarters Air Weather Service (AWS), Air Force Global Weather Central (AFGWC), US Air Force Environmental Technical Applications Center (USAF-ETAC), 1st Weather Wing (1WW), 2nd Weather Wing (2WW), 3rd Weather Wing (3WW), 5th Weather Wing (5WW), and 7th Weather Wing (7WW) as reported to USAFETAC in accordance with AWS Regulation 80-2.

Air Force, Air Force Reserve, and Air National Guard Weather Units should request documents from the Air Weather Service Technical Library (AWSTL), Scott AFB, Illinois 62225. Please provide all information pertaining to the document including the AD number (when available). Other Department of Defense (DOD) agencies and their contractors should request documents from the Defense Technical Information Center (DTIC), Cameron Station, Alexandria, Virginia 22314. All other requests should be sent to the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161.

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SECTION A: AIR WEATHER SERVICE

AWS Technical Reports

- 55-3 "Determination of Absolute Height and Wind for Aircraft Operations," September 1944, 99p (ATI-62748). (Formerly WD Report No. 708, Redesignated AAFWS TR 56-1.)
- 55-4 "Use of Radio Altimeter in Determining Wind and Drift While in Flight," December 1943, 12p (ATI-74431). (Formerly WD Report No. 638, Redesignated AAFWS TR 58-1.)
- 105-1 "The Structure of the Local Winds in the Los Angeles Basin, California," [by Lt L. P. Leopold and Lt G. Beer] September 1945, 30p (ATI-72493).
- 105-2 "Wind Variability," by Maj Hugh W. Ellsaesser, 10 March 1960, 91p (AD-242199).
- 105-3 "On Vertical Motion in the Atmosphere," November 1945, 86p (ATI-65132).
- Contents:
- "Determination of the Field of Vertical Motion," by Robert G. Fleagle, et al., pp. 1-39.
- "A Descriptive Study of the Field of Vertical Motion in a Colorado Low," by Robert G. Fleagle, pp. 40-65.
- "Computation of Vertical Motion from Constant Pressure Charts," by James E. Miller, pp. 66-86.
- 105-4 "A Study of Waves in the Easterlies," by Capt C. O. Durham, Lt E. A. Bryant, Lt J. W. Daane, D. N. Mills, and W. E. Wright, July 1945, 92p (ATI-82074). Revised/edited by Herbert Riehl, 1946.
- 105-5 "Tables Equivalent Potential Temperature for the Standard Constant Pressure Surfaces," [by Capt R. C. Bundgaard] May 1946 (ATI-65136).
- 105-6 "Critique of Verification of Weather Forecasts," January 1944, 84p (ATI-70922). (Formerly WD Report No. 669.)
- 105-7 "Final Report on the Use of Symmetry Points in the Pressure Curves for Long-Range Forecasting," by B. Haurwitz, March 1944, 7p (ATI-112490). (Formerly WD Report No. 709.)
- 105-8 "Preliminary Report on Cloud Conditions Over the North Atlantic, January - March 1944," by 2Lt A. W. Badanes, September 1944, 23p (ATI-65138). (Formerly WD Report No. 791.)
- 105-10 "Preliminary Report on Meteorological Programs at San Jose Island Panama," September 1944, 23p (ATI-72476). (Formerly WD Report No. 809.)
- 105-11 "Non-Frontal Cumulus Clouds on the North Atlantic Routes," January 1945, 16p (ATI-72849). (Formerly WD Report No. 884.)
- 105-12A "Preparation of a Classification Graph East Asia-West Pacific Synoptic Region January 1899 through June 1939, Part I," December 1944, 93p (ATI-65141). (Formerly WD Report No. 904.)
- 105-12B "Classification Graph East Asia-West Pacific Synoptic Region January 1899 through June 1939, Part II," December 1944.

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- 105-13 "A Check List for Forecasting Southern California Stratus," 1944, 35p (ATI-72495). (Formerly WD Report No. 928.)
- 105-14A "Preparation of a Classification Graph East Pacific Synoptic Region January 1899 through June 1939, Part I," [by W. H. Rempel and Newton C. Stone] February 1945. Revised May 1945, 89p (ATI-65147). (Formerly WD Report No. 943.)
- 104-14B "Classification Graph East Pacific Synoptic Region January 1899 through June 1939, Part II," May 1945.
- 105-15 "Analysis and Forecasting of Tropical Cyclones of 1944 in the Caribbean Sea and Western Atlantic Ocean, with the Aid of Aircraft Reconnaissance Reports and Rawins," [by Maj I. I. Porush] May 1945, 30p (ATI-114522). (Formerly WD Report No. 962.)
- 105-16 "Direct Observational Methods for the Determination of Swell Characteristics from Aircraft," June 1945, 8p (ATI-70921). (Formerly WD Report No. 965.)
- 105-17 "Forecasting Tops of Non-Frontal Cumulus Clouds in Polar-Air Outbreaks Over the North Atlantic," September 1945, 44p (ATI-72846). (Formerly WD Report No. 971.)
- 105-18 "Computation of Approximate Ballistic and Differential Ballistic Winds Over Japan by Use of the Wind at Bombing Altitude," May 1945, 4p (ATI-65129). (Formerly WD Report No. 882.)
- 105-19 "Catalogue of Predictors Used in Local Objective Forecast Studies," by Capt Charles S. Cushman, 15 July 1960, 85p (AD-242217).
- 105-20 "The Relation Between Average Monthly Cloudiness and the Average Number of Clear and Cloudy Days," October 1942, 7p (ATI-65125). (Formerly WD Report No. 227.)
- 105-25 "Studies of Length of Record Needed to Obtain Satisfactory Climatic Summaries for Various Meteorological Elements," 19 August 1943, 12p (ATI-65128). (Formerly WD Report No. 588.)
- 105-28 "Clouds of the Aleutian Islands," November 1943, 29p (ATI-72475). (Formerly WD Report No. 605.)
- 105-29 "Interpretation of Weather Over the Pacific," [by Capt R. A. Dyke, et al.] June 1944 (ATI-72458). (Formerly WD Report No. 640.)
- 105-32 "Forecasting and Related Problems in China," December 1944, 25p (ATI-91843). (Formerly WD Report No. 863.)
- 105-33 "Synoptic Weather Associated with Rhine Floods," December 1944, 65p (ATI-65140). (Formerly WD Report No. 864.)
- 105-34A-B "Weather and Climate of China - Parts A and B (Synoptic)," March 1945, 573p (ATI-72446). (Formerly WD Report No. 890A-B.)
- 105-34C "Weather and Climate of China - Part C (Climatic)," March 1945, 69p (ATI-72446). (Formerly WD Report No. 890C.)
- 105-35 "Regions in Germany of Orographic Lifting and Foehn with Northwest-erly Gradient-Wind Flow and Regions of Orographic Lifting and Foehn with Southwesterly Gradient-Wind Flow," [by H. Flohn] June 1945, 2p (ATI-72894). (Formerly WD Report No. 894.)
- 105-36A-B "A Preliminary Report on the Synoptic Aspects of the Climate of Japan," August 1945, Part I, 100p, Part II, 145p (ATI-70924). (Formerly WD Report No. 639.)

AWS Technical Reports

- 105-37 "Report on the Off-Season Operations of the Air Force Hurricane Office 1947-1948," [by Capt H. Ellsaesser] July 1948, 43p (ATI-59691) (PB-120356).
- 105-38 "Short Range and Extended Forecasting by Statistical Methods," [by G. P. Wadsworth, J. G. Bryan, and C. H. Gordon] February 1948, 202p (ATI-65126) (PB-123220). (Printed as 105-37 in error.)
- 105-39 "Further Studies on Thunderstorm Conditions Affecting Flight Operations: Turbulence," [by Capt Fred Pope] March 1949, 31p (ATI-56149) (PB-123221).
- 105-40 "Report on the 1948-49 Post-Analysis Program of the AF Hurricane Office," [by Capt H. Ellsaesser] June 1949, 36p (ATI-67051).
- 105-41 "Report on Project Albedo, Phase I," [by Capt Walter E. Warner] June 1949, 16p (ATI-94442).
- 105-42 "Report on Post-Analysis of Typhoons in the Western North Pacific 1947," July 1949, 32p (ATI-63797) (PB-123222).
- 105-43 "Report on the Typhoon Post-Analysis Program (1948-1949) of the North Pacific Typhoon Warning Service," August 1951, 60p (ATI-134899).
- 105-44 "Preliminary Correlations of the Synoptic and Winds Aloft Charts with High Winds on the Natal-Ascension Track," by TSgt A. W. Orr and Sgt S. Tomashefsky, 1945, 63p (ATI-65137).
- 105-45 "Forecasting Summer Fog at Shemya," [by Capt Dale F. Leipper] 1 June 1945, 54p (ATI-65145).
- 105-46 "Aircraft Icing Over Northwest Europe," by 1st Lt H. Ashley, 2 June 1946, 15p (ATI-65127).
- 105-47 "Notes on Mountain Meteorology," February 1946 (ATI-65142).
- Contents:
- "Briefing Aids Northwest Ferry Route," 33p.
  - "Lee of the Mountain Trough," 39p.
  - "Upper Air Techniques," 27p.
  - "Forecasting in the Northwest Area," by Capt L. F. Haker, 33p.
  - "Forecasting in the Watson Lake Area," by Capt F. F. Hooper, 28p.
- 105-48 "Study of Blowing Dust in the 19th Weather Region (North Africa-Middle East)," by Lt A. L. Sarvis, February 1945, 105p (ATI-65154).
- 105-49 "A Study of Harmattan Haze at Maiduguri, Nigeria," by Capt Thomas P. Condron, December 1944, 13p (ATI-65153).
- 105-50 "The Meteorology of Central Africa," by Maj S. B. Solot, November 1943, 130p (includes revisions by author, November 1945) (ATI-65151).
- 105-51 "An Application of Kinematic Analysis to Tropical Weather," by Earl C. Kindle, May 1945, 46p (ATI-65134).

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- 105-52 "Pilot Interviews: Composite Pirep of 7500 Trips Through the Equatorial Front," [by Capt Leo Alpert] November 1944, 104p (ATI-65123).
- 105-53A "Forecasting Manual Tripoli to Karachi - Part One: October-November-December," [by Capt T. P. Condron, et al] October 1944, 94p (ATI-65143).
- 105-53B "Forecasting Manual Tripoli to Karachi - Part Two: January-February-March," January 1945, 71p (ATI-65143).
- 105-53C "Forecasting Manual Tripoli to Karachi - Part Three: April-May-June," April 1945, 68p (ATI-65143).
- 105-53D "Forecasting Manual Casablanca to Karachi - Part Four: July-August-September," July 1945, 122p (ATI-65143).
- 105-54 "Analysis and Forecasting of Tropical Cyclones with Special Reference to the Atlantic Ocean," by Gordon E. Dunn, USWB, January 1944, reprinted by AAF Weather Wing, May 1944, 35p (ATI-65139).
- 105-55 "Probability of Cloud Obstructing Vision During Bombing Run," by Maj N. Allen Riley, 10 November 1944, 11p (ATI-65152).
- 105-56 "Rain-Cloud Weather Reports Associated with the Frontal Passage of 17-20 December 1943 in Panama," November 1944, 51p (ATI-65155). (Ditto - DTIC cannot reproduce.)
- 105-57 "Radar Storm Detection - Panama 1944," 1945, 122p (ATI-65133).
- 105-58 "Pressure Tendency as an Aid in Single-Station Forecasting for Tropical Areas," [by Lt George L. Landgren and Maj G. M. Leies] March 1945, 14p (ATI-65149).
- 105-59A "The Utilization of 500 Millibar Charts in Forecasting for the China Area-Spring Season," by Capt Robert B. Orton, June 1945, 6p (ATI-65144).
- 105-59B "The Paths and Characteristics of Migratory Anticyclones in Southeast Asia," by Capt Robert B. Orton, July 1945, 15p (ATI-83514).
- 105-60 "A Wave-Front Method of Minimal Flight Planning," by D. T. Perkins, October 1949, 7p (ATI-78584).
- 105-61 "An Analysis of the Sea Breeze in the Boston Area," [by Maj William E. Klein, et al.] June 1945, 78p (ATI-73177).
- 105-62 "The Computation of Air Trajectories," [by Maj A. F. Gustafson] June 1950, 30p (ATI-84239).
- 105-65 "List of Stations Reporting Pressures Reduced to Datum other than Mean Sea Level, Synoptic Code," [by C. J. Callahan] 1 June 1958, 101p (AD-203353). (This report supersedes all previous issues and changes thereto.)
- Change AWS TR 105-65A, 8 August 1960.
- 105-66 "Thickness Evaluation Charts and Tables," December 1950. 12p (ATI-93532). (See TR 230, formerly AWSM 105-50/2) (PB-107769).
- Amendment #1, April 1951.
- 105-67 "The Frontology of North China," [by Capt Robert B. Orton] September 1945, 91p (ATI-83513).
- 105-68 "Dew Point Charts," January 1951, 5p (ATI-111292).

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- 105-69 "Theory and Design of a Gradient Wind Scale," November 1950, 15p (ATI-92528).  
Change AWS TR 105-69A, 27 April 1951. (Reference copy is not available.)
- 105-70 "Comparison of Analogue Selection Methods," [by Lt Col Rodney A. Jones] April 1961, 37p (ATI-104137).
- 105-71 "Report of Elmendorf (Alaska) Weather," January 1946, 38p (ATI-93006).
- 105-72 "Dew-Point - Relative Humidity Conversion Chart," April 1951, 5p (ATI-119241).
- 105-73 "Forecasting Fog in the Brahmaputra Valley," [by Lt D. E. Martin and Sgt P. W. Bauer] March 1951, 17p (ATI-98238).
- 105-75 "An Example of Easterly Wave Analysis in the Western Pacific July 8-10, 1945," [by Dr. Reid A. Bryson] March 1951, 11p (ATI-98239).
- 105-77 "Hurricanes of 1950: Narrative History of Each Storm and Comments on Hurricane Reconnaissance," July 1951, 90p (ATI-110565).
- 105-78 "Forecasting Typhoons of 1949 with Special Reference to the Use of Streamline Analysis," August 1951, 50p (ATI-114511).
- 105-79 "Non-Frontal and Other Types of Thunderstorms in the Lee of the Rocky Mountains," [by Capt John B. Young] December 1945, 16p (ATI-114514).
- 105-82 "An Area Forecasting Study for the Southeastern United States," [by J. J. George, et al.] November 1951, 53p (ATI-122474).
- 105-83 "Notes on Forecasting for Re-supply Operations to Canadian Arctic Stations 1951," November 1951, 16p (ATI-122473).
- 105-84 "Wind Estimation from State of Sea Observations," February 1952, 12p (ATI-167313).
- 105-86 "Tropopause Analysis and Forecasting." [by Dr. George P. Cressman] March 1952, 31p (ATI-162082) (PB-139921).
- 105-87 "A Preliminary Evaluation of the Meteorological Worth of Sferics Data," March 1952, 18p (ATI-173319) (See AWS TR 105-102).
- 105-88 "Report on Task Force Weather Central Activities During Operation Greenhouse," March 1952, 24p (ATI-143061).
- 105-89 "Report on the Post Analysis of Typhoons in the Western North Pacific, 1950," April 1952, 27p (ATI-143040).
- 105-91 "The Occurrence of Strong Winds at Thule," [by A. D. Belmont] May 1952, 7p (ATI-147201).
- 105-92 "Forecasting Winter Ceilings at Barksdale Air Force Base," [by Lt Col R. C. Bundgaard, et al.] July 1952, 26p (ATI-157976).
- 105-93 "A Description of Some Methods of Extended-Period Forecasting," March 1954, 90p (AD-29380). (Also reprinted by US Weather Bureau, incl corrections in Change A.) (PB-114331).  
Change AWS TR 105-93A, October 1954.
- 105-94 "Some Important Weather Factors in B-47 Flight Operations," October 1954, 18p (AD-59988).  
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- 105-95 "Forecasting Study for Turner Air Force Base," [by L. D. Roche, et al.] April 1953, 55p (AD-14211).
- 105-96 "Analysis and Wind Flow at the 50- and 25-mb Levels," [by Dr. A. Kochanski] May 1953, 76p (AD-17729).
- 105-98 (Rev) "Use of Geostrophic Distance in Analysis and Forecasting," [by Maj G. DeGiacomo] September 1954, 13p (AD-74309) (PB-115817).
- 105-99 "Tables for Computing Constant Absolute Vorticity Trajectories," [by H. Wobus, et al.] December 1952, 12p (AD-3774).
- 105-100/1 "Anomalies in the Northern Hemisphere 700-mb 5-Day-Mean Circulation Patterns," [by Maj Donald E. Martin] April 1956, 26p (AD-95566) (PB-123040).
- 105-100/2 "Atlas of 700-mb Five-Day-Mean Northern Hemisphere Anomaly Charts," July 1955 (to accompany AWS TR 105-100/1) (AD-95567) (PB-122242).
- 105-101 (Rev 2) "Memorandum on Density-Altitude," September 1957 (AD-145387) (PB-143289).
- 105-102 "The AWS Spherics Evaluation Project (1951)," [by Capt C. E. Jensen] August 1954, 152p (AD-43882) (PB-115496).
- 105-105 "Memorandum on Construction of a Device for Measuring Contour Curvature," March 1953, 5p (AD-5201).
- 105-107 "Mean Monthly Maps of 300-, 200-, 100-, 50-, and 25-mb Surfaces Over North America," [by Dr. Adam Kochanski] April 1953 (AD-13056).
- 105-108 "Temperatures at the 10-mb (101,000-Foot) Level," [by Dr. Adam Kochanski] May 1953, 33p (AD-20871) (PB-113343).
- 105-109 Extract 1 "Forecasting Sudden 700-mb Height Changes in Key Areas," [by Maj A. Ehrlich] April 1953, 4p (AD-30340).
- 105-110 "Memorandum on Estimating the Height of Cirrostratus Clouds," [by H. Appleman] June 1953, 8p (AD-21743).
- 105-110A "Test of Method for Estimating the Height of Cirrostratus Clouds," [by H. Appleman] January 1957, 7p (AD-129546).
- 105-114 "Wind Extrapolation Device (AWS-WPC-10-4)," [by Maj G. DeGiacomo] November 1953, 10p (AD-22231) (PB-129438).
- 105-115 "Mean Cross Sections Along 80°W," [by Dr. Adam Kochanski] February 1955, 39p (AD-72873) (PB-117299). (No. 5 in a Series of Background Reports for AWS Manual 105-50 - now TR 228 through 230.)
- 105-116 "Tables for Computing Horizontal Distance of Pilot Balloons (30 Gram) for Use with the ML-462()/UM-Nozzle," November 1953, 121p. (Reprint of USWB Tables.)
- 105-117 "Tables for Computing Horizontal Distance of Pilot Balloons (100 Gram) for Use with the ML-462()/UM-Nozzle," November 1953, 180p. (Reprint of USWB Tables.)
- 105-120 "An Introduction to Numerical Weather Prediction," [by Lt Col P. D. Thompson] November 1954, 28p (AD-55556) (PB-116627).
- 105-121 "Winds Over 100 Knots in the Northern Hemisphere," [by Maj Frank W. Murray] January 1955, 67p (AD-60095) (PB-117015).

AWS Technical Reports

- 105-124 "1951 Annual Report of Typhoon Post-Analysis Program," August 1954, 77p (AD-38469).
- 105-125 "1952 Annual Report of Typhoon Post-Analysis Program," August 1954, 43p (AD-38468).
- 105-126 "Memorandum on Effect of Engine Power Setting on Contrail Formation and Intensity," [by H. Appleman] August 1954, 6p (AD-74310).
- 105-127 "Weather Information from B-47 Flights," [by Dr. K. R. Johannessen] October 1955, 37p (AD-104611) (PB-119006).
- 105-128 "Mean Contours, Isotachs, and Isotherms Over the Northern Hemisphere at the 300-, 200-, and 100-mb Levels (January, February, July, and August 1949)," [by Dr. Adam Kochanski] November 1954 (AD-100947) (PB-116671). (No. 7 in a Series of Background Reports for AWSM 105-50 - now TRs 228 through 230.)
- 105-129 "Thermal Structure and Vertical Motion in the Lower Stratosphere," [by Dr. Adam Kochanski] December 1954, 36p (AD-79472)(PB-116793). (No. 8 in a Series of Background Reports to AWSM 105-50 - now TRs 228 through 230.)
- 105-130 "A Compendium on Cirrus and Cirrus Forecasting," by Robert G. Stone, March 1957, 156p (AD-141546) (PB-132399).
- 105-131 "Fjørtoft's Graphical Method for Preparing 24-Hour 500-mb Prognostic Charts," [by Dr K. R. Johannessen] April 1955, 11p (AD-79448) (PB-118042).
- 105-132 "Preliminary Results of Project Cloud Trail," [by Dr. Robert D. Fletcher] February 1956, 23p (AD-101313) (PB-122152).
- 105-133 "Accuracies of Radiosonde Data," [by V. S. Hardin] September 1955, 12p (AD-75863) (PB-119159).
- 105-134 "Evaluation of M. Grappe's Extended Period Forecasting Technique," [by Maj R. C. Bundgaard] May 1955, 20p (AD-69809).
- 105-135 "Charts of Maximum and Minimum Thickness Lines 1000-500 mb Northern Hemisphere 1949-50," [after Dr R. C. Sutcliffe] 1952 (AD-156453).
- 105-136 "Some Objective Methods for Forecasting 300-mb and 200-mb Winds," by Adam B. Kochanski, November 1957, 14p (AD-147760).
- 105-137 "Atlantic-European Weather Types, 1899-1945: Classification, Calendar, Uses and Climatology," [by Lt Col Olaf Njus] August 1955, 40p (AD-72807) (PB-118813).
- 105-138/1 "Evaluation of the Eastern Air Lines Prognostic-Chart Method, Part I: Cyclogenesis," [by Thomas H. Simmonds] August 1955, 28p (AD-72808) (PB-118814).
- 105-138/2 "Evaluation of the Eastern Air Lines Prognostic-Chart Method, Part II: Movement of Cyclones, Anticyclones and Fronts," [by Thomas H. Simmonds] October 1955, 8p (AD-104612) (PB-119015).
- 105-139 "The Black Sheep System of Forecasting Winds for Long-Range Jet Aircraft," [by Lt Col R. C. Bundgaard, et al.] March 1956, 48p (AD-95565).
- 105-140/1 "Errors in Upper-Level Wind Forecasts," by Maj Hugh W. Ellsaesser, December 1956, 17p (AD-146322).
- Change AWS TR 105-140/1A, November 1957.

## AWS Technical Reports

- 105-140/2 "An Investigation of the Errors in Upper-Level Wind Forecasts," by Maj Hugh W. Ellsaesser, November 1957, 58p (AD-145386). (Printed December 1959.)
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- "Application of PE-Model Forecast Parameters to Local-Area Forecasting," by Leonard W. Snellman, pp. 151-168.
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- "An Automated Program to Produce and Update Computer Flight Plans," by Capt Robert J. LaSure, pp. 202-213.
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- 69-2 "Fine Mesh Upper Air Analysis Model," by Capt Rex J. Fleming, 15 December 1969, 19p (AD-710203).
- 69-3 "Deviation Analysis," by Maj Thomas J. Kanesnige and Capt Philip W. West, 15 December 1969, 26p (AD-717651).
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<u>Classifi- cation No.</u>	<u>Title</u>	<u>Source</u>	<u>Author</u>	<u>Type of Calculator</u>
CP-0001	Heating Degree Days	1WW	Kephart	TI-59
CP-0002	ARTYMET Dew Points	1WW	TSgt Sanders	TI-58/59
CP-0003	Altitude & Azimuth	5WW	Charles R. Elliot	TI-59
CP-0004	Moonrise-Moonset	5WW	Charles R. Elliot	TI-59
CP-0005	Sunrise/Sunset/Twilight	5WW	Charles R. Elliot	TI-59
CP-0006	Tide Conversions	5WW	Col Juri V. Nou	TI-59
CP-0007	Temperature Dew-Point Operations	ATC	Marc C. Levine	TI-59
CP-0008	Severe Weather Indices	ATC	Marc C. Levine	TI-59
CP-0009	Solar Bore Sighting	ATC	Marc C. Levine	TI-59
CP-0010	Thickness Computations	ATC	Marc C. Levine	TI-59
CP-0011	Precipitable Water	ATC	Marc C. Levine	TI-59
CP-0012	Tidal Departure	ATC	Marc C. Levine	TI-59
CP-0013	Wind Chill	ATC	Marc C. Levine	TI-59
CP-0014	Radar Echo Movement	ATC	Marc C. Levine	TI-59
CP-0015	Reducing PIBAL Wind Data	7WW	R. A. Chamberlin	TI-59
CP-0016	Determining Curvilinear Distance Out (CDO)	AFSC/WE	Maj Elrick	TI-58/59
CP-0017	TVHYPSO (Hypsometric Eqn using Virtual Temp)	USAFETAC/ENA	--	HP-97
CP-0018	I, J, LAT-LON Conver- sions	USAFETAC/ENA	Capt Chary	HP-97/41C
CP-0019	Thunderstorm Rain	USAFETAC/ENA	--	HP-97
CP-0020	Pressure-Density-Height Relations	USAFETAC/ENA	Capt Chary	HP-97
CP-0021	Relative Humidity and U.A. Five-Digit Group	USAFETAC/ENA	Capt Chary	HP-97
CP-0022	AUTORA0B Refractive Index	USAFETAC/ENA	Capt Chary	HP-97
CP-0023	Refractive Index (N&M,B)	USAFETAC/ENA	Capt Chary	HP-97
CP-0024	ALSTG - STN Pressure	USAFETAC/ENA	--	HP-97
CP-0025	Clock-Hour Rainfall Rates	USAFETAC/ENA	--	HP-97
CP-0026	Layer Winds	USAFETAC/ENA	--	HP-97

Hand Calculator Programs in AWSTL (USAFETAC)

<u>Classifi- cation No.</u>	<u>Title</u>	<u>Source</u>	<u>Author</u>	<u>Type of Calculator</u>
CP-0027	Density Altitude	USAFETAC/ENA	Capt Chary	HP-97
CP-0028	D Summary Conversion Program	USAFETAC/ENA	Capt Goetz	TI-SR-52
CP-0029	RMSE - Chi Square	--	Capt Ingle	TI-SR-52
CP-0030	LAT/LON Conversion to 3DNEPH I, J	--	Capt Ingle	TI-SR-52
CP-0031	SAC OB Mean ALTMR	--	Capt Goetz	TI-SR-52
CP-0032	Conversion of Probability to Equivalent Mean Deviate	--	Capt G. O'Connor	TI-SR-52
CP-0033	Clock-Hour Rains - Gulf of Mexico	USAFETAC/ENA	--	HP-97
CP-0034	Solar Altitude	--	--	TI- 58/59
CP-0035	Absolute Humidity and Virtual Temp Program	AFSC/WE	--	TI-59
CP-0036	Percent Illumination from Day of Phase	USAFETAC/DND	--	TI-59
CP-0037	Azimuth/Elevation	USAFETAC/DND	Maj Lilius	TI-59
CP-0038	Heidke Skill Score	7WW/DNC	Coleman/Sturm	TI-59
CP-0039	Solar Elevation Angle	7WW/DNC	Lt Coleman	TI-59
CP-0040	N Summary Input for WAM (COLOSSUS, MAC M-14 Simulation Program)	USAFETAC/DN	Maj Boehm	TI-59
CP-0041	Toxic Hazard Corridor "(NOTE: Program calculations of hazardous corridors are limited to 5 missile propellants and may be site specific to Vandenberg AFB area.)"	Det 30, 2WS	Capt Roller	TI-59
CP-0042	Station Press Computation	Det 2, 11WS	SSgt Bachman	TI-59
CP-0043	Conversion Radar Fix to LAT/LON	Det 1, 1WW	Maj Bliss	TI-59
CP-0044	Richardson Number Calculations	OL-B, 2WS	Maj Elrick	TI-58/59

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Alameda FWC, California, March 1973, AD-A060998.  
Alamogordo, see: Holloman.  
Alamosa MAP, Colorado, 15 November 1973.  
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Alexandria/England AFB, see: England AFB/Alexandria.  
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Anchorage Int Apt., Alaska, 17 November 1976, AD-A076085.  
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An Hoa MCAAF, Vietnam, 9 March 1971.  
Aniak Apt., Alaska, 12 August 1971.  
An Khe AAF, Vietnam, 3 March 1971.  
Annette Island Apt., Alaska, 13 September 1971.  
Ansbach AAF/Katterbach, West Germany, 29 October 1974, AD-A083309.  
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Cigli AB, see: Izmir.  
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Clinton Sherman AFB, Oklahoma, 28 January 1968.  
Cocoa Beach, see: Patrick AFB.  
Cold Bay Apt., Alaska, 16 July 1970.  
Cold Lake, Canada, 21 July 1981, AD-A110043.  
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Columbia, see: McEntire ANG.  
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Cu Hanh Apt., see: Pleiku.  
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Del Rio, see: Laughlin AFB.  
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Di An AAF, Vietnam, March 1970.  
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Dover AFB, Delaware, 16 October 1981, AD-A110239.  
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Eleuthera Island AAFB, Bahamas, July 1970.  
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Forbes Fld, Kansas, 23 December 1981.  
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Frankfort, see: Rhein-Main Apt.  
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Grand Turk Island, Bahamas, September 1970.  
Gray AAF, see: Fort Hood/Fort Hood AAF.  
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Greater Buffalo, see: Buffalo NY.  
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Gunnery Range, see: Indian Springs.

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Hector Apt., North Dakota, 11 January 1982, AD-A113156.  
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Hoang SA Pattle Island, December 1967.  
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Holbeach Gunnery Range, United Kingdom, 26 July 1972.  
Holloman AFB, New Mexico, 12 April 1982, AD-A069230.  
Homestead AFB, Florida, 17 June 1981, AD-A102404.  
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Houghton County Apt., Michigan, 23 September 1972.  
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Hunter AAF, see: Savannah.  
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Incirlik, see: Adana.  
Indian Mountain AFS, Alaska, 25 June 1971.  
Indian Springs/Gunnery Range, Nevada, 5 April 1972.  
International Falls IAP, Minnesota, 5 April 1972.  
Inuvik NWT DOT, Canada, 17 January 1972, AD-A100247.  
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Izmir/Cigli AB, Turkey, 6 January 1968, AD-A099102.

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Jolon Sig Corps, California, 23 October 1967, AD-A076089.  
Juneau Apt., Alaska, September 1979.

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Kaena Point, Hawaii, 15 June 1976.  
Kahului Maui FAA/WBAS, Hawaii, 3 January 1968.  
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Kangnung/ROK AFS K-18, Korea, 26 February 1968, AD-A088947.  
Kansas City Int'l., Missouri, 12 September 1981, AD-A113179.  
Katterbach, see: Ansbach AAF.  
Keesler AFB, Mississippi, 9 July 1978, AD-A070151.  
Kelly AFB/San Antonio, Texas, 6 March 1981, AD-A102393.  
Kenai FAA, Alaska, 5 October 1967.  
Kennedy Space Center, Florida, 21 May 1981, AD-A102401.  
Key West NAS, Florida, 15 September 1970, AD-A067681.  
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King Salmon AFS, Alaska, 11 January 1980, AD-A081405.  
Kingsley Field, Oregon, 16 July 1980, AD-A087825.  
Kinross/Kincheloe AFB, Michigan, 12 August 1971.  
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K I Sawyer AFB, Michigan, 26 April 1979, AD-A082405.  
Kitzingen AAF, West Germany, 5 March 1974, AD-A084609.  
Klamath Falls, Oregon, see: Kingsley Fld.  
Knobster, see: Whiteman AFB.  
Kobler Fld/Saipan NAS, Marianas Islands, 19 April 1973, AD-A102406.  
Kontum AI CWT, Vietnam, 29 March 1971.  
Koon-ni Range/Osan, Korea, 24 April 1981, AD-A102398.  
Korat Royal Thai AFB (Nakhon), Thailand, 8 August 1973, AD-A098603.  
Koror Island Apt./Palau Island (Nau), Caroline Islands, December 1972.  
Kotzebue/Ralph Wein Apt., Alaska, 1 July 1971.  
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Kwajalein CM/Buchholz (Atoll), Marshall Islands, December 1972, AD-A102405.  
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Kwangju AB, Korea, 1 July 1981, AD-A110048.  
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K-5, see: Taejon.  
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K-14, see: Seoul.  
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K-39, see: Mosulp-0.  
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K-53, see: Paengnyong DO.

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Ladd AFB, see: Fairbanks.  
Lai Khe AAF, Vietnam, 28 April 1976.  
Lajes AB, Azores, 25 November 1981, AD-A113227.  
La Joya, see: Pacora.  
La Junta Mun Apt., Colorado, 11 June 1971.  
Lakehead, see: Fort Williams.  
Lakenheath RAF UK/Brandon, United Kingdom, 23 June 1978, AD-A078353.  
Langley AFB, Virginia, 1 June 1979, AD-A076083.  
Laoag Luzon, Philippines, December 1963.  
Laredo AFB, Texas, August 1967.  
Larson AFB, see: Moses Lake.  
Las Animas Cnty, see: Trinidad.  
Laughlin AFB/Del Rio, Texas, 5 February 1976, AD-A070147.  
Lawson AAF, see: Fort Benning.  
Legaspi Luzon, Philippines, December 1963.  
Libby AAF, see: Fort Huachuca.  
Lihue Kauai WBAP, Hawaii, 7 December 1967.  
Little Rock AFB, Arkansas, 6 February 1980, AD-A081397.  
Logan Fld, see: Billings.  
Lonely AFS, Alaska, 8 April 1976.  
Long Giao AB, Alaska, 5 November 1970.  
Long Thanh North Afld, Vietnam, 9 April 1971.  
Loring AFB, Maine, 7 July 1981, AD-A110047.  
Los Angeles WBAS, California, June 1965.  
Luang Prabang/L-54, Laos, 22 December 1972.  
Lubbuck, see: Reese AFB TX.  
Luke AFB, Arizona, 18 September 1981, AD-A110242.  
Lungtan, China, 29 January 1969.  
Luzon NAS, see: Cubi Point.  
L Z English/CWT, 25 May 1972.  
L-25, see: Ban Houei/Sai/Bravo.

MacDill AFB, Florida, 5 March 1980, AD-A082418.  
Mactan Isle AB, Philippines, 13 July 1970.  
Madison/Truax Fld, Wisconsin, 4 February 1971.  
Madrid, see: Torrejon AB, Spain.  
Malmstrom AFB, see: Great Falls IAP.  
Malton DOT Apt., see: Toronto, Ontario.  
Manila Intl, Philippines, 20 August 1974.  
March AFB/Riverside, California, 28 November 1979, AD-A079848.  
Marietta, see: Dobbins AFB.  
Marina Island, see: Andersen AFB Guam.  
Marshall AAF, Kansas, 25 February 1980, AD-A082420.  
Martin Marietta Afld/Baltimore, Maryland, 2 August 1979, AD-A096902.  
Mathas Fld, see: San Angelo.  
Mather AFB/Sacramento, California, 19 May 1976, AD-A069236.  
Maui Optical Site/Mt Haleakala, Hawaii, 23 March 1981, AD-A102394.  
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McChord AFB/Tacoma, Washington, 20 July 1980, AD-A087812.  
McClellan AFB Sacramento, California, 1 July 1981, AD-A110240.  
McConnell AFB, Kansas, 14 December 1981, AD-A113155.  
McCoy AFB, see: Orlando.  
McEntire ANG, South Carolina, 25 March 1982, AD-A070152.  
McGrath Apt., Alaska, 19 August 1971.  
McGuire AFB NJ/Wrightstown, New Jersey, 31 May 1978, AD-A074678.  
McIntire ANG, see: Eastover.  
Meadows Fld, see: Bakersfield.

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Meridian NAS, Mississippi, 29 July 1970.  
Miami IAP, Florida, 10 August 1971.  
Michales AAF/Dugway, Utah, 21 March 1974, AD-A076075.  
Middleton Island AFS, Alaska, June 1963.  
Middletown/Olmstead AFB, Pennsylvania, 2 October 1968.  
Midway Island NS, Wake Island, 31 August 1970.  
Mildenhall RAF, United Kingdom, 22 December 1978, AD-A078346.  
Mile 13 Apt., see: Cordova.  
Milwaukee/Mitchell Fld, Wisconsin, 16 November 1971.  
Minerall Wells, Texas, 18 May 1972, AD-A074680.  
Minneapolis/St Paul IAP, Minnesota, 11 February 1967.  
Minot AFB, North Dakota, 3 November 1978, AD-A079849.  
Misawa AB, see: Furumaki Honshu.  
Mitchell Fld, see: Milwaukee.  
Mobile/Brookley AFB, Alabama, 29 January 1969.  
Moen Apt., see: Truk Island.  
Moffett Fld NAS, see: Sunnyvale.  
Mokuleia, see: Oahu.  
Monroe County Apt., see: Rochester NY.  
Montague/Siskiyou Cny Apt., California, 1 October 1966.  
Monterey FAA, California, 24 July 1980, AD-A087826.  
Montgomery, see: Maxwell AFB.  
Moody AFB, Georgia, 21 May 1982, AD-A069237.  
Moose Jaw/Saskatchewan/DOT Apt., 18 October 1971.  
Moron AB, Spain, 12 May 1972, AD-A088941.  
Moses Lake/Larson AFB, June 1964.  
Moses Point Apt., Alaska, June 1964.  
Mosulp-O/Cheju-do ROK K-39, Korea, 27 February 1968, AD-A088941.  
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Mount Clemens, see: Selfridge AFB.  
Mt Haleakala, see: Maui Optical Site.  
Mt Pocono, see: Tobyhanna.  
Munich (WSSC only).  
Muskwa DOT Apt., see: Fort Nelson BC.  
Myrtle Beach AFB, South Carolina, 7 August 1981, AD-A110241.

Naha AB, see: Okinawa Ryukyu.  
Nakhon Phanom RTAFB, Thailand, 12 November 1974, AD-A096903.  
Namao DOT Apt., see: Edmonton Alberta.  
Nandi, Ellis Islands, 26 April 1971.  
Nellis AFB, Nevada, 29 October 1981, AD-A113154.  
Nenana FAA, Alaska, 28 May 1968.  
Neu Cheu Tze, see: Formosa/Tainan.  
Newburgh/Steward AFB, New York, 26 August 1971.  
New Delhi/Willingdon, India, February 1946.  
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New York/John F Kennedy Int Apt, June 1965.  
Nha Trang Apt., Vietnam, 29 January 1971, AD-A098606.  
Niagara Falls MAP, New York, 8 December 1981, AD-A078358.  
Nikolski, Alaska, 10 August 1971.  
Nome Apt., Alaska, 24 May 1971.  
Norman Wells NWT DOT Apt., Canada, 28 January 1972, AD-A100246.  
North Bay Ontario DOT Apt., December 1966.  
Northeast Capt AFS, Alaska, 21 September 1971.  
Northway Apt., Alaska, December 1970.  
Norton AFB, California, 24 September 1981, AD-A110046.  
Nurnberg/Furth, West Germany, 25 October 1972, AD-A087820.

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Oasis CWT, Vietnam, 12 July 1970.  
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Ogden, see: Hill AFB Utah.  
O'Hare Fld, see: Chicago.

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Olikiok, Alaska, 8 April 1976.  
Olmstead, see: Middletown.  
Omaha, see: Offutt AFB.  
Ontario WB 2nd Ord., California, 10 February 1967.  
Orlando/McCoy AFB, Florida, 30 October 1968.  
Osan AB/Osan-Ni, Korea, 26 July 1978, AD-A061831.  
Osan-Ni, see: Osan AB.  
Oscoda, see: Wurtsmith AFB.  
Otis AFB, Massachusetts, 5 February 1982.  
Ottawa IAP/Ontario, Canada, 23 April 1975.  
Oxnard AFB, California, 8 July 1970.

Pacora/La Joya, Panama, September 1945.  
Paengnyong DO/ROK AFS K-53, Korea, 21 February 1968.  
Pago-Pago Samoa/Int Apt., Samoa Islands, 20 August 1970.  
Paine Fld, see: Everett.  
Pakse/L-11, Laos, 21 December 1972.  
Palau Island (Nau), see: Koror Island Apt.  
Palmdale Apt., California, 4 January 1974, AD-A074676.  
Panama City, see: Tyndall AFB.  
Paso Robles County Apt., California, 15 November 1973.  
Patrick AFB/Cocoa Beach, Florida, 14 April 1981, AD-A102396.  
Patuxent River NAS, December 1958, AD-A060969.  
Pease AFB, New Hampshire, 2 July 1979, AD-A082411.  
Perrin AFB, see: Sherman.  
Peru, see: Grissom AFB.  
Peterson Fld/Colorado Springs, Colorado, 30 October 1972, AD-A087813.  
Phan Rang City, Vietnam, 4 March 1971.  
Phan Thiet, Vietnam, 28 August 1967.  
Phelps-Collins/Alpena, Michigan, 19 May 1982.  
Phi Bai AI, see: Hue.  
Phoenix Islands, WSO, see: Canton Island.  
Phoenix, see: Luke AFB.  
Phu Cat AB, see: 17 March 1971.  
Phu Cum/LS-50, 13 July 1970.  
Phu Loi AAF, Vietnam, 15 January 1971.  
Phuoc Vihn AAF, Vietnam, 18 January 1971.  
Phu Quoc, Vietnam, 20 December 1967.  
Pierre MAP, South Dakota, 12 September 1972.  
Pine Bluff, Arkansas, 16 August 1968.  
Pittsburgh, see: Greater Pittsburgh.  
Plaine De Jarres, Laos, 3 March 1969.  
Plattsburgh AFB, New York, 26 October 1978, AD-A078352.  
Pleiku/Cu Hanh Apt., Vietnam, 31 May 1968.  
Point Lay Dew Stn., Alaska, 8 April 1976.  
Pomona Apt, see: Atlantic City.  
Pope AFB/Fayetteville, North Carolina, 21 April 1981, AD-A102397.  
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Port Clarence CGS, Alaska, 8 April 1976.  
Port Heiden Apt., Alaska, 21 October 1971.  
Portland IAP, Oregon, 8 September 1980, AD-A095329.  
Port Mollor AFS, 21 September 1971.  
Prince George BC DOT Apt., Canada, 2 November 1971, AD-A100242.  
Pueblo Mem Apt., 28 October 1971.  
Pulliam Apt., (WBO) see: Flagstaff.  
Pusan East/ROK AFS K-9, Korea, 26 February 1968, AD-A083305.  
Pyongtaek AB KO/Camp Humphries, Korea, 20 October 1978, AD-A088955.

Qaqatoqaq/Dye-1, Greenland, 22 April 1971.  
Quang Loi AI, Vietnam, 18 January 1971.  
Quang Ngai, Vietnam, 19 September 1967.  
Quang Tri, Vietnam, 12 May 1967.  
Quan Long, see: An Xuyen/Camau.  
Qui Nhon AB, Vietnam, December 1968.

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Ralph Wein Apt., see: Kotzebue.  
Ramstein AB, West Germany, 10 October 1978, AD-A079838.  
Randolph AFB, Texas, 8 February 1982, AD-A070148.  
Rantoul, see: Chanute AFB.  
Rapid City, see: Ellsworth AFB, South Dakota.  
Reese AFB, TX/Lubbock, Texas, 16 July 1979, AD-A074684.  
Reno/Stead AFB, Nevada, 19 November 1971.  
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- 79/001 "Fog and Stratus," by Maj Michael G. Olivier (edited by Capt Dale L. Johnson), July 1979, 8p.
- 80/001 "Checklist of Analysis Options for Use with Centrally Prepared Facsimile Products," by Maj Frank J. Carvell and Capt Stephen M. Horn, April 1980, 3p.
- 80/002 "Study Guide or Checklist for Detachment Technical Leaders," by Capt Dale L. Johnson, June 1980, 10p.
- 80/003 "Death of the NWS Forecaster," by Mr Glenn Schwarz (FM preparation by Capt Edwin S. Arrance), August 1980, 4p.
- 80/004 "Limited Fine Mesh (LFM) Forecasting Rules," by Capt Stephen M. Horn (FM preparation by Capt Gary L. Sickler), October 1980, 3p.
- 81/001 "An 'Example' Local Analysis and Forecast Program (LAFP)," by SMSgt Earl W. Rook (FM preparation by Capt Gary L. Sickler), February 1981, 12p.
- 81/002 "Shortcut for Moonrise and Moonset Calculations," by Maj Dale L. Johnson and TSgt Gerald L. Wheeler, February 1981, 5p.
- 81/003 "An Introduction to the Geostationary Operational Environmental Satellite (GOES) System," by Capt Gary L. Sickler, March 1981, 13p.
- 81/004 "Topical Breakout of Teletype Bulletins Useful in Forecast Preparation," by Capt Timothy D. Crum, April 1981, 20p.
- 81/005 "The Damming Effect of the Southern Appalachians," by Barry A. Richwien (FM preparation by Capt Steven A. Taylor), April 1981, 12 p.
- 81/006 "Results of Evaluation of the AFGWC 3-6 Day and 7-10 Day Medium Range Progs - November 1980," June 1981, 31p.
- 82/001 "Fundamental Forecast Concepts for Northeast Africa and the Saudi Arabian Peninsula for the Period of November/December," March 1982, 10p.

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Atlantic City NJ (Det 27, 12 WS) - 1 April 1981, 5WW/TFRN-81/001  
Bergstrom AFB TX (Det 10, 25 WS) - 15 April 1978  
Cannon AFB NM (Det 11, 25 WS) - 15 March 1978  
Cheyenne Mtn Complex CO (Det 1, 12 WS) - 4 February 1977  
Davis-Monthan AFB AZ (Det 13, 25 WS) - September 1979  
England AFB LA (Det 5, 3 WS) - 1 September 1972  
Fresno Air Terminal CA (Det 15, 25 WS) - 20 April 1981, 5WW/TFRN-81/004  
Ft Belvoir VA (Det 2, 5 WS) - January 1975  
Ft Benning GA (Det 10, 5 WS) - 15 December 1977, 5WW/TFRN-80/006  
Ft Bragg NC (Det 3, 5 WS) - November 1979  
Ft Campbell KY (Det 1, 5 WS) - 1 August 1977  
Ft Carson CO (Det 58, 5 WS) - 31 January 1975  
Ft Devens MA (Det 12, 5 WS) - 15 June 1981, 5WW/TFRN-81/007  
Ft Eustis VA (Det 13, 5 WS) - 16 October 1978  
Ft Hood TX (Det 14, 5 WS) - 15 March 1975  
Ft Knox KY (Det 5, 5 WS) - 12 July 1976  
Ft Lewis WA (Det 6, 5 WS) - February 1978  
Ft Meade MD (OL-A, Det 2, 5 WS) - April 1975  
Ft Ord CA (Det 7, 5 WS) - 1 December 1977  
Ft Polk LA (Det 31, 5 WS) - 10 July 1977  
Ft Riley KS (Det 8, 5 WS) - 18 February 1976, 5WW/TFRN-81/008  
Ft Rucker AL (Det 9, 5 WS) - 28 March 1977  
Ft Sill OK (Det 11, 5 WS) - 1 July 1974  
George AFB CA (Det 12, 25 WS) - 4 September 1980, 5WW/TFRN-80/001  
Holloman AFB NM (Det 14, 25 WS) - 17 May 1970  
Homestead AFB FL (Det 6, 3 WS) - 1 January 1975  
Howard AFB PN (Det 25, 5 WW) - 15 May 1978, 5WW/TFRN-80/003  
Hunter AAF GA (Det 21, 5 WS) - 1 August 1979  
Hurlburt Field FL (Det 75, 3 WS) - 15 May 1973  
Jacksonville FL (Det 41, 12 WS) - 1 April 1981, 5WW/TFRN-81/005  
Langley AFB VA (Det 7, 3 WS) - 24 April 1981, 5WW/TFRN-81/002  
Luke AFB AZ (Det 15, 25 WS) - 2 June 1980, 5WW/TFRN-80/002  
MacDill AFB FL (Det 32, 3 WS) - 15 January 1978  
Moody AFB GA (Det 23, 3 WS) - September 1977  
Mountain Home AFB ID (Det 18, 25 WS) - 15 July 1975  
Myrtle Beach AFB SC (Det 3, 3 WS) - 20 November 1975, 5WW/TFRN-80/005  
Nellis AFB NV (Det 16, 25 WS) - 1 November 1974  
Seymour-Johnson AFB NC (Det 2, 3 WS) - 15 February 1979  
Shaw AFB SC (Det 1, 3 WS) - 27 February 1976, 5WW/TFRN-81/009  
Tyndall AFB FL (Det 9, 12 WS) - 1 February 1981, 5WW/TFRN-81/003

SECTION H: SEVENTH WEATHER WING

7WW Technical Notes

- 80/001 "Forecast Worksheet: A New Approach," 1 May 1980.
- 80/002 "Satellite Derived Winds," 1 July 1980.
- 82/001 "Ray-Tracing Analysis of a Line-of-Sight Communications Path," by  
Maj James W. Goldey, May 1982, 28p.

7WW Forecaster Memos

77/002 "Operational Verification - An Example," 1 December 1977.  
77/004 "Wind Shear is Dangerous," 15 December 1977.  
78/001 "Low Level Wind Shear (Reprints from TAC Attack)," 15 February 1978.  
78/003 "Back to Basics," 1 June 1978.  
78/005 "Atmospheric Electricity," 1 July 1978.  
78/006 "Air Force Weather Modification Program," 1 July 1978.  
78/008 "Radar Signatures and Severe Weather," 1 September 1978.  
78/009 "Limitations of FAA Radars in Storm Detection," 1 September 1978.  
78/010 "Forecasting Exercise," 1 September 1978.  
78/011 "Flash Flood Forecasting," 1 September 1978.  
78/012 "USAFETAC Priority System," 1 September 1978.  
78/013 "Lightning Casualties," 1 September 1978.  
78/014 "SPOT Index - An Indicator of Severe Storm Potential," 1 September 1978.  
78/015 "Use of Geostrophic Wind and Vorticity Bulletin (ASUS 10 KMKC) in the Local Analysis Program," 1 September 1978.  
78/018 "Composite Fibers - Code Name 'CORKER'," 1 October 1978.  
78/019 "Precipitable Water - Monthly Means," 1 November 1978.  
78/022 "Variation in Radar Echo Tops," 1 December 1978.  
78/023 "The Southwest Low and 'Henry's Rule'," 1 December 1978.  
78/025 "Rain or Snow?" 1 December 1978.  
78/026 "Climatology of First Snowfall, Freezing Rain, and Blizzards," 1 December 1978.  
79/003 "Freezing Precipitation," 1 February 1979.  
79/005 "Tailored Climatology of Severe Weather (5WWTN 78-2)," 1 April 1979.  
79/006 "Computation of Crosswinds from RUSSWO Data," 1 April 1979.  
79/007 "Low Level Wind Shear," 1 May 1979.  
79/008 "Fallout Winds," 1 May 1979.  
79/009 "Worldwide Climatology of Tropical Storms," 15 July 1979.  
79/011 "Using Satellite Field Service Stations (SFSS)," 15 November 1979.  
80/001 "Acronyms Commonly Used in AWS," 25 April 1980.  
80/002 "Use of Satellite Derived Winds in Centralized Analyses," 30 October 1980.  
81/002 "Weather Warning Support Index," 1 June 1981.

7WW Forecaster Memos

81/003        "Wind Shear," 15 September 1981.  
81/004        "Reliability Studies," 15 September 1981.  
81/005        "Using Satellites to Study the Weather," 15 September 1981.  
82/001        "Sources of Astronomical Data," 31 January 1982.

7WW Technical Indexes

80/005 "Index of Unpublished Non-Standard Parachute Climo Summaries,"  
15 April 1980.

81/003 "Technical Information Available for Mobility Training," 10 March  
1981.

81/005 "Index of Follow-On Training (FOT) Aids," 15 January 1981.

82/001 "Index of 7WW Technical Publications and Publications of Other  
Wings and Agencies Distributed to 7WW Units," 31 March 1982.

82/002 "Retention Guide for AWS Technical Reports," 31 March 1982.

82/003 "Retention Guide for AWS Technical Notes," 31 March 1982.

82/004 "Retention Guide for USAFETAC Technical Notes," 31 March 1982.

82/005 "Index of Films, Briefings, and Other Training Aids Available for  
Loan," 31 March 1982.

SECTION I: TERMINAL FORECAST REFERENCE NOTEBOOKS

\*\*\*\*\*  
 \* NOTE: The Terminal Forecast Reference Notebooks \*  
 \* listed here are filed in the AWS Technical \*  
 \* Library. If the date noted for your TRFN \*  
 \* is not the correct one, please send a copy \*  
 \* of the current publication to USAFETAC/TS, \*  
 \* Scott AFB IL 62225. \*  
 \* \*\*\*\*\*

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD NUMBER</u>
ADAK, N.S., AK	NWSED	MAY 79	
AGANA NAS, GUAM	NWSED	1 NOV 69	
ALAMEDA NAS, CA	FWF	JAN 72	
ALCONBURY RAF, ENG CH 3	DET 36, 31 WS	30 JAN 80	
ATLANTA NAS, GA	NWSED	15 APR 66	
ATSUGI NAS, JAPAN	NWSED	1 APR 68	
ALTUS AFB, OK CH 1	DET 4, 7 WW	15 OCT 78	
ANDERSEN AFB, GUAM CH 5	DET 2, 1 WW	20 FEB 71 7 JUN 79	
BARBERS PT NAS, HI	NWSED	30 APR 76	
BARKSDALE AFB, LA CH 2	26 WS, 3 WW	2 SEP 76	
BEALE AFB, CA CHs 1-4 CH	DET 11, 9 WS	17 MAY 79	
BEAUFORT MCAS, SC	WEATHER SERVICES DIV	9 JAN 80	
BERGSTROM AFB, TX	DET 10, 15 WS, 5 WW	15 APR 78	
BERMUDA NAS	NWSED	1 OCT 72	
BITBURG AB, GER	2 WW	FEB 81	AD-A094908
BRUNSWICK NAS, ME	NWSED	1 MAR 72	
BUCKLEY FIELD, CO CHs 1-2 CH 3	DET 29, 25 WS, 5 WW	19 JAN 79	
CAMP CASEY, KOREA (Also: CAMP STANLEY and CAMP STANTON)		1 AUG 81	
CAMP HUMPHRIES AI, KOREA		30 OCT 80	AD-A099666
CARSWELL AFB, TX CH 1	DET 22, 26 WS	31 JAN 75	

Terminal Forecast Reference Notebooks

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD-NUMBER</u>
CASTLE AFB, CA	DET 29	(no date)	
CECIL FLD NAS, FL	NWSED	15 JAN 76	
CHARLESTON AFB, SC CH 1 CH 3	DET 37	27 JUL 79	
CHARLESTON NAS, SC	NWSED	10 DEC 76	
CHASE FLD NAS BEEVILLE, TX	NWSED	17 APR 70	
CLARK AFB, PI	DET 5, 1 WW	17 JAN 79	
COLUMBUS AFB, MS	DET 2, 24 WS	1 JUN 77	
CORPUS CHRISTI NAS, TX	NWSED	1 SEP 79	
CUBI PT, PI	NWSED	1 JUL 71	
DALLAS NAS, TX	NWSED	15 AUG 78	
DAVIS-MONTHAN AFB, AZ	DET 13, 25 WS, 5 WW	FEB 79	
DETROIT NAF, MI	NWSED	30 JUN 78	
DIEGO GARCIA NAS	NWSED	1 APR 77	
DOBBINS AFB, GA CH 1	3 WS	16 SEP 77	
DOVER AFB, DE CH 2	DET 5, 7 WW	1 MAY 78	
DYESS AFB, TX CH 3	DET 16, 3 WW	20 NOV 74	
EIELSON AFB, AK	DET 2, 11 WS	JAN 74	
ELLINGTON AFB. TX CHs 1-6 CH 7	DET 28, 15 WS	15 AUG 76 6 JAN 76	
ELLSWORTH AFB, SD	DET 17, 9 WS	1 JUN 77	
EL TORO MCAS, SPAIN	WEATHER SERVICES DIV	DEC 78	
FAIRSHILD, WA		JUN 77	
FALLON NAS, NV	NWSED	8 MAR 76	
FORT BELVOIR, VA	DET 2, 5 WS	JAN 75	
FORT BENNING, GA	DET 10, 5 WS	15 DEC 77	
FORT CAMPBELL, KY	DET 1, 5 WS	1 AUG 77	
FORT CARSON, CO	DET 58, 5 WS	31 JAN 75	
FORT EUSTIS, VA CH 2	DET 13, 16 WS	8 APR 78	

Terminal Forecast Reference Notebooks

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD-NUMBER</u>
FORT HOOD, TX CH 6	DET 14, 5 WS	10 NOV 79	
FORT KNOX, KY CH 9	DET 5, 5 WS	10 AUG 79	
FORT LEWIS, WA CH 2	DET 6, 5 WS	15 JUN 79	
FORT ORD, CA CH 2	DET 7, 5 WS	7 AUG 78	
FORT POLK, LA CH 1 CH 2	DET 31, 5 WS	29 OCT 79	
FORT RICHARDSON, AK		MAY 79	
FORT RILEY, KS	DET 8, 5 WS	16 JAN 78	
FORT RUCKER, AL CH 4	DET 9, 5 WS	1 NOV 78	
FORT WAINWRIGHT, AK	OL-A, DET 4, 11 WS	SEP 77	
FUTEMA MCAS, OKINAWA	WEATHER SERVICES DIV	1 JAN 81	
GEORGE AFB, CA	DET 12, 25 WS	4 SEP 80	AD-A098438
GLENVIEW NAS, IL	NWSF	4 JAN 77	
GRAND FORKS AFB, ND	DET 15, 3 WW	10 MAY 79	
GRISSEM AFB, IN CH 1	DET 26, 3 WW 26 WS	12 MAY 76	
GUAM IS. (JOINT TYPHOON WARNING CENTER)	FLEET WEATHER CENTRAL	FEB 78	
GUANTANAMO BAY NAS, CUBA	NWSED	DEC 78	
HELLENIKON AB, GREECE	OL-C, 31 WS	14 MAY 81	AD-A099665
HICKAM AFB, HI	DET 4, 1 WW	1 OCT 77	
HILL AFB, UT CH 1	DET 6, 15 WS	31 OCT 78	
HOMESTEAD AFB, FL	DET 6, 3 WS	1 JAN 75	
HOWARD AFB, CZ	DET 25, 5 WW	14 NOV 79	
HUNTER AAF, GA	DET 21, 5 WS	1 AUG 79	
HURLBURT FLD, FL	DET 75, 3 WS	JUN 72	
IWAKUNI MCAS, JAPAN	WEATHER SERVICES DIV	1 APR 72	
JACKSONVILLE NAS, FL	NOCD	MAR 80	
KADENA NAF, OKINAWA	WEATHER SERVICES DIV	31 MAR 78	

Terminal Forecast Reference Notebook

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD-NUMBER</u>
KEESLER AFB, MS CH 1	DET 22, 24 WS	12 OCT 78	
KEFLAVIK FWF, ICELAND	NOCN	1 NOV 80	
KELLY AFB, TX	DET 7, 15 WS	15 DEC 78	
KEY WEST NAS, FL	NWSED	15 JAN 77	
KINGSVILLE, TX	NOCF	MAR 80	
KIRTLAND AFB, NM	DET 23, 7 WW	14 SEP 78	
LAJES FLD, AZORES	DET 19, 7 WW	APR 78	
LAKEHURST, NJ	NWSED	SEP 79	
LAUGHLIN AFB, TX	DET 20, 24 WS	15 JUN 78	
LEMOORE NAS, CA	NWSED	AUG 81	
LITTLE ROCK AFB, AR	DET 20, 7 WS	7 JUN 79	
LOCKBOURNE AFB, OH	DET 3, 8 WS	NOV 61	
LORING AFB, ME	DET 4, 8 WS	JUN 74	
LOWRY AFB, CO	DET 6, 24 WS	1964	
LUKE AFB, AZ		1 JUN 80	AD-A098445
MacDILL AFB, FL CH 1	DET 32, 3 WS	12 OCT 78	
MALMSTROM AFB, MT CH 3	DET 3, 12 WS	5 SEP 77	
MARCH AFB, CA CH 1	DET 7, 9 WS	22 AUG 78	
MARTIN-MARIETTA AFLD, MD	DET 1, 7 WW	24 JUL 78	
MATHER AFB, CA	DET 7, 24 WS	10 MAY 78	
MAXWELL AFB, AL CH 2	DET 9, 24 WS	1 NOV 79	
MAYPORT NAS, FL	NWSED	15 JAN 78	
McCHORD AFB, WA	DET 11, 7 WW	1 JUL 78	
McCLELLAN AFB, CA	DET 8, 15 WS	15 SEP 78	
McCONNELL AFB, KS	DET 23, 26 WS	1 JAN 75	
McGUIRE AFB, NJ	DET 10, 7 WW	1 JAN 78	
MEMPHIS NAS, TN	NWSED	1 MAY 78	
MERIDIAN NAS, MS	NWSED	17 APR 79	
MIDWAY ISLAND NS	NWSED	1 MAR 75	

Terminal Forecast Reference Notebooks

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD-NUMBER</u>
MINOT AFB, ND CH 15	DET 21, 3 WW	23 DEC 75	
MIRAMAR NAS, CA	NWSED	JAN 77	
MOFFETT FLD NAS, CA	NWSED	1 MAY 74	
MOODY AFB, GA CH 1	DET 23, 3 WS	22 FEB 78	
MOUNTAIN-HOME AFB, ID CH 4	DET 18, 25 WS	9 NOV 79	
MYRTLE BEACH AFB, SC CHs 3-6	DET 3, 3 WS	MAY 81	
NELLIS AFB, NV CH 12	DET 16, 5 WW	27 JUN 79	
NEW ORLEANS, LA	NWSED	1 APR 79	
NEW RIVER MCAS, NC (JACKSONVILLE)	WEATHER SERVICES DIV	APR 80	
NORFOLK NAS, VA	FWC	JAN 72	
NORTH ISLAND NAS SAN DIEGO, CA	NOCF	1 SEP 80	
NORTON AFB, CA	DET 14, 7 WW	JAN 74	
OFFUTT AFB, NE CH 4	DET 1, 3 WW	18 JUL 78	
OSAN AB, KOREA	DET 15, 30 WS	4 MAR 77	
OTIS AFB, MA	DET 12, 12 WS	15 JAN 73	
PATUXENT RIVER NAS, MD	NOCD	19 JAN 81	
PEARL HARBOR, HI	FWC	4 FEB 75	
PEASE AFB, NH	DET 6	NOV 74	
PENSACOLA NAS, FL	NWSED	1 NOV 80	
PETERSON AFB, CO	DET 6, 12 WS	4 FEB 77	
PLATTSBURGH AFB, NY	DET 7, 8 WS	1 AUG 80	AD-A099663
POPE AFB, NC	DET 21, 15 WS	1 MAR 75	
RAMEY AFB, PR	DET 20, 15 WS	SEP 72	
RANDOLPH AFB, TX CH 3	DET 1, 24 WS	2 OCT 78	
REESE AFB, TX CH 1	DET 11, 24 WS	28 SEP 79	
RICHARDS-GEBUR AFB, MO	DET 12, 7 WW	JAN 77	
RICKENBACKER AFB, OH CH 1	DET 18, 26 WS	23 SEP 79	

Terminal Forecast Reference Notebooks

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD-NUMBER</u>
ROBBINS AFB, GA	DET 13, 15 WS	15 JUL 78	
ROOSEVELT ROADS NAS, PR	NWSED	AUG 81	
ROTA NAS, SPAIN	FWC	13 JAN 76	
SAN DIEGO, CA	NWS FACILITY	1 SEP 77	
SANTA ANA MCAS, CA	WEATHER SERVICES DIV	MAY 66	
SCOTT AFB, IL	DET 9, 7 WW	10 JUL 81	AD-A105084
SELFRIIDGE AFB, MI	DET 12, 3 WS	30 APR 81	AD-A105083
SEOUL, KOREA	DET 18	AUG 60	
SEYMOUR-JOHNSON AFB, NC CH 2	DET 2, 3 WS	17 MAY 79	
SHAW AFB, SC CH 4	DET 1, 3 WS	15 JAN 80	
SHEPPARD AFB, TX CH 5	DET 12, 24 WS	7 OCT 78	
SIGONELLA NAF, ITALY	NOCD	7 NOV 80	
SOUTH WEYMOUTH NAS, MA	NOCD	1 NOV 79	
SPANGDAHLEM, GER CH	DET 11, 31 WS	JUN 79 5 NOV 80	
STUTTGART, GER		10 DEC 79	
SUITLAND, MD	FWF	(no date)	
TINKER AFB, OK	DETR 1, 15 WS	OCT 78	
TYNDALL AFB, FL		1 FEB 81	AD-A105085
VANCE AFB, OK CH 1	DET 15, 24 WS	1 AUG 79	
VIRGINIA BEACH, VA (NAS OCEANA)	NWSED	1 MAR 78	
WHEELER AFB, HI CH 7	DET 7, 1 WW	18 DEC 79	
WHIDBEY ISLAND NAS, WA	NWSED	1 JUL 77	
WHITEMAN AFB, MO	DET 19, 8 WS	SEP 68	
WILLIAMS AFB, AZ	DET 17, 24 WS	AUG 81	
WILLOW GROVE, PA	NWSED	JUL 79	
WRIGHT AAF, GA	DET 19, 4 WS	1 JUN 75	
WRIGHT-PATTERSON AFB, OH	DET 15, 15 WS	1 SEP 78	
WURTSMITH AFB, MI CH 2	DET 28, 26 WS	/ MAY 76	

Terminal Reference Note Books

<u>STATION/LOCATION</u>	<u>UNIT</u>	<u>DATE</u>	<u>AD-NUMBER</u>
YOKOSUKA NAS, JAPAN	NOCF	FEB 81	
YOKOTA AB, JAPAN	DET 17, 30 WS	27 MAR 78	
YONGSAN AI, KOREA	DET 18, 30 WS	NOV 79	AD-A079901
YUMA MCAS, AZ	WEATHER SERVICES DIV	15 APR 80	
ZARAGOZA, SPAIN	DET 16, 31 WS	2 MAR 81	

SECTION J: AIR WEATHER SERVICE

AWS Technical Reports

- "A Background Report on Total Electron Content Measurement," by SMSgt Edward D. Beard, AWS-TR-75-260, December 1975, 30p (AD-A026302).
- "Accuracies of Radiosonde Data," [by V. S. Hardin] AWS TR 105-133, September 1955, 12p (AD-75863) (PB-119159).
- "A Check List for Forecasting Southern California Stratus," AWS TR 105-13, 1944, 35p (ATI-72495). (Formerly WD Report No. 928.)
- "A Compendium on Cirrus and Cirrus Forecasting," by Robert G. Stone, AWS TR 105-130, March 1957, 156p (AD-141546) (PB-132399).
- "A Description of Some Methods of Extended-Period Forecasting," AWS TR 105-93, March 1954, 90p (AD-29380) (PB-114331). (Also reprinted by US Weather Bureau incl corrections in Change A.)
- Change AWS TR 105-93A, October 1954.
- "A Digest of Objective Methods for Forecasting Strong Surface Winds (Southwest United States - Early Spring)," by Thomas H. Simmonds, AWS TR 105-149, April 1959, 84p (AD-218079) (PB-140578).
- "A Guide to Local Dispersion of Air Pollutants," by Maj Gordon A. Beals, AWS TR 214, April 1971, 83p (AD-726984).
- "A History of Air Weather Service Weather Modification 1965-1973," by Capt Henry A. Chary, AWS-TR-74-247, June 1974, 25p (AD-781837).
- "Aircraft Icing Climatology for the Northern Hemisphere," by Maj Edward D. Heath and SMSgt Luther M. Cantrell, AWS TR 220, June 1972, 73p (AD-745098).
- "Aircraft Icing Over Northwest Europe," by 1st Lt H. Ashley, AWS TR 105-46, 2 June 1946, 15p (ATI-65127).
- "Air Density Profiles for the Atmosphere Between 30 and 80 Kilometers," by Roderick S. Quiroz, AWS TR 150, January 1961, 46p (AD-254659).
- "A Model of Ionospheric Total Electron Content," by Maj Allan C. Ramsay, AWS TR 234, June 1970, 34p (AD-873241).
- "Analysis and Forecasting of Tropical Cyclones of 1944 in the Caribbean Sea and Western Atlantic Ocean, with the Aid of Aircraft Reconnaissance Reports and Rawins," [by Maj I. I. Porush] AWS TR 105-15, May 1945, 30p (ATI-114522). (Formerly WD Report No. 962.)
- "Analysis and Forecasting of Tropical Cyclones with Special Reference to the Atlantic Ocean," by Gordon E. Dunn, USWB, AWS TR 105-54, January 1944, reprinted by AAF Weather Wing, May 1944, 35p (ATI-65139).
- "Analysis and Wind Flow at the 50- and 25-mb Levels," [by Dr. A. Kochanski] AWS TR 105-96, May 1953, 76p (AD-17729).
- "An Analysis of the Sea Breeze in the Boston Area," [by Maj William E. Klein, et al.] AWS TR 105-61, June 1945, 78p (ATI-73177).
- "An Application of Kinematic Analysis to Tropical Weather," by Earl C. Kindle, AWS TR 105-51, May 1945, 46p (ATI-65134).
- "An Area Forecasting Study for the Southeastern United States," [by J. J. George, et al.] AWS TR 105-82, November 1951, 53p (ATI-122474).
- "An Error Analysis of Geostrophic 300-mb Numerical Wind-Speed Forecasts," by Maj Walter J. Saucier, AWS TR 105-148, September 1958, 5p (PB-142361).

## AWS Technical Reports

- "An Evaluation of the Operational Utility of Direct Readout Infrared Satellite Data," by Capt Serhij Pilipowskyj, AWS TR 199, March 1968, 18p (AD-668125).
- "An Example of Easterly Wave Analysis in the Western Pacific July 8-10, 1945," [by Dr. Reid A. Bryson] AWS TR 105-75, March 1951, 11p (ATI-98239).
- "An Introduction to Numerical Weather Prediction," [by Lt Col P. D. Thompson] AWS TR 105-120, November 1954, 28p (AD-55556) (PB-116627).
- "An Introduction to Weather Modification," by Herbert S. Appleman, AWS TR 177 (Rev), September 1969, 38p (AD-696619).
- "An Investigation Into the Morphology of Time Series of 500-mb Heights," by Karl Eger, AWS TR 105-144, August 1956, 43p (AD-115669).
- "An Investigation of Atmospheric Density Between Altitudes of 180 Km and 300 Km," by Lt Col Leonard L. DeVries, AWS TR 190, November 1966, 122p (AD-651389).
- "An Investigation of Radar Returns and Their Relationship to Severe Weather Occurrences," by Capt Werner H. Balsterholt, AWS/TR-79/004, November 1979, 99p (microfiche only) (AD-A078858).
- "An Investigation of the Errors in Upper-Level Wind Forecasts," by Maj Hugh W. Ellsaesser, AWS TR 105-140/2, November 1957, 58p (AD-145386) (Printed December 1959).
- "Anomalies in the Northern Hemisphere 700-mb 5-Day-Mean Circulation Patterns," [by Maj Donald E. Martin] AWS TR 105-100/1, April 1956, 26p (AD-95566) (PB-123040).
- Appendix B: "Vorticity - An Elementary Discussion of the Concept," AWS TR 229, August 1956, 27p (AD-117709) (PB-123671). (Formerly AWSM 105-50/1A.)
- "Application of Meteorological Satellite Data in Analysis and Forecasting," AWS TR 212, June 1969, 223p (AD-697033).
- Supplement 1, November 1971, 70p.  
Supplement 2, March 1973, 65p.
- "Applications of Infrared Measurements in Meteorology," by Lt F. B. House and Capt J. R. Blankenship, AWS TR 157, June 1961, 16p (AD-263474).
- "A Preliminary Evaluation of the Meteorological Worth of Sferics Data," AWS TR 105-87, March 1952, 18p (ATI-173319). (See AWS TR 105-102.)
- "A Preliminary Report on the Synoptic Aspects of the Climate of Japan," AWS TR 105-36A-B, August 1945, Part I, 100 p, Part II, 145p (ATI-70924). (Formerly WD Report No. 639 )
- "A Solar Optical Observer's Guide," by SMSgt Richard B. Agee, AWS TR 75-252, September 1975, 59p (AD-A018989).
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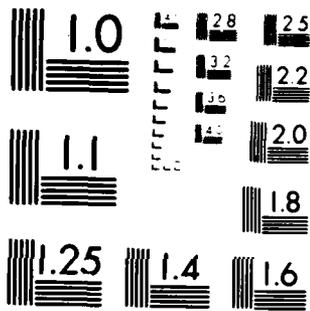
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✦ U.S. GOVERNMENT PRINTING OFFICE: 1982-566-421/28

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