

Box List: Nancy Westcott Papers, [date]
ID: Atmospheric Sciences, UIUC
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Arrangement:

Series 1: Bernice Ackerman, 1955-1988
Series 2: Projects, 1948-2006

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Series 1: Bernice Ackerman

This series includes the papers of Bernice Ackerman. Ackerman was a meteorologist who worked for the Illinois State Water Survey. Westcott used Ackerman's research in her own work; therefore, the papers of Ackerman that Westcott possessed are included in this series. This includes research papers, data, publications, Ph.D. papers, correspondence, drafts, and Metromex report logs. Other papers of Bernice Ackerman are sprinkled throughout the collection, as Westcott's original arrangement was maintained. This series is arranged by Westcott's original arrangement.

Box 1

1. Buoyancy Acceleration and Precip. Formation in Tropical Cu. M.S. Thesis and old Phys. Lab Tech Note 2, c .1955
2. Ackerman "Buoyancy Acceleration and Precipitation Formation", September 1955
3. "The Scale of In-Cloud Variations for some Meteorological Parameters" Research Prospectus, April 1963
4. Prospectus and Progress Reports Ph.D. Research, April 1963
5. Ph.D. Thesis: "A Study of the Fluctuations of Some Meteorological Parameters in Clouds," The University of Chicago, September 1965
6. Reprints – Ackerman Publication, 1960-1985
7. Metromex 1973
 - a. Data Requests
 - b. Borrowed Equipment – Stl, 1973
 - c. (BA) Drafted figs/ MMX rpt
 - d. BA MMX 73 – Draft of section on regional kinetics, MMX
 - e. Metromex: Thermodynamic analyses for final RPT
 - f. MMX '73 (75(?)) Radiosonde miscellaneous notes and tablatures/analyses and summaries
 - g. (BA) MMX '73: "Winds" Misc. Logs/Programming Instructions/Tabulations/Interpretive Notes
8. Metromex 1973
 - a. (BA) MMX 73: Average Wind Fields for Fair Dats. All Levels
 - b. (BA) MMX '73: A Real Averages of Div/Vertical Velocity
 - c. SFCE Temp. Obj. Anal. 1973
9. Metromex 1973

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Series 1: Bernice Ackerman

Box 1

- a. (BA) Averaged Transport Wind Fields – Rain Days
- b. (BA) MMX 73 Averaged Transport Wind (Various Groupings) Fields
- c. (BA) MMX '73: Average Wind Fields: Strong SW Wind Days (Setz)
- d. MMX 73: Average Wind Fields (basic, avge of 7/13, 8/6, 8/7, and 8/8)
 Derived and Deviation (Fair Days)
10. MMX 73: 8/4 and 8/8 Plots (Skewed and Reduced) Also some averaged Fields
11. Obj. Anal. Avge of 20 non rain days, 1973
12. Metromex 1973
 - a. (BA) Metromex '73: Vertical Cross-Sections Divergence and Vertical Velocity
 - b. (BA) MMX '73 Case Studies – Rain Days (PEP Flight Days) July
 - c. MMX 73 – Case Studies (Rain Days) 8/10, 12, 13, 14
 - d. MMX 73: Case Study Rain Day 8/17
13. (BA) MMX '73 Transport Wind Analysis – Rain Days, 1973

Box 2

1. Transport Winds & Div. & Wind Anomalies: July & Aug. 1973 (BA)
2. "1973 Operational Report for Metromex" William P. Lowry, December 1973
3. Metromex Final Report Log and Proc. Records, 1973
4. Bernice Ackerman Personal Files/Impt. Papers, 1956-1988
 - a. ISWS – Personnel Actions
5. National Science Foundation Research Proposal: "Structure of the Planetary Boundary Layer Over a Complex Meso-Region," December 1977
6. "Structure of the Planetary Boundary Layer Over a Complex Meso-Region" Final Report, July 1978
7. Letter about Bernice Ackerman's retirement dinner, February 1988

Series 2: Projects

The series includes projects worked on by Westcott and is arranged into subseries alphabetically: CHAP, CHILL, Fog Study, Metromex, PACE, radar research, Urban Boundary Layer, Urban Heat Island Project 1975 (St. Louis), VIN, and Willard Airport Weather Radar 1950s. These include data, graphs and charts, radar logs, notes, correspondence, maps, publications, satellite photos, Westcott's Ph.D. proposal and defense, drafts, meeting notes, grant applications and progress reports, some conferences, and VHS's, cassettes, and tapes. The subseries are arranged by Westcott's original arrangement.

Box 2

CHAP

8. CHAP 1 – N. Westcott June 27 – Sept. 26, 1977
9. CHAP 2 – N. Westcott Sept. 27 – Feb. 28, 1978
10. CHAP 1977-1979
 - a. CHAP memoranda

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CHILL

11. VHS tape: (3) 7/31/86 1702-1720 - 8/5/86 1154-1322 – 8/6/86 0905-1340
12. VHS tape: CHILL 6 Aug 86 continued
13. VHS tape: CHILL I 6 Aug 86 – PACE 1986 – CHILL I (A.I. a/c) (2 flights)
14. VHS tape: CHILL I FLT 1 26 Aug 86 – PACE 1986 – CHILL I (A.I. a/c) Flight 1
15. VHS tape: CHILL I FLT 2 26 Aug 86 – PACE 1986 – CHILL I (A.I. a/c) Flight 2
16. VHS tape: (8) 8-25-86 1758-1915 / 8-26 0740-1238
17. VHS tape: (9) 8-26-86 1238-1850
18. VHS tape: (10) 1850 – 8/26/86
19. Final Slides 8-6-86 / 8-26-86 / 7-25-86 Satellite Images

Box 3

Fog Study, Westcott

1. 1998 Fog Tower, For Observers
 - a. Fog obs
2. 2000 IDOT fog related crash data – Nancy Westcott state water survey, 1992-1995, 2000
3. IDOT fog related crash data, 2000
4. Fog related automobile accidents (IDOT), 1992-1993
5. Newspaper article: "Fog a Factor in Accidents Near Watseka" by Tim Mitchell, March 2010
6. Exploratory Analyses of Fog Events, 1998-2000
 - a. Unedited climatological data Oct 98 – May 99 Willard Airport Station
 - b. Nov 30 – Dec 1 1998
 - c. Fog Case 12/13-14/1998
 - d. Dec 20, 1998 fog case
 - e. January 17th, 1999 fog case
 - f. January 22 – 1999
 - g. 1999
 - h. 2000
7. Fog Trends Analysis, c. 2001
 - a. SO₂ Emission
8. Fog study station comparisons, 2001
9. Statistical analyses of weather variables related to fog events, 2001-2002
10. Prelims and Coursework, 1999-2000
11. Proposal and Defense for Ph.D. and associated data/analyses, c. 2000
12. 2003 Synoptic Info.
13. Synoptic typing of fog events work from 2003
14. Fog Characterization, 1999-2004
 - a. Defining fog events c. 1999
15. 2005 Printouts: Final event categories
16. Station lists, maps, events, 2006 printouts

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Box 4

1. Fog event time series 1948-1969, 1995-1996
2. Tulsa, Oklahoma – Fog, 2005
3. Fog 2006 – proposal
4. NSF 06
5. Supporting work for Westcott 2009 A Climatology and Case Study of Continental Cold Season Dense Fog Associated with Low Clouds (1 of 2)
6. Supporting work for Westcott & Kristovich 2009. A Climatology and Case Study (2 of 2)
 - a. Nov 7, 2006
7. Manuscripts, CTAs, 2005
8. Fog Studies conference preprints and publications, 2001-2009

Metromex

9. Cross reference sheet: Metromex 1973 wind data graphs
 - a. Winds and deviations, July 30, 1973 OVERSIZE
 - b. Arithmetic Average Wind Direction and Speed, 1973 OVERSIZE
 - c. Delta wind: direction streamlines and isotachs, 1973 OVERSIZE
 - d. Transport wind: mixed depth / vectoral averaged delta wind: direction streamlines and isotachs, 1973 OVERSIZE
 - e. Transport wind: mixed depth / vectoral averaged delta wind: direction streamlines and isotachs, 1973 OVERSIZE
 - f. Pibal winds, 7/14/1973 OVERSIZE
 - g. D-value arc, T arc, BCC, and PMQ charts, July 30, 1973 OVERSIZE
 - h. Pibal wind, 7/14/1973 OVERSIZE
10. Slides of people working – probably Scott Air Force Base, Argonne Partners, Metromex 1971
11. 1975 Metromex Radar personal operator logs
12. MMX – Mean Thermodynamic Profiles and STD. Dev. – plots 1973/75 (for MMX final)
13. Satellite photographs for PEP 1973
14. Flight paths August 1973
15. Cross reference sheet: data tables for July 1973 flights
 - a. Table I – Thermodynamic Data for Contact Levels, July 14, 1973 OVERSIZE
 - b. Interpolation Tables for MSL and AGL, July 30, 1973 OVERSIZE
 - c. Interpolation Tables for MSL and AGL, July 30, 1973 OVERSIZE
 - d. Storm Totals Storm #45 July 30, 1973 1525-2105 OVERSIZE
 - e. Hourly Rainfall 7/30/73 1400-1500, no rain 13-14 OVERSIZE
 - f. 7/30/73 Totals – Interpolation Tables for MSL and AGL, July 30, 1973 OVERSIZE
 - g. Pimap 7/30/73 OVERSIZE
16. Maps; Storm Classes & Motion, 1969-1978
17. Wind Speed x Direction Anderson – Chagnon, 1972-1977
 - a. Stans paper & wind roses
18. Metromex rain gages 1975 VIN
19. 1978 Cap Synoptic Class

PACE

20. Radar Echo Tracking and Properties oversize cross reference sheet, 1986
 - a. Radar Echo Tracking and Properties (1 of 6), 1986 OVERSIZE
 - b. Radar Echo Tracking and Properties (2 of 6), 1986 OVERSIZE

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Box 4

- c. Radar Echo Tracking and Properties (3 of 6), 1986 OVERSIZE
- d. Radar Echo Tracking and Properties (4 of 6), 1986 OVERSIZE
- e. Radar Echo Tracking and Properties (5 of 6), 1986 OVERSIZE
- f. Radar Echo Tracking and Properties (6 of 6), 1986 OVERSIZE

Box 5

1. PACE paper drafts, data, and correspondence, 1992
 - a. PACE paper 2 chapter 7
 - b. PACE paper 1
 - c. Vertical growth
 - d. Seedability index
2. Composite Plots, 1992
 - a. AgI – Non-AgI differences Texas/Illinois
 - b. Total Sample Composite Plots (AgI = 35 Sand = 32)
 - c. Cold front (AgI = 21 Sand = 12)
 - d. No echo w/ top ≥ 10 km w/in 25, 10km of FTE
 - e. Days w/ 2 Exp Units
 - f. 53 cores – zeroes included plots w/w/out std error
 - g. Other facing (sand = 7)
 - h. Air Mass (AgI = 14; sand = 13)
 - i. Non Hail – Small CAPE
 - j. Hail, Large Cape
 - k. Stratified by Time of Max H+ relative to treatment
 - l. Stratified by FECPt (age at treatment)
3. Correspondence related to PACE, 1984-1986
4. PACE notebooks, 1984-1987
5. "Operational Plan for PACE 1986 Field Operations" – Stanley A. Chagnon, July 1 1986
6. Braham Mtg 9-15-87
7. PACE 1986, 1986-1987
8. PACE 1986 Field Program
 - a. PACE 1986 Planning Meeting
 - b. '86 PACE Field Project
 - c. 1986 Daily Dynamic Descriptions
 - d. PACE 1986 CLD Base Temp; Max Echo Top
9. 7/25/86 – PACE data
10. Aug 26, 1986 Flight 1
11. 1986 Class data, 1986, 1993
 - a. Class
12. Aug flights, 1986
 - a. 6 August 86
 - b. 26 August 86 Flight 2
 - c. AI Cloud Pass Data
 - d. PACE86 A/C – Radar Positions
13. 12Z Model Runs PACE 86
 - a. Salem 12Z 1986
 - b. Peoria – 12Z 1986
 - c. Salem 00Z 1986
 - d. Peoria 00Z 1986

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Box 5

14. Maps & Distances Flights on 8/26 & 8/6 1986

Box 6

1. PACE 1986 Echo Characterization stats on Flight Days
 - a. Frequency of Growth Rates
 - b. Frequency of Basis Echo Char
 - c. Echo Char. Data Files and correlations
 - d. Scatter/Corr max Values
 - e. Scatter/Corr Value at Treatment v.s. Max Top or Max Area
 - f. Scatter/Corr Value at ist detect/ is treat v.s. post Δ / v.s. post Δ
2. PACE 1986 satellite images
3. Working file 1986
4. Correspondence, 1991-1992
5. Journal of weather mod. 1990 article submission & review corres., 1988-1990
6. Westcott Publications, 1979-2002
 - a. Weather Modification (intentional)
 - b. Urban Studies
 - c. Snow
 - d. Cloud Mergers
 - e. Rainfall Studies
 - f. Radar Studies
 - g. Hear Waves
7. NSF Aggregation of Connective Clouds, 1989-1990
8. Data/Analyses, Aggregation of Convective Clouds, ~1986-1992
 - a. Rainfall
 - b. Popman – figures & text Fin2 & Fin3
9. Joanne Simpson visit, 1989
10. Hawaii, 1985
11. Hawaii '85 talk and preprint
12. Boulder '85 talk
13. PACE transparencies and notes, 1986
14. SUNYA talk & transparencies, March 89
15. PACE transparencies and notes, 1986
16. Dering 88 transparencies and talks related to 1986 radar analysis
17. CHILL Mtg (3-31-87) Presentation
18. 3-24-88 Midwest Cloud Physics Mtg
19. 1987 WxMod Conference
20. Flights and talks, 1986-1989
 - a. Cloud areas/Cloud Area Summaries (8-6-86 Flight 2) (8-26-86 Flight 1) (8-26-86 Flight 2)
 - b. 8-26-86 Flight 2 Joint reflect; diff between reflect; distances between cores
 - c. 8-26-86 Joint refl flight 1
 - d. 8-6-86 Joint refl ≥ 10 dBZ Flight 2
 - e. 8-6-86 Basic Reflectivity Data Flight 2
 - f. 8-26-86 Basic Refl. Data flight 1
 - g. 8-26-86 Basic refl. Data Flight 2
 - h. England 1989 talk
21. Correspondence, 1989-1994

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Box 7

1. 1986 CHILL
2. 1989 PACE diary
3. PACE satellite image slides cross reference sheet, May 19, 25, 1989
 - a. PACE satellite images slide, May 19, 25, 1989 OVERSIZE
4. PACE 1989 – Radar vs. Aircraft positions
5. PACE 89 Facility Requests 1988-189
6. PACE memos 1987-1989
7. PACE memos March 1989-July 1992
8. PACE/Preccip memos – May 1991-Dec. 1992
9. PACE work., 1988-1989
10. NOAA proposals, 1989-1991
11. 1992-3 proposal preccip
12. Data for Chagnon 1992 Journal of Applied Meteorology 31: 587-604 DOI: 10.1175/1520-0450(1992)031<0587:TASRBH>2.0.CO;2
 - a. 6-1-89 A-D
 - b. 6-1-89
 - c. 6-3-89
 - d. 6-23-89 Streaks A&B
 - e. 6-23-86 Streaks D&E
 - f. 6-23-89 Streaks C
 - g. 7-8-89 IJ
 - h. 7-8-89 A-G
 - i. 7-8-89
 - j. 7-11-89 A-G
 - k. 7-11-89
13. Post PACE 1989 Planning, 1989-1990
14. Radar Tapes at Willard, 1989-1991
15. 1989 Storm Data, 1995
16. Old (Yuen) Tracking Program, 1978-1982

Box 8

1. Nancy Westcott Merger paper references/PACE references (radar), 1984
2. PACE89 class, 1990

Radar Research

3. CHILL Radar
 - a. CHILL radar documentation
 - b. Calibrations
 - c. CHILL meeting notes, memos
 - d. NIMROD CHILL logs, 1978
4. CHILL Metromex radar log Steve Hilberg, 1971
5. Joliet Radar log Hot Radar Installation, 1977
6. Hot Radar Daily Summaries, 1977
7. FPS-18 Log, 1978
8. Sesame & Early VIN, 1979
9. 1979 VIN (late) 1980 IL
10. PACE 86 laboratory notebook
11. CHILL radar log/tapes 88IL xxx
12. CHAP records, 1977-1978
 - a. 77 operational procedures

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- b. CHAP radar data transmittals
- c. Hydromet studies
- d. 1978 Vertical Data
- 13. CHILL info, 1976-1990
 - a. 1986 Radar Calibrations
 - b. 1979 Storms VIN
 - c. CHILL 1979 calibrations Jul 24 Jul 30
 - d. 1976 CHILL operations
 - e. CHILL 1979 Logs & Info
- 14. Storm-Fest Champaign Radar Site (Hot), 1992
- 15. RDSS, 1993
- 16. Storm File, 1986-1995
- 17. Cross reference sheet: Radar Research slides – VIN and regional analysis, July 1979
 - a. VIN 7/24/79 CASE OVERSIZE
 - b. VIN Network array and analyses, July 1979 OVERSIZE
 - c. 7/30 Regional anal. – streamline and misc. dups, July 30, 1979 OVERSIZE
- 18. NIMROD, 1978
- 19. Stahlhut, Westcott NSSFC, 1976-1978
- 20. Westcott OSET #1, August 1st, 1978
- 21. OSET, grant progress reports, and ISWS memos
 - a. Sept 78 OSET conference
 - b. OSET meeting – Q&A 1978
 - c. Memos
- 22. Cross reference sheet: Westcott radar tapes, 1984-1999
 - a. 1984-1990c lightning data OVERSIZE
 - b. Backup 01 – copy 2 , 1.) rain 90, 2.) vin, 3.) vax backup tape (12-Jan-89), 4.) camp, 5.) chap, 6.) necin, 7.) radnet, 8.) rats OVERSIZE
 - c. /u/ac/Westcott/unicos/jul2479 /may1989 /may2489/ may2589/ may3089 tar format tape 1 OVERSIZE
 - d. /u/ac/Westcott/unicos /jun89 /jul89 /radfil89 tar format tape 2 OVERSIZE
 - e. /u/ac/mfovell tape tar format 4 of 4 OVERSIZE
 - f. Tar backup of selected directories preccip2/nan, 1993-1994, AFGL88, light, Snd86, Snd89, store OVERSIZE
 - g. Nan on Trwx Preccip directories, p3nan, p6nan, p4nan, p5nan, p5titan tar 2/10/99 OVERSIZE
 - h. CRAY2 & CRAY3, undated OVERSIZE

Box 9

Urban Boundary Layer

1. Cross reference sheet: Urban Boundary Layer graphs flights and wind/temperature St. Louis, 1971-1975
2. Maps showing flt tracks – summer 1975 / also UBL/MMX sites (also see schematics)
3. Maps – showing flt tracks – winter 1976 (also see schematics)
4. UBL '75 – A/C programs and processing notes, 1972-1975
5. UBL – misc notes, texts, ref. materials, etc., 1975-1980
6. EPA Radiosonde data Feb 21, 1975
7. 2/28/75 summary and misc. anal. (A/C)
8. 7/14 and 15/75 Aircraft Analysis includes dissip rate (for report – UBL, July '78)

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Box 9

9. 7/16/75 data
10. 7/19/75 obj. analysis
11. 7/21/75 Time Series Plots – Bdry lyr
12. 7/26-27/75 wind direction and speed
13. 7/25-26 misc. analysis, 1975
14. 7/28-29/75: Profiler, Soundings, etc. for time series anal.
15. UBL – July 28-29 Pibal, Radiosondes, Synoptic Charts, 1975
16. Dissipation rate / Turb. Intensity – computations eqns, 1975-1977
17. UBL final report draft cross reference sheet, 1975-1979
 - a. UBL final report draft, 1975-1979 OVERSIZE
18. 16 July 1975 – Pibal
19. VIN: Vertical velocity and surface temperatures, July 16, 1975
20. Regional scale surface analysis, July 16, 1975
21. Cross reference sheet: St. Louis satellite images and maps, 1971-1975
 - a. St. Louis satellite images and maps, 1971-1975 OVERSIZE
22. UBL dew point temp, streamlines and isotachs, and divergence times, 1975
23. St. Louis map: B.A. master showing location of aerial photos, c. 1975
24. Land use classification, 1974
25. Tower locations, plane tracks, 1971, 1975?
26. Flt tracks, 1975, 71
27. Base maps, 1971-1975
28. Cross reference sheet: figures for 8 July, 1975-1989
 - a. Figures for 8 July, 1975-1989 OVERSIZE
29. 15 July 75, 15, 18, 21, 0001 (2401), satellite images
30. 14 July 75, 15, 18, 21, 0001 (2401) satellite images
31. 8 July 75, 15, 18, 21 satellite images
32. Cross reference sheet: VFR terminal area chart St. Louis, 1975
33. Double T. St. Louis, 1975
34. UBL 75 data, 1975
35. 2200 Wang Program, 1977

Box 10

1. Aerial Photographs St. Louis (1 of 3), 1971, 1975
2. Aerial Photographs St. Louis (2 of 3), 1971, 1975
3. Aerial Photographs St. Louis (3 of 3), 1971, 1975

Box 11

1. FLT 1, Feb. 17. 1975
2. FLT 2, Feb. 19, 1975
3. FLT 3, Feb. 20, 1974
4. FLT 4, Feb. 20 Night, 1975
5. FLT 5, 21 Feb. 1975
6. FLT 6, Feb. 25, 1975
7. FLT 7, Feb. 26, 1975
8. FLT 8, 27 Feb. 1975 Night
9. FLT 9, Feb. 28, 1975
10. 1 July 1975 and 2 July 1975
11. FLT 10, July 3, 1975

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Box 11

12. FLT 11, July 7, 1975
13. FLT 12, July 8, 1975
14. FLT 13, July 9, 1975
15. FLT 14 July 10, 1975
16. FLT 15, July 12, 1975
17. FLT 16, July 14, 1975
18. FLT 18, July 16, 1975
19. FLT 19, July 18, 1975
20. FLT 21, July 22, 1975
21. FLT 22, July 24, 1975
22. FLT 23, July 25-26, 1975
23. FLT 24, July 26, 1975
24. FLT 25, July 27, 1975
25. FLT 26, 29 July 1975
26. FLT 27, July 30, 1975
27. Greg Dzurisin Field Notebook Boundary Layer Profiler "Triad" Rural Site
28. UBL field notebook Greg Fetter, Boundary Layer Profiler, Downtown St. Louis, 1975
29. Boundary Layer Profiler – Description/Data Reduction Instruc., 1975
30. BLP Surface Values (Newestcott tabulations), July 15, 1975
31. Boundary Layer Profiler – 1975 July data reduction logs, data quality summary – processed data log/smog tape zone
32. 24, 25 July 75 Nocturnal Profiler Data
33. B. Prof. 7/14/75
34. Graphs – profiler data, 15 July 75
35. BLP Plots, 7/25-26/75
36. Graphs – Profiler data – 26-27 July 75
37. BLP plots 7/28-29/75
38. UBL reports, 1980
39. 7/5/75 Profilers. Measured
40. 7/7/75 Profiler data measured

Box 12

1. Night of July 9-10, 1975 profilers
2. 7/8/75 profilers
3. July 14, 1975 profiles
4. July 15, 1975 profiles
5. 7/16/75 profiles
6. July 18, 1975 profiles
7. 7/21/75 profiles
8. July 24-25, 1975 profiles
9. July 22, 1975 profiles
10. 7/25-26/75 profiles
11. 7/26-27/75 profiles
12. 7/27/75 profiles
13. July 3, 1975 profilers texts. Measured
14. July 28-29, 1975 profiles 02 JY 75 BP DATA
15. 7/30/75 profiles

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Box 12

16. Cross reference sheet: flights tapes – summer 1975 (flights 10-27, and test/orientation) and winter 1975 (flights 1-3, 5-9)
 - a. 1 July 1975 Test and Orientation FLT / Flight 10 side 1 July 3, 1975 OVERSIZE
 - b. FLT 10 side 2 July 3, 1975 OVERSIZE
 - c. FLT 11 7 July 1975 side 1 /FLT 11 7 July 1975 side 2 OVERSIZE
 - d. FLT 12 July 8, 1975 / FLT 12 July 8, 1975 side 2 OVERSIZE
 - e. FLT 13 July 9, 1975 / FLT 14 July 10 OVERSIZE
 - f. FLT 15 July 12, 1975 OVERSIZE
 - g. FLT 16 July 14, 1975 OVERSIZE
 - h. FLT 17 OVERSIZE
 - i. FLT 18 side 1 (NOTE – problems with tape, works only first 2/3 side 1) OVERSIZE
 - j. FLT 18, July 16 side 2 / FLT 19 July 18, 1975 side 1 OVERSIZE
 - k. FLT 19 side 2 OVERSIZE
 - l. FLT 20 21 July, 1975 side 1 / FLT 20 21 July 1975 side 2 OVERSIZE
 - m. FLT 21 July 22 OVERSIZE
 - n. FLT 22 & 23a OVERSIZE
 - o. FLT 22b & 23c OVERSIZE
 - p. FLT 24 FLT 25 OVERSIZE
 - q. FLT 26 & 27 OVERSIZE
 - r. Mon. Feb. 17 & 19, 75 FLT 1 / FLT 2 Wed. Feb. 19 OVERSIZE
 - s. FLT 3 Feb. 19, 1975 day / FLT 5 Feb. 21, 1975 OVERSIZE
 - t. FLT 6 2/25/75 / FLT 7 2/26/75 OVERSIZE
 - u. FLT 8, Feb. 27, 1975 / FLT 9 Feb. 28, 1975 OVERSIZE
17. Kodak slides – sites 75, 79 Feb '75
18. Weather conditions, July and August, 1975
19. Cross reference sheet: 30 July 28 Feb 1975
 - a. Flight data 30 July 28 Feb 1975 OVERSIZE
20. St. Louis vegetation & building MPR c. 1975
21. UBL & VIN – maps, 1975
22. UBL info and case study, 1975
 - a. 14th, 15th case study
 - b. July 8 case study
 - c. 14, 15 July 1975 UBL SFC
 - d. General UBL info
 - e. UBL appendix Nancy Westcott
23. Boundary Layer Project, 1975-1980
 - a. UBL & VIN land-use classifications
 - b. Transition to UBL wind network
 - c. 25-27 July 75
 - d. UBL – wind stats & plots
 - e. UBL & VIN T, P
 - f. T_d – UBL
24. UBL 1 June 1979 – August 1980
25. UBL: 2 + VIN Sept. 1980-

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Box 12

Urban Heat Island Project 1975 (St. Louis) data and grant admin docs.

26. St. Louis surface winds – WD, WS/divergence/vorticity, 8 July 1975
27. St. Louis 1975 UBL surface + 8+ d analysis, 8 July 1975
28. S T extended network St. Louis Pibal speed, divergence, vorticity, July 8, 1975
29. UBL St. Louis vertical velocities 000m agl – 1350m msl, 8 July, 1975

Box 13

1. 7/8/75 Single T Profile and ISWS (?)
2. B. P. Rof, 7/8/75
3. 8 July 1975 – UBL/Aircraft anal.
4. Regional Analysis 8 July 75 (+,- divergence)
5. 7/8/75 Misc. analysis & Write-ups Boundary Layer Profiles
6. 8 July 1975 – misc. UBL analyses – work sheets
7. July 8 1975: surface O.A. xerox copies
8. Pibal wind data, 30 July 1975
9. 7/30/75 General & others (Includes Bdry Lyr Profile)
10. 7/30/75 Pibals
11. Regional Analysis 30 July 75
12. UBL surface divergence 30 July 75
13. 30 July 1975 wind (streamlines and isotachs) and divergence averages
14. United State Environmental Protection Agency: summary of RAPS field expeditions, April 19, 1977
15. Regional Air Pollution Study: experimental activities, 1975
16. Urban Heat Island Circ NSF funding award letter & other related docs, 1974
17. NSF proposal/grant/final RPT form "structure of PBL over complex meso region" (UBL II) 1979-80
18. EPA grant agreement, 1974-1977
19. UBL/EPA grant – progress and final reports, 1975-1978
20. NSF UBLI final report, July 1978
21. NSF proposal/grant/final report form "structure of PBL over Complex Meso-Region" (UBL-1), 1976-78
22. UBL papers, 1977-1996
23. FOF request 1975 – Boundary Layer Profiler
24. NCAR Aircraft Request, 1975
25. Urban Inf. On SFCE BDRY LYR New/BA draft of MS. (case study, Jul. 14-15, 1975)
26. Case study, 8 July 1975 (draft for UBL II final RPT)
27. 7/30/75 Write-Ups – Summaries
28. UBL II sections of final report draft (never completed), 1980
29. -UBL- transparencies (maps, also hard copy grids), 1975
30. Opns desc/data/logs etc. all participants, STL, 1975
31. 1975 network/MMX & RAPS
32. Misc. logs, summaries, etc., 1975
33. RAPS data, 1975-1978
34. Boundary Layer Profiler description and site/ops info, 1975
35. OPS Summary and FLT data – wint 1975 (UBL), 1975-1976
36. UBL summer 75 some misc. information
37. A/C instrumentation, 1975-1976

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38. Flight Tape and Microfilm logs. UBL 1975 (sum. and winter)
39. FLT tracks – 1975 – Feb & July Schematics
40. NCAR A/C Processing (& problems) UBL flights, 1975
41. IBM 360 GBytes – PGM to read CDC TAP B3 on IBM, 1974

Box 14

VIN

1. ECIN data, 1955-1966
2. VIN appendix original, c. 1975
3. Final VIN appendix, 1975
4. Wind studies, 1975
 - a. VIN St. L.A.P. sfc. Winds
 - b. VIN ISWS sfc. Winds
 - c. ISWS upper aid 1975 VIN
 - d. RAMS & RAPS 1975 VIN St. Louis wind
5. Wind, 1975
 - a. Averaging wind direction and speed
 - b. Plots WSAV & WDAV
 - c. WSU, WSAV, WSA, WSVA compare
 - d. Wind spd & dir frequencies
 - e. Monthly, summer WSV & WDV
 - f. VIN wind stats & plots
 - g. Monthly, summer (-> Aug. 18) WSAV
6. RAPS Final Report – station descriptions, 1977-1978
 - a. WS & WD station descriptions VIN
7. VIN #1, Westcott, 1 Aug. 1978
8. Army (Vin field program), 1978-1980
 - a. 30 July 79
 - b. VIN & year II
 - c. VIN 1980

Willard Airport Weather Radar 1950s

9. "RHI Radar Observations of a Tornado" by J Schuetz and G.E. Stout, 1958
10. Radar Photos, July 1951-April 1956
11. VHS: 60 minutes, Ed Krug Aug 14- Aug 31
12. VHS: CHILL demo 3/5/87 / Adage Loups from 8/25/86 / Beam Distortion
13. VHS: unlabeled, undated
14. 35mm film roll: 3, TPS-10, 4/9-14/1953
15. 35mm film roll: 14T, TPS-10 radar, 5/31/1954
16. 35mm film roll: 15T, TPS-10 radar, 5/31/1954 – 6/1/1954
17. 35mm film roll: 16T, TPS-10 radar, 7/28/1954
18. Film roll: 119, TPS-10 radar, 4/2-3/1956
19. Film roll: 120, TPS-10 radar, 4/3/1956
20. Film roll: 121, TPS-10 radar, 4/3/1956
21. Film roll: 122, TPS-10 radar, 4/3/1956 (Chagnon)
22. Film roll: 123, TPS-10 radar, 4/3/1956
23. Film roll: 124, TPS-10 radar, 4/3/1956
24. Film roll: 125, TPS-10 radar, 4/3/1956
25. 35mm film roll: 30A, APS-15 radar, 5/27-28/1954
26. 35mm film roll: 31A, APS-15 radar, 5/28/1954

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1. 35mm film roll: 32A, APS-15 radar, 5/28/1954
2. 35mm film roll: 33A, APS-15 radar, 5/28/1954
3. 35mm film roll: 34A, APS-15 radar, 5/28-31/1954
4. 35mm film roll: 35A, APS-15 radar, 5/29-31/1954
5. 35mm film roll: 36A, APS-15 radar, 5/31/1954
6. 35mm film roll: 37A/11AI, APS-15 radar, 5/31/1954
7. 35mm film roll: 38A, APS-15 radar, 5/31 – 6/1/1954
8. 35mm film roll: 39A, APS-15 radar, 5/31 – 6/2/1954
9. 35mm film roll: 40A, APS-15 radar, 6/1-2/1954
10. 35mm film roll: 41A, APS-15 radar, 6/2-3/1954
11. 35mm film roll: 42A, APS-15 radar, 6/2-3/1954
12. 35mm film roll: 43A, APS-15 radar, 6/3-7/1954
13. 35mm film roll: 44A, APS-15 radar, 6/3-7/1954
14. 35mm film roll: 45A, APS-15 radar, 6/7/1954
15. 35mm film roll: 46A, APS-15 radar, 6/7-8/1954
16. 35mm film roll: 47A, APS-15 radar, 6/8-12/1954
17. 35mm film roll: 115A, APS-15 radar, 10/6-10/1954
18. 35mm film roll: 116A, APS-15 radar, 10/10-11/1954
19. 35mm film roll: 117A, APS-15 radar, 10/11/1954
20. 35mm film roll: 118A, APS-15 radar, 10/11-14/1954

Oversize Series 2: Projects

Box 16 OVERSIZE

1. Winds and deviations, July 30, 1975
2. Arithmetic Average Wind Direction and Speed, 1973
3. Delta wind: direction streamlines and isotachs, 1973
4. Transport wind: mixed depth / vectoral averaged delta wind: direction streamlines and isotachs, 1973
5. Transport wind: mixed depth / vectoral averaged delta wind: direction streamlines and isotachs, 1973
6. Pibal winds, 7/14/1973
7. D-value arc, T arc, BCC, and PMQ charts, July 30, 1973
8. Pibal wind, 7/14/1973
9. Radar Echo Tracking and Properties (1 of 6), 1986
10. Radar Echo Tracking and Properties (2 of 6), 1986
11. Radar Echo Tracking and Properties (3 of 6), 1986
12. Radar Echo Tracking and Properties (4 of 6), 1986
13. Radar Echo Tracking and Properties (5 of 6), 1986
14. Radar Echo Tracking and Properties (6 of 6), 1986
15. PACE satellite image slides, May 19, 25, 1989
16. VIN 7/24/79 CASE
17. VIN Network array and analyses, July 1979
18. 7/30 Regional anal. – streamline and misc. dups, July 30, 1979
19. St. Louis satellite images and maps, 1971-1975

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1. Table I – Thermodynamic Data for Contact Levels, July 14, 1973
2. Interpolation Tables for MSL and AGL, July 30, 1973
3. Interpolation Tables for MSL and AGL, July 30, 1973
4. Storm Totals Storm #45 July 30, 1973 1525-2105
5. Hourly Rainfall 7/30/73 1400-1500, no rain 13-14
6. 7/30/73 Totals – Interpolation Tables for MSL and AGL, July 30, 1973
7. Pimap 7/30/73
8. UBL final report draft, 1975-1979
9. Figures for 8 July, 1975-1989
10. Flight data 30 July 28 Feb 1975
11. VFR terminal area chart St. Louis, 1975

Box 18 OVERSIZE

1. 1 July 1975 Test and Orientation FLT / Flight 10 side 1 July 3, 1975
2. FLT 10 side 2 July 3, 1975
3. FLT 11 7 July 1975 side 1 / FLT 11 7 July 1975 side 2
4. FLT 12 July 8, 1975 / FLT 12 July 8, 1975 side 2
5. FLT 13 July 9, 1975 / FLT 14 July 10
6. FLT 15 July 12, 1975
7. FLT 16 July 14, 1975
8. FLT 17
9. FLT 18 side 1 (NOTE – problems with tape, works only first 2/3 side 1)
10. FLT 18, July 16 side 2 / FLT 19 July 18, 1975 side 1
11. FLT 19 side 2
12. FLT 20 21 July, 1975 side 1 / FLT 20 21 July 1975 side 2
13. FLT 21 July 22
14. FLT 22 & 23a
15. FLT 22b & 23c
16. FLT 24 FLT 25
17. FLT 26 & 27

Box 19 OVERSIZE

1. Mon. Feb. 17 & 19, 75 FLT 1 / FLT 2 Wed. Feb. 19
2. FLT 3 Feb. 19, 1975 day / FLT 5 Feb. 21, 1975
3. FLT 6 2/25/75 / FLT 7 2/26/75
4. FLT 8, Feb. 27, 1975 / FLT 9 Feb. 28, 1975
5. 1984-1990c lightning data
6. Backup 01 – copy 2, 1.) rain 90, 2.) vin, 3.) vax backup tape (12-Jan-89), 4.) camp, 5.) chap, 6.) necin, 7.) radnet, 8.) rats
7. /u/ac/Westcott/unicos/jul2479 /may1989 /may2489/ may2589/ may3089 tar format tape 1
8. /u/ac/Westcott/unicos /jun89 /jul89 /radfil89 tar format tape 2
9. /u/ac/mfovell tape tar format 4 of 4
10. Tar backup of selected directories preccip2/nan, 1993-1994, AFGL88, light, Snd86, Snd89, store
11. Nan on Trwx Preccip directories, p3nan, p6nan, p4nan, p5nan, p5titan tar 2/10/99
12. CRAY2 & CRAY3, undated

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This collection also includes papers from Bernice Ackerman. Folder titles added by archivist are included in brackets []. This collection was processed by Lana Kay Tutterow fall 2023 under the supervision of Bethany Anderson.