Index, Volume 88

A

Abnormally cold tropopause temperatures in the equatorial Pacific. (4 figs.) C. L. Jordan. 151–154.

Absorption:
An extension of a table of absorption for Elsasser bands. D. Q. Wark and M. Wolk. 249–250.

Air pollution:
Forecasting air pollution potential. (18 figs.) Lawrence E. Niemeyer. 88–96.

An analysis of barotropic forecast errors in cases of rapid sea level cyclogenesis. (6 figs.) David B. Spiegler. 263–268.

Analysis of some preliminary low-level constant level balloon (tetroon) flights. (13 figs.) J. K. Angell and D. H. Pack. 235–248.

ANDREWS, JAMES F.:
The weather and circulation of May 1960—Including a discussion of the unusual retrogression of 5-day mean polar vortices. (13 figs.) 193–202.

ANGELL, J. K.:
Use of tetroons for mesometeorological investigations. [Correspondence] 277. (Reply by D. C. House. 277.)
and D. H. Pack. Analysis of some preliminary low-level constant level balloon (tetroon) flights. (13 figs.) 235–248.

Antarctica:
Extrapolation of the 50-mb. level from 100-mb. data in Antarctica. (1 fig.) William S. Weyant. 251–255.
A preliminary report on ozone observations at Little America, Antarctica. (14 figs.) H. Wexler, W. B. Moreland, and W. S. Weyant. 43–54.
The seasonal variation of the strength of the southern circumpolar vortex. (4 figs.) W. Schwerdtfeger. 203–208.
Soil temperatures at Cape Hallett, Antarctica, 1958. (5 figs.) Norman S. Benes. 223–227.

An apparent observation of ice crystal haze by radar. (8 figs.) [Weather Note] Patrick E. Hughes. 349–352.

ARCAS temperature data in the mesosphere. (2 figs.) D. E. Ogden and D. B. Swinton. 191–192.

ARMSTRONG, C. L.:
and R. D. Garrett. High altitude wind data from meteorological rockets. (3 figs.) 187–190.

Atmosphere. Convection:
On the theory of disturbances in a conditionally unstable atmosphere. (11 figs.) Douglas K. Lilly. 1–17.

AYER, HAROLD S.:
The wind profile at the crest of a large ridge. (8 figs.) 19–23.

B

BEERS, FRANCIS D.:
and DeVer Colson. Use of extended-range prognosis for fire-weather forecasting. (7 figs.) 131–136.

BENES, NORMAN S.:
Soil temperatures at Cape Hallett, Antarctica, 1958. (5 figs.) 223–227.

BOSEN, JULIUS F.:
A formula for approximation of the saturation vapor pressure over water. (1 fig.) 275–276.

BRISTOR, CHARLES L.:
and Mary Ann Ruzecki. TIROS I photographs of the Midwest storm of April 1, 1960. (11 figs.) 315–326.

C

The circulation at the 10-millibar constant pressure surface over North America and adjacent ocean areas, July 1957 through June 1958. (12 figs.) S. Teweles, L. Rothenberg, and F. G. Finger. 137–150.

Circulation. General:
The seasonal variations of the strength of the southern circumpolar vortex. (4 figs.) W. Schwerdtfeger. 203–208.

Circulation. Low-level:
Analysis of some preliminary low-level constant level balloon (tetroon) flights. (13 figs.) J. K. Angell and D. H. Pack. 235–248.

Climatology:
Mean monthly values of precipitable water over the United States, 1946–56. (1 fig.) Clayton H. Reitan. 25–35.
On a special distribution of maximum values. (2 figs.) Raymond Sneyers. 66–69.
A statistical method for estimating the mean relative humidity from the mean air temperature. (2 figs.) William D. Sellers. 155–157.

Cloud pictures from satellite TIROS I. (10 figs.) S. Fritz and H. Wexler. 79–87.

Clouds:
Jet condensation trail shadows. (2 figs.) [Weather Note] Donald H. Lokke. 181.

COLSON, DEVER:
High level thunderstorms of July 31–August 1, 1959. (10 figs.) 279–285.
and Francis D. Beers. Use of extended-range prognoses for fire-weather forecasting. (7 figs.) 131–136.

Comparison of evaporation from Weather Bureau class A and Bureau of Plant Industry (BPI) sunken pans, Fort Assinniboine, Montana. (1 fig.) R. A. Dightman. 101–106.

COUNTRYMAN, CLIVE M.:
and Mark J. Schroeder. Exploratory fireclimate surveys on prescribed burns. (8 figs.) 123–129.

CRESSMAN, GEORGE P.:
Improved terrain effects in barotropic forecasts. (14 figs.) 327–342.

D

DIGHTMAN, R. A.:
Comparison of evaporation from Weather Bureau class A and Bureau of Plant Industry (BPI) sunken pans, Fort Assinniboine, Montana. (1 fig.) 101–106.

DUNN, CARLOS R.:
The weather and circulation of March 1960—A cold snowy month. (12 figs.) 112–120.

E

EMERSON, MAC A.:
Pressure rise at Yakutat, December 18, 1959. (1 fig.) [Weather Note] 18.

Evaporation:
Comparison of evaporation from Weather Bureau class A and Bureau of Plant Industry (BPI) sunken pans, Fort Assinniboine, Montana. (1 fig.) R. A. Dightman. 101–106.

An experiment in the use of "perfect" prognostic charts. Philip Williams, Jr. 219–222.

Exploratory fireclimate surveys on prescribed burns. (8 figs.) Mark J. Schroeder and Clive M. Countryman. 123–129.

An extension of a table of absorption for Elsasser bands. D. Q. Wark and M. Wolk. 249–250.

Extrapolation to the 50-mb. level from 100-mb. data in Antarctica. (1 fig.) William S. Weyant. 251–255.

F

FINGER, F. G.:
and S. Teweles and L. Rothenberg. The circulation at the 10-millibar constant pressure surface over North America and adjacent ocean areas, July 1957 through June 1958. (12 figs.) 137–150.

Fire weather:
Exploratory fireclimate surveys on prescribed burns. (8 figs.) Mark J. Schroeder and Clive M. Countryman. 123–129.
High level thunderstorms of July 31–August 1, 1959. (10 figs.) DeVer Colson. 279–285.
Use of extended-range prognoses for fire-weather forecasting. (7 figs.) Francis D. Beers and DeVer Colson. 131–136.

Forecasting air pollution potential. (18 figs.) Lawrence E. Niemeyer. 88–96.

Forecasting:
An experiment in the use of "perfect" prognostic charts. Philip Williams, Jr. 219–222.
Forecasing air pollution potential. (18 figs.) Lawrence E. Niemeyer. 88–96.
On the practical use of graphical prediction methods. (1 fig.) Richard J. Reed. 209–218.

Forecasting. Fire-weather:
Use of extended-range prognoses for fire-weather forecasting. (7 figs.) Francis D. Beers and DeVer Colson. 131–136.

Forecasting. Numerical:
An analysis of barotropic forecast errors in cases of rapid sea level cyclogenesis. (6 figs.) David B. Spiegler. 263–268.
Improved terrain effects in barotropic forecasts. (14 figs.) George P. Cressman. 327–342.
On changes in zonal momentum in short-range numerical prediction. (6 figs.) A. Wiin-Nielsen. 55–65.

Forest fires:
High level thunderstorms of July 31–August 1, 1959. (10 figs.) DeVer Colson. 279–285.

A formula for approximation of the saturation vapor pressure over water. (1 fig.) Julius F. Bosen. 275–276.

FORTNER, LIMON E.:
and C. L. Jordan. A non-tornadic spiral-shaped radar echo. (4 figs.) 343–348.

FRITZ, S.:
and H. Wexler. Cloud pictures from satellite TIROS I. (10 figs.) 79–87.

G

GARRETT, R. D.:
and C. L. Armstrong. High altitude wind data from meteorological rockets. (3 figs.) 187–190.

GREEN, RAYMOND A.:
The weather and circulation of January 1960—Another January with Atlantic blocking. (10 figs.) 36–42.
The weather and circulation of July 1960—Persistent heat in the Pacific Northwest. (8 figs.) 257–262.

H

HARRELL, WAYNE:
and E. Arlo Richardson. Measurement of sensible air-ground interface temperatures. (3 figs.) 269–273.

High altitude wind data from meteorological rockets. (3 figs.) C. L. Armstrong and R. D. Garrett. 187–190.

High level thunderstorms of July 31–August 1, 1959. (10 figs.) DeVer Colson. 279–285.

HOECKER, WALTER H., JR.:
Wind speed and air flow patterns in the Dallas tornado of April 2, 1957. (12 figs.) 167–180.

HOUSE, D. C.:
Remarks on the optimum spacing of upper-air observations. (2 figs.) 97–100.
Reply (to correspondence, Use of tetroons for mesometeorological investigations, J. K. Angell. 277). 277.

HUGHES, PATRICK E.:
An apparent observation of ice crystal haze by radar. (8 figs.) [Weather Note]. 349–352.
Hurricanes:
Two unique eastern Pacific hurricanes of 1957. (13 figs). [Weather Note] Rue E. Rush. 107–111.

I

Improved terrain effects in barotropic forecasts. (14 figs.) George P. Cressman. 327–342.
Instruments:
Analysis of some preliminary low-level constant level balloon (tetroon) flights. (13 figs.) J. K. Angell and D. H. Pack. 235–248.
Comparison of evaporation from Weather Bureau class A and Bureau of Plant Industry (BPI) sunken pans, Fort Assinniboine, Montana. (1 fig.) R. A. Dightman. 101–106.
Measurement of sensible air-ground interface temperatures. (3 figs.) Wayne Harrell and E. Arlo Richardson. 269–273.
Use of tetroons for mesometeorological investigations. [Correspondence]. J. K. Angell. 277. (Reply by D. C. House. 277).

J

Jet condensation trail shadows. (2 figs.) [Weather Note]. Donald H. Lokke. 181.
JORDAN, C. L.:
Abnormally cold tropopause temperatures in the equatorial Pacific. (4 figs.) 151–154.
and Limon E. Fortner. A non-tornadic spiral-shaped radar echo. (4 figs.) 343–348.

L

Lightning:
High level thunderstorms of July 31–August 1, 1959. (10 figs.) DeVer Colson. 279–285.
LILLY, DOUGLAS K.:
On the theory of disturbances in a conditionally unstable atmosphere. (11 figs.) 1–17.
LOKKE, DONALD H.:
Jet condensation trail shadows. (2 figs.) [Weather Note] 181.

M

Mean monthly values of precipitable water over the United States, 1946–56. (1 fig.) Clayton H. Reitan. 25–35.
Measurement of sensible air-ground interface temperatures. (3 figs.) Wayne Harrell and E. Arlo Richardson. 269–273.
MORELAND, W. B.:
and H. Wexler and W. S. Weyant. A preliminary report on ozone observations at Little America, Antarctica. (14 figs.) 43–54.

N

NIEMEYER, LAWRENCE E.:
Forecasting air pollution potential. (18 figs.) 88–96.
Nighttime temperature rises in mountain canyons. (1 fig.) [Weather Note] G. F. Von Eschen. 70–71.
A non-tornadic spiral-shaped radar echo. (4 figs.) Limon E. Fortner and C. L. Jordan. 343–348.

O

Observations:
Remarks on the optimum spacing of upper-air stations. (2 figs.) D. C. House. 97–100.
Reply (to correspondence, Use of tetroons for mesometeorological investigations, J. K. Angell. 277) 277.
Use of tetroons for mesometeorological investigations. [Correspondence] J. K. Angell. 277. (Reply D. C. House. 277.)
O'CONNOR, JAMES F.:
The weather and circulation of April 1960—A sharp mid-month drop in the zonal westerlies accompanied by a temperature reversal in the contiguous United States. (7 figs.) 158–166.
OGDEN, D. E.:
and D. B. Swinton. ARCAS temperature data in the mesosphere. (2 figs.) 191–192.
On a special distribution of maximum values. (2 figs.) Raymond Sneyers. 66–69.
On changes in zonal momentum in short-range numerical prediction. (6 figs.) A. Wiin-Nielsen. 55–65.
On the practical use of graphical prediction methods. (1 fig.) Richard J. Reed. 209–218.
On the theory of disturbances in a conditionally unstable atmosphere. (11 figs.) Douglas K. Lilly. 1–17.
Ozone:
A preliminary report on ozone observations at Little America, Antarctica. (14 figs.) H. Wexler, W. B. Moreland, and W. S. Weyant. 43–54.

P

PACK, D. H.:
and J. K. Angell. Analysis of some preliminary low-level constant level balloon (tetroon) flights. (13 figs.) 235–248.
POPHAM, R. W.:
and D. Q. Wark. TIROS I observations of ice in the Gulf of St. Lawrence. (5 figs.) 182–186.
Precipitable water:
Mean monthly values of precipitable water over the United States, 1946–56. (1 fig.) Clayton H. Reitan. 25–35.
Precipitation:
On a special distribution of maximum values. (2 figs.) Raymond Sneyers. 66–69.

A preliminary report on ozone observations at Little America, Antarctica. (14 figs.) H. Wexler, W. B. Moreland, and W. S. Weyant. 43–54.
Pressure rise at Yakutat, December 18, 1959. (1 fig.) [Weather Note] Mac A. Emerson. 18.
Pressure:
Pressure rise at Yakutat, December 18, 1959. (1 fig.) [Weather Note] Mac A. Emerson. 18.
Rapid pressure variations in Iceland. (1 fig.) [Weather Note] Eysteinn Tryggvason. 256.
Publications by Weather Bureau authors. 24, 121, 130, 262, 293.
Publications:
New Weather Bureau publications. 150, 234, 362.

R

Radar meteorology:
An apparent observation of ice crystal haze by radar. (8 figs.) [Weather Note] Patrick E. Hughes. 349–352.
A non-tornadic spiral shaped radar echo. (4 figs.) Limon E. Fortner and C. L. Jordan. 343–348.
Radiation:
An extension of a table of absorption for Elsasser Bands. D. Q. Wark and M. Wolk. 249–250.
Rapid pressure variations in Iceland. (1 fig.) [Weather Note] Eysteinn Tryggvason. 256.
Recent articles in other Weather Bureau periodicals. 255, 362.
REED, RICHARD J.:
On the practical use of graphical prediction methods. (1 fig.) 209–218
REITAN, CLAYTON H.:
Mean monthly values of precipitable water over the United States, 1946–56. (1 fig.) 25–35.
Relative humidity:
A statistical method for estimating the mean relative humidity from the mean air temperature. (2 figs.) William D. Sellers. 155–157.
Remarks on the optimum spacing of upper-air stations. (2 figs.) D. C. House. 97–100.
RICHARDSON, E. ARLO:
and Wayne Harrell. Measurement of sensible air-ground interface temperatures. (3 figs.) 269–273.
ROTHENBERG, L.:
and S. Teweles and F. G. Finger. The circulation at the 10-millibar constant pressure surface over North America and adjacent ocean areas, July 1957 through June 1958. (12 figs.) 137–150.
RUSH, RUE E.:
Two unique eastern Pacific hurricanes of 1957. (13 figs.) [Weather Note] 107–111.
RUZECKI, MARY ANN:
and Charles L. Bristor. TIROS I photographs of the Midwest storm of April 1, 1960. (11 figs.) 315–326.

S

Satellite meteorology:
Cloud pictures from satellite TIROS I. (10 figs.) S. Fritz and H. Wexler. 79–87.
Satellite pictures of a cut-off cyclone over the eastern Pacific. (21 figs.) Jay S. Winston. 295–314.
TIROS I observations of ice in the Gulf of St. Lawrence. (5 figs.) D. Q. Wark and R. W. Popham. 182–186.
TIROS I photographs of the Midwest storm of April 1, 1960. (11 figs.) Charles L. Bristor and Mary Ann Ruzecki. 315–326.
Satellite pictures of a cut-off cyclone over the eastern Pacific. (21 figs.) Jay S. Winston. 295–314.
SCHROEDER, MARK J.:
and Clive M. Countryman. Exploratory fireclimate surveys on prescribed burns. (8 figs.) 123–129.
SCHWERDTFEGER, W.:
The seasonal variation of the strength of the southern circumpolar vortex. (4 figs.) 203–208.
The seasonal variation of the strength of the southern circumpolar vortex. (4 figs.) W. Schwerdtfeger. 203–208.
SELLERS, WILLIAM D.:
A statistical method for estimating the mean relative humidity from the mean air temperature. (2 figs.) 155–157.
SNEYERS, RAYMOND:
On a special distribution of maximum values. (2 figs.) 66–69.
Soil temperatures at Cape Hallett, Antarctica, 1958. (5 figs.) Norman S. Benes. 223–227.
SPIEGLER, DAVID B.:
An analysis of barotropic forecast errors in cases of rapid sea level cyclogenesis. (6 figs.) 263–268.
STARK, L. P.:
The weather and circulation of February 1960—A cold stormy month over the United States associated with widespread blocking. (10 figs.) 72–78.
The weather and circulation of August 1960—A month dominated by a circulation reversal. (9 figs.) 286–293.
A statistical method for estimating the mean relative humidity from the mean air temperature. (2 figs.) William D. Sellers. 155–157.
Stratosphere:
The circulation at the 10-millibar constant pressure surface over North America and adjacent ocean areas, July 1957 through June 1958. (12 figs.) S. Teweles, L. Rothenberg, and F. G. Finger. 137–150.
Extrapolation to the 50-mb. level from 100-mb. data in Antarctica. (1 fig.) William S. Weyant. 251–255.
Suggestions for authors. 294.

SWINTON, D. B.:
and D. E. Ogden. ARCAS temperature data in the mesosphere. (2 figs.) 191–192.

T

Temperature:
Abnormally cold tropopause temperatures in the equatorial Pacific. (4 figs.) C. L. Jordan. 151–154.
ARCAS temperature data in the mesosphere. (2 figs.) D. E. Ogden and D. B. Swinton. 191–192.
Nighttime temperature rises in mountain canyons. (1 fig.) [Weather Note] G. F. Von Eschen. 70–71.

Temperature. Soil:
Measurement of sensible air-ground interface temperatures. (3 figs.) Wayne Harrell and E. Arlo Richardson. 269–273.
Soil temperatures at Cape Hallett, Antarctica, 1958. (5 figs.) Norman S. Benes. 223–227.

TEWELES, S.:
and L. Rothenberg and F. G. Finger. The circulation at the 10-millibar contant pressure surface over North America and adjacent ocean areas, July 1957 through June 1958. (12 figs.) 137–150.

Thunderstorms:
High level thunderstorms of July 31–August 1, 1959. (10 figs.) DeVer Colson. 279–285.

TIROS I observations of ice in the Gulf of St. Lawrence. (5 figs.) D. Q. Wark and R. W. Popham. 182–186.

TIROS I photographs of the Midwest storm of April 1, 1960. (11 figs.) Charles L. Bristor and Mary Ann Ruzecki. 315–326.

TISDALE, C. F.:
The weather and circulation of September 1960—Including a discussion of tropical storm activity. (9 figs.) 353–361.

Tornadoes:
Unusually wide tornado path. (1 fig.) [Weather Note] Dansy T. Williams and Joel J. Woodside. 227–228.
Wind speed and air flow patterns in the Dallas tornado of April 2, 1957. (12 figs.) Walter H. Hoecker, Jr. 167–180.

TRYGGVASON, EYSTEINN:
Rapid pressure variations in Iceland. (1 fig.) [Weather Note] 256.

Two unique eastern Pacific hurricanes of 1957. (13 figs.) [Weather Note] Rue E. Rush. 107–111.

U

Unusually wide tornado path. (1 fig.) [Weather Note] Dansy T. Williams and Joel J. Woodside. 227–228.

Upper air:
ARCAS temperature data in the mesosphere. (2 figs.) D. E. Ogden and D. B. Swinton. 191–192.
High altitude wind data from meteorological rockets. (3 figs.) C. L. Armstrong and R. D. Garrett. 187–190.

Use of extended-range prognoses for fire-weather forecasting. (7 figs.) Francis D. Beers and DeVer Colson. 131–136.

Use of tetroons for mesometeorological investigations. [Correspondence] J. K. Angell. 277. (Reply by D. C. House. 277.)

V

Vapor pressure:
A formula for approximation of the saturation vapor pressure over water. (1 fig.) Julius F. Bosen. 275–276.

Verification:
An experiment in the use of "perfect" prognostic charts. Philip Williams, Jr. 219–222.

VON ESCHEN, G. F.:
Nighttime temperature rises in mountain canyons. (1 fig.) [Weather Note] 70–71.

W

WARK, D. Q.:
and R. W. Popham. TIROS I observations of ice in the Gulf of St. Lawrence. (5 figs.) 182–186.
and M. Wolk. An extension of a table of absorption for Elsasser bands. 249–250.

Weather Notes:
An apparent observation of ice crystal haze by radar. (8 figs.) Patrick E. Hughes. 349–352.
Jet condensation trail shadows. (2 figs.) Donald H. Lokke. 181.
Nighttime temperature rises in mountain canyons. (1 fig.) G. F. Von Eschen. 70–71.
Pressure rise at Yakutat, December 18, 1959. (1 fig.) Mac A. Emerson. 18.
Rapid pressure variations in Iceland. (1 fig.) Eysteinn Tryggvason. 256.
Two unique eastern Pacific hurricanes of 1957. (13 figs.) Rue E. Rush. 107–111.
Unusually wide tornado path. (1 fig.) Dansy T. Williams and Joel J. Woodside. 227–228.

Weather, U.S., 1960:
The weather and circulation of January 1960—Another January with Atlantic blocking. (10 figs.) Raymond A. Green. 36–42.
The weather and circulation of February 1960—A cold stormy month over the United States associated with widespread blocking. (10 figs.) L. P. Stark. 72–78.
The weather and circulation of March 1960—A cold snowy month. (12 figs.) Carlos R. Dunn. 112–120.

Weather, U.S., 1960—Continued
The weather and circulation of April 1960—A sharp mid-month drop in the zonal westerlies accompanied by a temperature reversal in the contiguous United States. (7 figs.) James F. O'Connor. 158–166.
The weather and circulation of May 1960—Including a discussion of the unusual retrogression of 5-day mean polar vortices. (13 figs.) James F. Andrews. 193–202.
The weather and circulation of June 1960—A hot dry month in the Southwest. (7 figs.) Charles M. Woffinden. 229–234.
The weather and circulation of July 1960—Persistent heat in the Pacific Northwest. (8 figs.) Raymond A. Green. 257–262.
The weather and circulation of August 1960—A month dominated by a circulation reversal. (9 figs.) L. P. Stark. 286–293.
The weather and circulation of September 1960—Including a discussion of tropical storm activity. (9 figs.) C. F. Tisdale. 353–361.

WEXLER, H.:
and S. Fritz. Cloud pictures from satellite TIROS I. (10 figs.) 79–87.
and W. B. Moreland and W. S. Weyant. A preliminary report on ozone observations at Little America, Antarctica. (14 figs.) 43–54.

WEYANT, WILLIAM S.:
Extrapolation to the 50-mb. level from 100-mb. data in Antarctica. (1 fig.) 251–255.
and H. Wexler and W. B. Moreland. A preliminary report on ozone obervations at Little America, Antarctica. (14 figs.) 43–54.

WIIN-NIELSEN, A.:
On changes in zonal momentum in short-range numerical prediction. (6 figs.) 55–65.

WILLIAMS, DANSY T.:
and Joel J. Woodside. Unusually wide tornado path. (1 fig.) [Weather Note] 227–228.

WILLIAMS, PHILIP, JR.:
An experiment in the use of "perfect" prognostic charts. 219–222.

The wind profile at the crest of a large ridge. (8 figs.) Harold S. Ayer. 19–23.

Wind speed and airflow patterns in the Dallas tornado of April 2, 1957. (12 figs.) Walter H. Hoecker, Jr. 167–180.

Winds:
Exploratory fireclimate surveys on prescribed burns. (8 figs.) Mark J. Schroeder and Clive M. Countryman. 123–129.
High altitude wind data from meteorological rockets. (3 figs.) C. L. Armstrong and R. D. Garrett. 187–190.
The wind profile at the crest of a large ridge. (8 figs.) Harold S. Ayer. 19–23.

WINSTON, JAY S.:
Satellite pictures of a cut-off cyclone over the eastern Pacific. (21 figs.) 295–315.

WOFFINDEN, CHARLES M.:
The weather and circulation of June 1960—A hot dry month in the Southwest. (7 figs.) 229–234.

WOLK, M.:
and D. Q. Wark. An extension of a table of absorption for Elsasser bands. 249–250.

WOODSIDE, JOEL J.:
and Dansy T. Williams. Unusually wide tornado path. (1 fig.) [Weather Note] 227–228.

U.S. GOVERNMENT PRINTING OFFICE: 1960