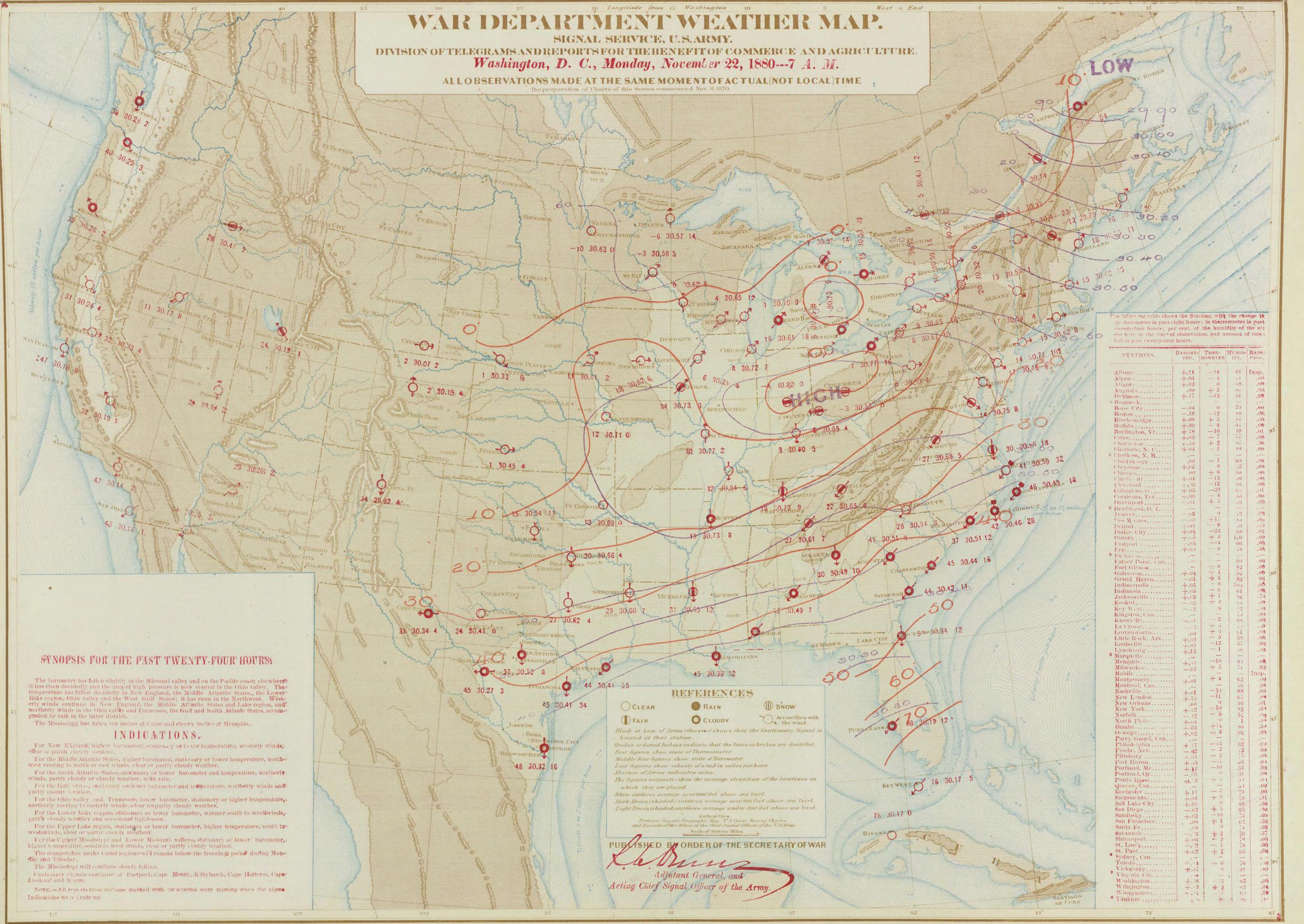


WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U.S. ARMY.
DIVISION OF TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.
Washington, D. C., Monday, November 22, 1880---7 A. M.

ALL OBSERVATIONS MADE AT THE SAME MOMENT OF ACTUAL (NOT LOCAL) TIME
The preparation of Charts of this Series commenced Nov. 8. 1870.



The following table shows the Stations, with the change in the barometer in past eight hours; in thermometer in past twenty-four hours; per cent. of the humidity of the air now at the time of observation; and amount of rain that fell in past twenty-four hours.

STATIONS.	BAROMETER.	TEMPERATURE.	HUMIDITY.	RAIN.
Albany	+14	-14	81	Trace.
Albion	+04	-4	81	.00
Albion	+02	9	88	.00
Albion	+09	+5	91	.00
Baltimore	+17	-12	91	.08
Baltimore	+08	-4	91	.00
Boston	-04	0	29	.00
Boston	-18	-12	88	.06
Brookridge	+09	+5	77	.00
Buffalo	+09	-12	89	.00
Burlington, Vt.	+18	-10	88	.01
Charleston	+03	-7	77	.00
Charleston	-10	+2	91	.00
Charleston, N. C.	+04	-1	88	.00
Charleston, N. C.	-01	-1	69	.00
Chicago	-01	-1	69	.00
Chicago	+02	9	72	.00
Chicago	-09	+6	80	.00
Chicago	+09	-12	89	.00
Chicago	-03	-12	89	.00
Cincinnati	+05	-29	6	.01
Cincinnati	-08	-4	84	.00
Davenport	-01	+2	91	.00
Davenport	-02	9	72	.00
Davenport	-03	+17	84	.00
Des Moines	-01	-8	91	.00
Des Moines	+04	-28	68	.02
Des Moines	-03	+3	100	.00
Eastport	-04	-14	90	.00
Eastport	+09	6	88	.08
Essex	-01	-1	88	.00
Essex	-02	9	72	.00
Essex	-03	+17	84	.00
Essex	-01	-8	91	.00
Essex	+04	-28	68	.02
Essex	-03	+3	100	.00
Essex	-04	-14	90	.00
Essex	+09	6	88	.08
Essex	-01	-1	88	.00
Essex	-02	9	72	.00
Essex	-03	+17	84	.00
Essex	-01	-8	91	.00
Essex	+04	-28	68	.02
Essex	-03	+3	100	.00
Essex	-04	-14	90	.00
Essex	+09	6	88	.08
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Essex	+09	6	88	.08
Essex	-01	-1	88	.00
Essex	-02	9	72	.00
Essex	-03	+17	84	.00
Essex	-01	-8	91	.00
Essex	+04	-28	68	.02
Essex	-03	+3</		

WAR DEPARTMENT WEATHER MAP.

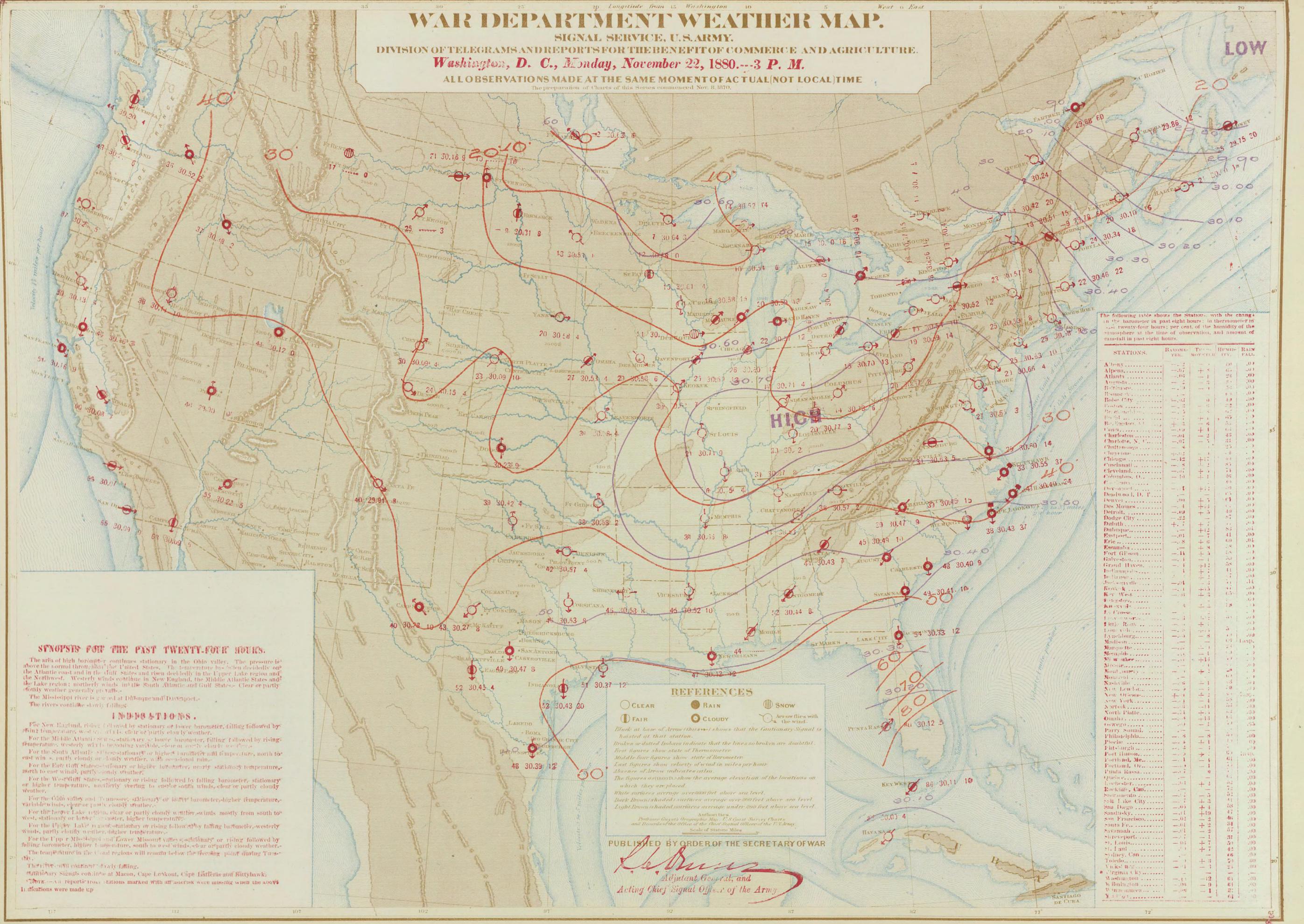
SIGNAL SERVICE, U.S. ARMY.

DIVISION OF TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

Washington, D. C., Monday, November 22, 1880.---3 P. M.

ALL OBSERVATIONS MADE AT THE SAME MOMENT OF ACTUAL (NOT LOCAL) TIME

The preparation of Charts of this Series commenced Nov. 8, 1870.



The following table shows the change in the barometer in past eight hours, with the thermometer in last twenty-four hours, per cent of the humidity of the atmosphere at the time of observation, and amount of rainfall in past eight hours.

STATIONS.	BAROMETER.	TEMP.	HUMIDITY.	RAIN FALL.
Albany	-.2	+	100	.00
Albany	-.5	+	85	.00
Albany	-.8	+	75	.00
Albany	-1.1	+	65	.00
Albany	-1.4	+	55	.00
Albany	-1.7	+	45	.00
Albany	-2.0	+	35	.00
Albany	-2.3	+	25	.00
Albany	-2.6	+	15	.00
Albany	-2.9	+	5	.00
Albany	-3.2	+	0	.00
Albany	-3.5	+	0	.00
Albany	-3.8	+	0	.00
Albany	-4.1	+	0	.00
Albany	-4.4	+	0	.00
Albany	-4.7	+	0	.00
Albany	-5.0	+	0	.00
Albany	-5.3	+	0	.00
Albany	-5.6	+	0	.00
Albany	-5.9	+	0	.00
Albany	-6.2	+	0	.00
Albany	-6.5	+	0	.00
Albany	-6.8	+	0	.00
Albany	-7.1	+	0	.00
Albany	-7.4	+	0	.00
Albany	-7.7	+	0	.00
Albany	-8.0	+	0	.00
Albany	-8.3	+	0	.00
Albany	-8.6	+	0	.00
Albany	-8.9	+	0	.00
Albany	-9.2	+	0	.00
Albany	-9.5	+	0	.00
Albany	-9.8	+	0	.00
Albany	-10.1	+	0	.00
Albany	-10.4	+	0	.00
Albany	-10.7	+	0	.00
Albany	-11.0	+	0	.00
Albany	-11.3	+	0	.00
Albany	-11.6	+	0	.00
Albany	-11.9	+	0	.00
Albany	-12.2	+	0	.00
Albany	-12.5	+	0	.00
Albany	-12.8	+	0	.00
Albany	-13.1	+	0	.00
Albany	-13.4	+	0	.00
Albany	-13.7	+	0	.00
Albany	-14.0	+	0	.00
Albany	-14.3	+	0	.00
Albany	-14.6	+	0	.00
Albany	-14.9	+	0	.00
Albany	-15.2	+	0	.00
Albany	-15.5	+	0	.00
Albany	-15.8	+	0	.00
Albany	-16.1	+	0	.00
Albany	-16.4	+	0	.00
Albany	-16.7	+	0	.00
Albany	-17.0	+	0	.00
Albany	-17.3	+	0	.00
Albany	-17.6	+	0	.00
Albany	-17.9	+	0	.00
Albany	-18.2	+	0	.00
Albany	-18.5	+	0	.00
Albany	-18.8	+	0	.00
Albany	-19.1	+	0	.00
Albany	-19.4	+	0	.00
Albany	-19.7	+	0	.00
Albany	-20.0	+	0	.00
Albany	-20.3	+	0	.00
Albany	-20.6	+	0	.00
Albany	-20.9	+	0	.00
Albany	-21.2	+	0	.00
Albany	-21.5	+	0	.00
Albany	-21.8	+	0	.00
Albany	-22.1	+	0	.00
Albany	-22.4	+	0	.00
Albany	-22.7	+	0	.00
Albany	-23.0	+	0	.00
Albany	-23.3	+	0	.00
Albany	-23.6	+	0	.00
Albany	-23.9	+	0	.00
Albany	-24.2	+	0	.00
Albany	-24.5	+	0	.00
Albany	-24.8	+	0	.00
Albany	-25.1	+	0	.00
Albany	-25.4	+	0	.00
Albany	-25.7	+	0	.00
Albany	-26.0	+	0	.00
Albany	-26.3	+	0	.00
Albany	-26.6	+	0	.00
Albany	-26.9	+	0	.00
Albany	-27.2	+	0	.00
Albany	-27.5	+	0	.00
Albany	-27.8	+	0	.00
Albany	-28.1	+	0	.00
Albany	-28.4	+	0	.00
Albany	-28.7	+	0	.00
Albany	-29.0	+	0	.00
Albany	-29.3	+	0	.00
Albany	-29.6	+	0	.00
Albany	-29.9	+	0	.00
Albany	-30.2	+	0	.00
Albany	-30.5	+	0	.00
Albany	-30.8	+	0	.00
Albany	-31.1	+	0	.00
Albany	-31.4	+	0	.00
Albany	-31.7	+	0	.00
Albany	-32.0	+	0	.00
Albany	-32.3	+	0	.00
Albany	-32.6	+	0	.00
Albany	-32.9	+	0	.00
Albany	-33.2	+	0	.00
Albany	-33.5	+	0	.00
Albany	-33.8	+	0	.00
Albany	-34.1	+	0	.00
Albany	-34.4	+	0	.00
Albany	-34.7	+	0	.00
Albany	-35.0	+	0	.00
Albany	-35.3	+	0	.00
Albany	-35.6	+	0	.00
Albany	-35.9	+	0	.00
Albany	-36.2	+	0	.00
Albany	-36.5	+	0	.00
Albany	-36.8	+	0	.00
Albany	-37.1	+	0	.00
Albany	-37.4	+	0	.00
Albany	-37.7	+	0	.00
Albany	-38.0	+	0	.00
Albany	-38.3	+	0	.00
Albany	-38.6	+	0	.00
Albany	-38.9	+	0	.00
Albany	-39.2	+	0	.00
Albany	-39.5	+	0	.00
Albany	-39.8	+	0	.00
Albany	-40.1	+	0	.00
Albany	-40.4	+	0	.00
Albany	-40.7	+	0	.00
Albany	-41.0	+	0	.00
Albany	-41.3	+	0	.00
Albany	-41.6	+	0	.00
Albany	-41.9	+	0	.00
Albany	-42.2	+	0	.00
Albany	-42.5	+	0	.00
Albany	-42.8	+	0	.00
Albany	-43.1	+	0	.00
Albany	-43.4	+	0	.00
Albany	-43.7	+	0	.00
Albany	-44.0	+	0	.00
Albany	-44.3	+	0	.00
Albany	-44.6	+	0	.00
Albany	-44.9	+	0	.00
Albany	-45.2	+	0	.00
Albany	-45.5	+	0	.00
Albany	-45.8	+	0	.00
Albany	-46.1	+	0	.00
Albany	-46.4	+	0	.00
Albany	-46.7	+	0	.00
Albany	-47.0	+	0	.00
Albany	-47.3	+	0	.00
Albany	-47.6	+	0	.00
Albany	-47.9	+	0	.00
Albany	-48.2	+	0	.00
Albany	-48.5	+	0	.00
Albany	-48.8	+	0	.00
Albany	-49.1	+	0	.00
Albany	-49.4	+	0	.00
Albany	-49.7	+	0	.00
Albany	-50.0	+	0	.00

SYNOPSIS FOR THE PAST TWENTY-FOUR HOURS.

The area of high barometer continues stationary in the Ohio valley. The pressure is above the normal throughout the United States. The temperature has fallen decidedly on the Atlantic coast and in the Gulf States and risen decidedly in the Upper Lake region and the Northwest. Westerly winds continue in New England, the Middle Atlantic States and the Lake region; northerly winds in the South Atlantic and Gulf States. Clear or partly cloudy weather generally prevails.

The Mississippi river is gauged at Dittmore and Davenport.

The rivers continue slowly falling.

INDICATIONS.

For New England, rising followed by stationary or lower barometer, falling followed by rising temperature, westerly or westerly winds, clear or partly cloudy weather.

For the Middle Atlantic States, stationary or lower barometer, falling followed by rising temperature, westerly winds becoming variable, clear or mostly cloudy weather.

For the South Atlantic States, stationary or higher barometer, rising temperature, north to east winds, partly cloudy or cloudy weather, with occasional rain.

For the East Gulf States, stationary or higher barometer, nearly stationary temperature, north to east winds, partly cloudy weather.

For the West Gulf States, stationary or rising followed by falling barometer, stationary or higher temperature, northerly steering to easterly winds, clear or partly cloudy weather.

For the Ohio valley and Tennessee, stationary or lower barometer, higher temperature, variable winds, clear or partly cloudy weather.

For the Upper Lake region, stationary or rising followed by falling barometer, westerly winds, partly cloudy weather, higher temperature.

For the Upper Mississippi and Lower Missouri valleys, stationary or rising followed by falling barometer, higher temperature, south to west winds, clear or partly cloudy weather. The temperature in the Great regions will remain below the freezing point during December.

The temperature continues slowly falling.

Stationary Signals continue at Macon, Cape Lookout, Cape Hatteras and Hatteras.

Note.—An asterisk on stations marked with an asterisk were missing when the above indications were made up.

REFERENCES

- CLEAR
 - ☉ FAIR
 - ☁ RAIN
 - ☁ CLOUDY
 - ☁ SNOW
 - ☁ Arrow flies with the wind.
- Black at base of Arrow (thrust) shows that the Gunnery Signal is hoisted at that station.
- Broken or dotted lines indicate that the lines so broken are doubtful.
- First figures show state of Thermometer.
- Middle four figures show state of barometer.
- Last figures show velocity of wind in miles per hour.
- Direction of Arrow indicates wind.
- The figures in circles show the average elevation of the locations on which they are placed.
- White surfaces average over 1000 feet above sea level.
- Dark Brown shaded surfaces average over 500 feet above sea level.
- Light Brown shaded surfaces average under 500 feet above sea level.
- Authorities.
- Professor Guyot's Orographic Map, U.S. Coast Survey Charts and Records of the Office of the Chief Signal Officer of the U.S. Army.
- Scale of Statute Miles.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR

A. S. Dennis
Adjutant General, and
Acting Chief Signal Officer of the Army

WAR DEPARTMENT WEATHER MAP.

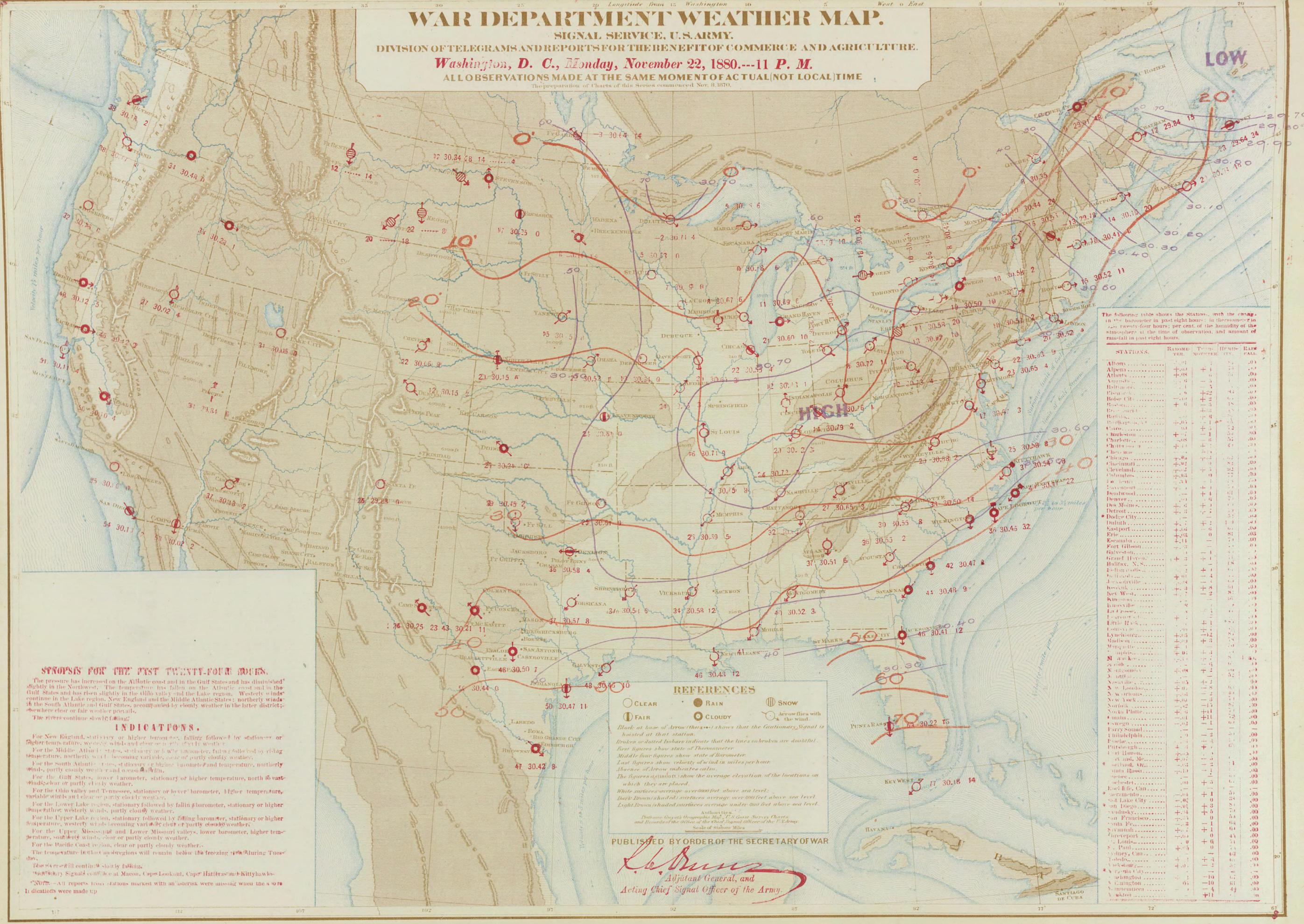
SIGNAL SERVICE, U.S. ARMY.

DIVISION OF TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

Washington, D. C., Monday, November 22, 1880.---11 P. M.

ALL OBSERVATIONS MADE AT THE SAME MOMENT OF ACTUAL (NOT LOCAL) TIME

The preparation of Charts of this series commenced Nov. 9, 1870.



The following table shows the Stations, with the change in the barometer in past eight hours; in the temperature in the twenty-four hours; per cent of the humidity of the atmosphere at the time of observation; and amount of rain-fall in past eight hours.

STATIONS.	BAROMETER.	TEMPERATURE.	HUMIDITY.	RAIN-FALL.
Albany	+0.1	2	70	0.0
Alpena	+0.3	1	75	0.0
Atlanta	+0.8	5	70	0.0
Augusta	-0.6	3	70	0.0
Baltimore	+0.4	2	70	0.0
Boston	+0.6	+22	74	0.0
Buffalo	+0.1	1	70	0.0
Chicago	+0.6	+5	78	0.0
Cincinnati	+0.3	1	70	0.0
Cleveland	+0.3	1	70	0.0
Columbus	+0.3	1	70	0.0
Dallas	+0.3	1	70	0.0
Dayton	+0.3	1	70	0.0
Des Moines	+0.3	1	70	0.0
Detroit	+0.3	1	70	0.0
Indianapolis	+0.3	1	70	0.0
Keokuk	+0.3	1	70	0.0
London	+0.3	1	70	0.0
Madison	+0.3	1	70	0.0
Memphis	+0.3	1	70	0.0
Minneapolis	+0.3	1	70	0.0
Mobile	+0.3	1	70	0.0
Montgomery	+0.3	1	70	0.0
New Orleans	+0.3	1	70	0.0
New York	+0.3	1	70	0.0
Philadelphia	+0.3	1	70	0.0
Pittsburgh	+0.3	1	70	0.0
Portland	+0.3	1	70	0.0
Rochester	+0.3	1	70	0.0
St. Louis	+0.3	1	70	0.0
St. Paul	+0.3	1	70	0.0
St. Petersburg	+0.3	1	70	0.0
St. Vincent	+0.3	1	70	0.0
Texas	+0.3	1	70	0.0
Wichita	+0.3	1	70	0.0
Yonkers	+0.3	1	70	0.0

SYNOPSIS FOR THE NEXT TWENTY-FOUR HOURS.

The pressure has increased on the Atlantic coast and in the Gulf States and has diminished slightly in the Northwest. The temperature has fallen on the Atlantic coast and in the Gulf States and has risen slightly in the Ohio valley and the Lake region. Westerly winds continue in the Lake region, New England and the Middle Atlantic States; northerly winds in the South Atlantic and Gulf States, accompanied by cloudy weather in the latter district; elsewhere clear or fair weather prevails.

The rivers continue slowly falling.

INDICATIONS.

- For New England, stationary or higher barometer, falling followed by stationary or higher temperature, westerly winds and clear or partly cloudy weather.
- For the Middle Atlantic States, stationary or lower barometer, falling followed by rising temperature, northerly winds becoming variable, much or partly cloudy weather.
- For the South Atlantic States, stationary or higher barometer and temperature, northerly winds, partly cloudy weather and occasional rain.
- For the Gulf States, lower barometer, stationary or higher temperature, north or west winds, clear or partly cloudy weather.
- For the Ohio valley and Tennessee, stationary or lower barometer, higher temperature, variable winds and clear or partly cloudy weather.
- For the Lower Lake region, stationary followed by falling barometer, stationary or higher temperature, westerly winds, partly cloudy weather.
- For the Upper Lake region, stationary followed by falling barometer, stationary or higher temperature, westerly winds becoming variable, clear or partly cloudy weather.
- For the Upper Mississippi and Lower Missouri valleys, lower barometer, higher temperature, northerly winds, clear or partly cloudy weather.
- For the Pacific Coast region, clear or partly cloudy weather.
- The temperature in these regions will remain below the freezing point during Tuesday.
- The rivers will continue slowly falling.
- Stationary Signal can be seen at Macon, Cape Lookout, Cape Hatteras and Kittyhawk.
- Note.—All reports from stations marked with an asterisk were missing when the above indications were made up.

REFERENCES

- CLEAR
- RAIN
- ☁ CLOUDY
- ☉ SNOW
- ↗ Arrow flies with the wind

Blank at base of Arrow (thick) shows that the cautionary signal is hoisted at that station.

Broken or dotted bars show that the lines are broken.

Thin lines show state of thermometer.

Middle four figures show state of barometer.

Last figures show velocity of wind in miles per hour.

Absence of arrow indicates calm.

The figures in circles show the average elevation of the locations on which they are placed.

White surfaces average over 1000 feet above sea level.

Dark brown shaded surfaces average over 500 feet above sea level.

Light brown shaded surfaces average under 500 feet above sea level.

Authorities.—
Bureau of Geographical Names, U.S. Coast and Geodetic Survey Charts, and the Office of the Chief Signal Officer of the Army.

Scale of Statute Miles

PUBLISHED BY ORDER OF THE SECRETARY OF WAR

L. B. Russ
Adjutant General, and
Acting Chief Signal Officer of the Army.