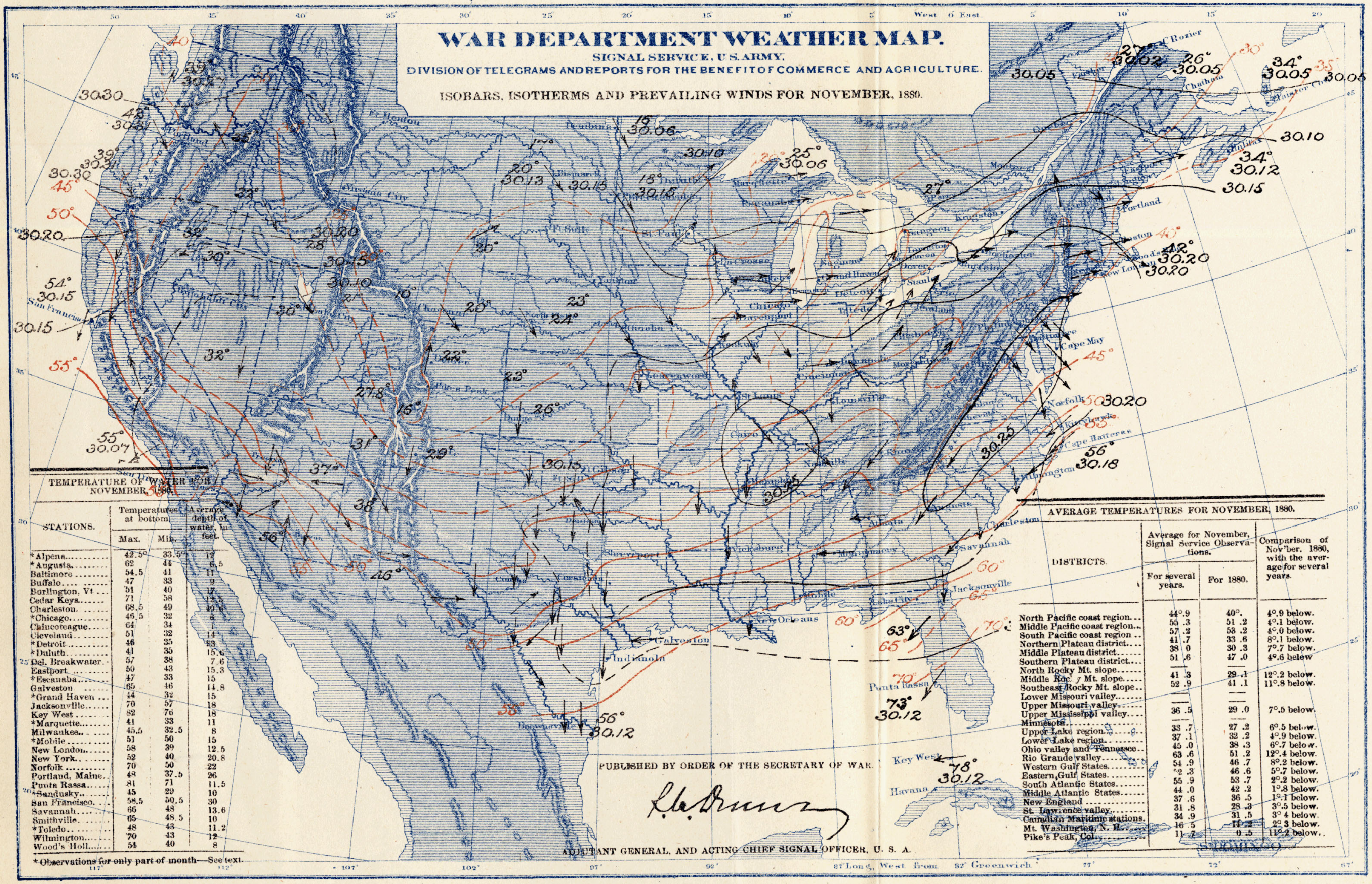
No. 11.

WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U. S. ARMY.

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

ISOBARS, ISOTHERMS AND PREVAILING WINDS FOR NOVEMBER, 1880.



TEMPERATURE OF WATER FOR NOVEMBER, 1880.

STATIONS.	Temperatures at bottom. Max.	Temperatures at bottom. Min.	Average depth of water, in feet.
*Alpena	42.5°	33.5°	12
*Augusta	62	44	6.5
Baltimore	54.5	41	11
Buffalo	47	33	9
Burlington, Vt	51	40	17
Cedar Keys	71	58	12.5
Charleston	68.5	49	40.6
*Chicago	46.5	32	8
Chincoteague	64	34	1
Cleveland	51	32	14
*Detroit	46	35	23
*Duluth	41	35	15.6
Del. Breakwater	57	38	7.6
Eastport	50	43	15.3
*Escanaba	47	33	15
Galveston	65	46	14.8
*Grand Haven	44	32	15
Jacksonville	70	57	18
Key West	82	76	18
*Marquette	41	33	11
Milwaukee	45.5	32.5	8
*Mobile	51	50	15
New London	58	39	12.5
New York	52	40	20.8
Norfolk	70	50	22
Portland, Maine	48	37.5	26
Punta Rassa	81	71	11.5
*Sandusky	45	29	10
San Francisco	58.5	50.5	30
Savannah	66	48	13.6
Smithville	65	48.5	10
*Toledo	48	43	11.2
Wilmington	70	43	12
Wood's Holl	54	40	8

* Observations for only part of month—See text.

AVERAGE TEMPERATURES FOR NOVEMBER, 1880.

DISTRICTS.	Average for November, Signal Service Observations. For several years.	Average for November, Signal Service Observations. For 1880.	Comparison of Nov'ber. 1880, with the average for several years.
North Pacific coast region	44°.9	40°.	4°.9 below.
Middle Pacific coast region	55 .3	51 .2	4°.1 below.
South Pacific coast region	57 .2	53 .2	4°.0 below.
Northern Plateau district	41 .7	33 .6	8°.1 below.
Middle Plateau district	38 .0	30 .3	7°.7 below.
Southern Plateau district	51 .6	47 .0	4°.6 below
North Rocky Mt. slope	—	—	
Middle Rocky Mt. slope	41 .3	29 .1	12°.2 below.
Southeast Rocky Mt. slope	52 .9	41 .1	11°.8 below.
Lower Missouri valley	—	—	
Upper Missouri valley	—	—	
Upper Mississippi valley	36 .5	29 .0	7°.5 below.
Minnesota	—	—	
Upper Lake region	33 .7	27 .2	6°.5 below.
Lower Lake region	37 .1	32 .2	4°.9 below.
Ohio valley and Tennessee	45 .0	38 .3	6°.7 below.
Rio Grande valley	63 .6	51 .2	12°.4 below.
Western Gulf States	54 .9	46 .7	8°.2 below.
Eastern Gulf States	52 .3	46 .6	5°.7 below.
South Atlantic States	55 .9	53 .7	2°.2 below.
Middle Atlantic States	44 .0	42 .2	1°.8 below.
New England	37 .6	36 .5	1°.1 below.
St. Lawrence valley	31 .8	28 .3	3°.5 below.
Canadian Maritime stations	34 .9	31 .5	3°.4 below.
Mt. Washington, N. H.	16 .5	14 .2	2°.3 below.
Pike's Peak, Col.	11 .7	0 .5	11°.2 below.

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[signature]

ADJUTANT GENERAL, AND ACTING CHIEF SIGNAL OFFICER, U. S. A.