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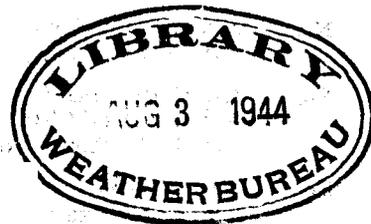
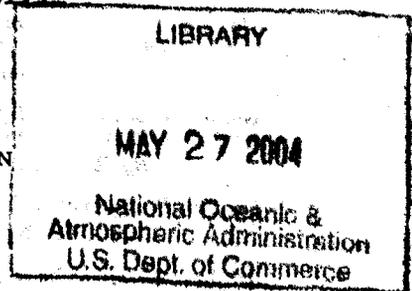
JESSE H. JONES, Secretary

WEATHER BUREAU

FRANCIS W. REICHELDERFER, Chief

NORMAL MEAN VIRTUAL TEMPERATURES  
AND  
WEIGHTS OF THE AIR COLUMN BETWEEN  
SEA LEVEL AND 10,000 FEET

*Prepared by*  
Staff, EXTENDED FORECAST SECTION



RESEARCH PAPER NO. 18

WASHINGTON  
July 1944

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**National Oceanic and Atmospheric Administration  
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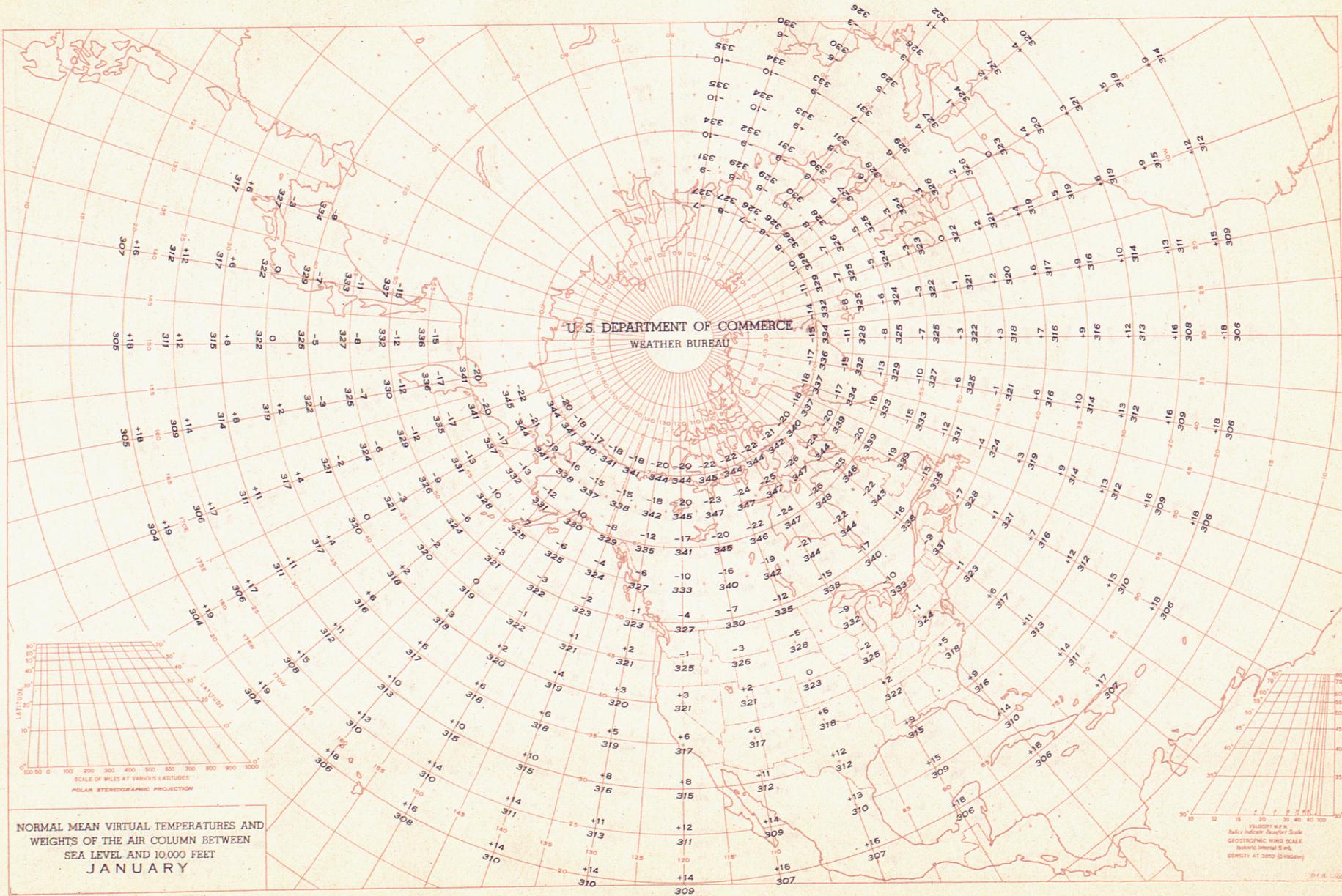
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| No. 18        | <i>Normal Mean Virtual Temperatures and Weights of the Air Column Between Sea Level and 10,000 feet.</i><br>By Staff, EXTENDED FORECAST SECTION, July 1944.                                |
| No. 19        | <i>Temperature Changes During Formation and Dissipation of West Coast Stratus.</i><br>By MORRIS NEIBURGER (University of California at Los Angeles), July 1944.                            |

NORMAL MEAN VIRTUAL TEMPERATURES AND WEIGHTS OF  
THE AIR COLUMN BETWEEN SEA LEVEL AND 10,000 FEET

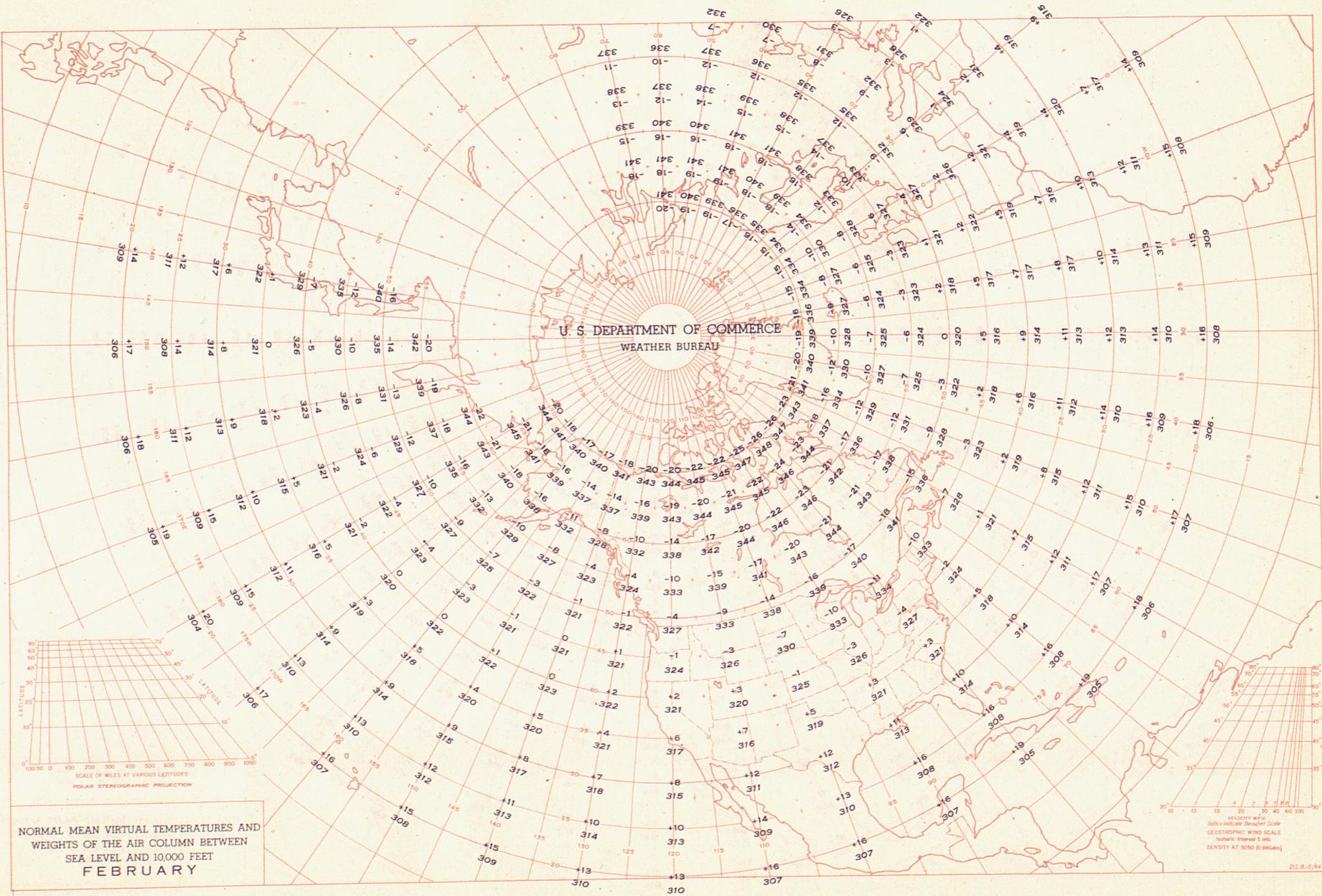
*Prepared by*  
Staff, EXTENDED FORECAST SECTION

The values of mean virtual temperature of the layer between sea level and 10,000 feet are expressed in degrees Centigrade (upper figures), and the weights of this layer are expressed as differences of pressure in millibars (lower figures).

These values were computed on the basis of the monthly maps of "Normal Distribution of Pressure at the 10,000-Foot Level Over the Northern Hemisphere" by Jerome Namias and Kenneth Smith, Extended Forecast Section, U. S. Weather Bureau (June 1944) and the monthly normal sea-level charts published by Sir Napier Shaw (Manual of Meteorology, Vol. II, Cambridge University Press, 1936).



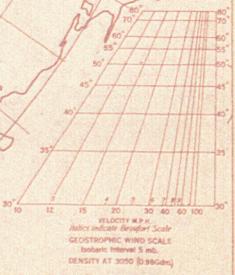
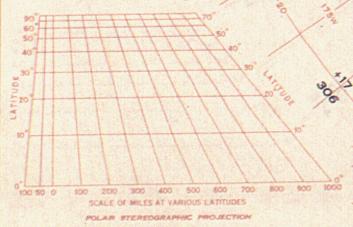
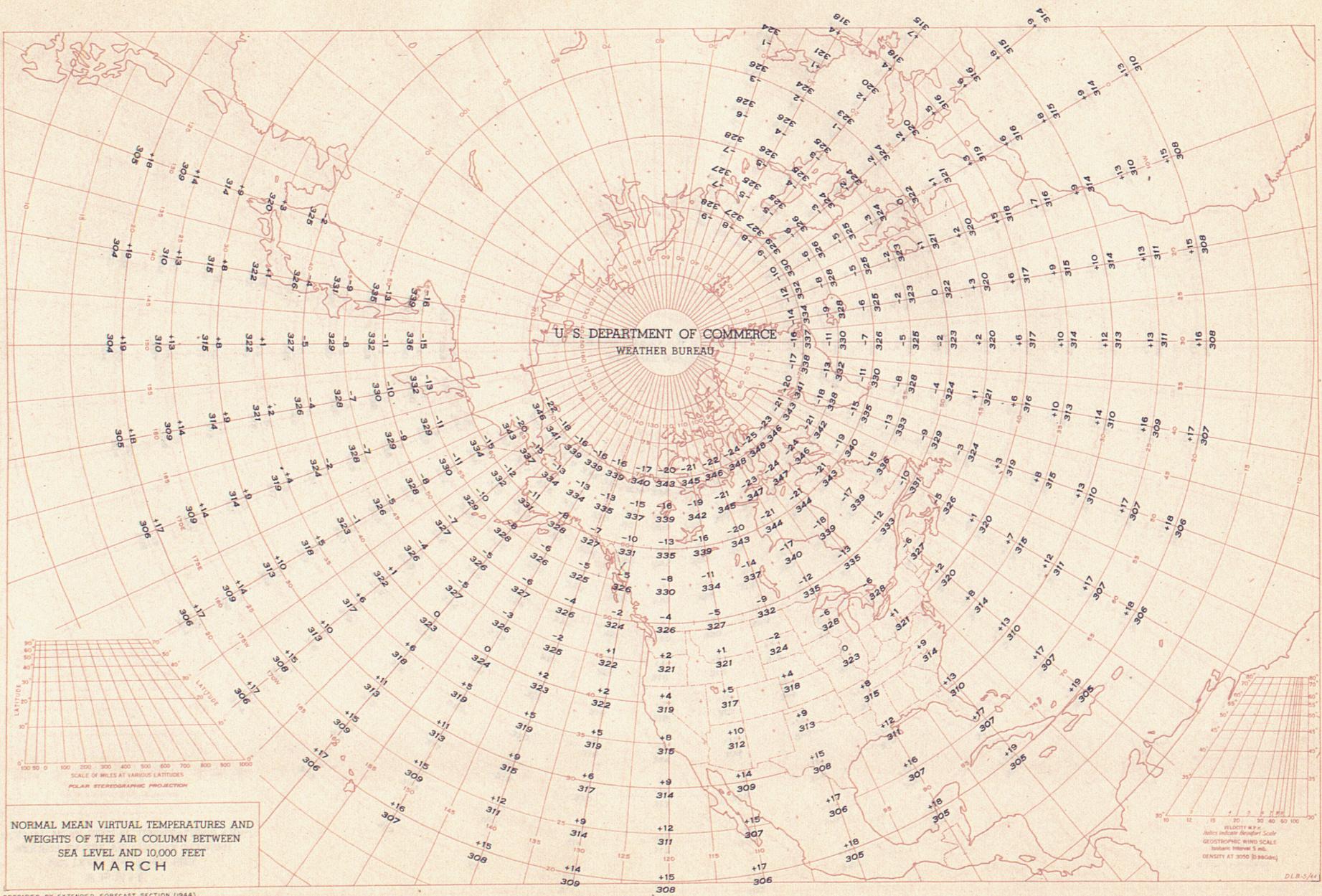
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WEATHER BUREAU



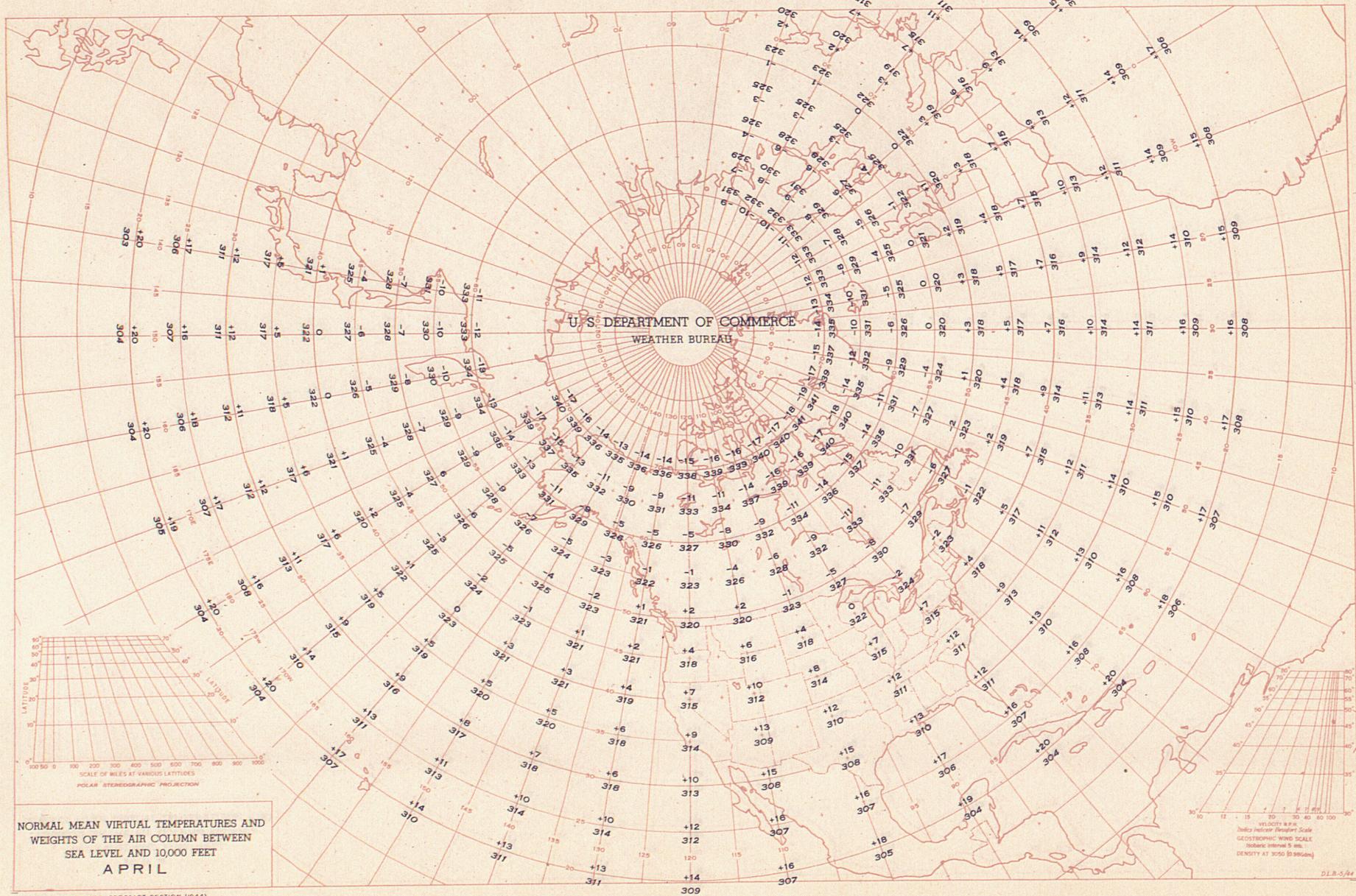
NORMAL MEAN VIRTUAL TEMPERATURES AND  
WEIGHTS OF THE AIR COLUMN BETWEEN  
SEA LEVEL AND 10,000 FEET  
FEBRUARY

VELOCITY in ft.  
Miles indicate Standard Scale  
GEOGRAPHIC MILES SCALE  
Isobaric Interval 5 mb.  
DENSITY AT 3050 (0.9864)

U.S. DEPARTMENT OF COMMERCE  
WEATHER BUREAU

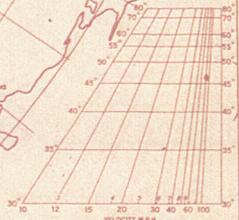
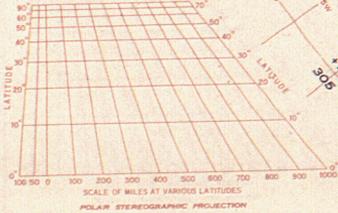
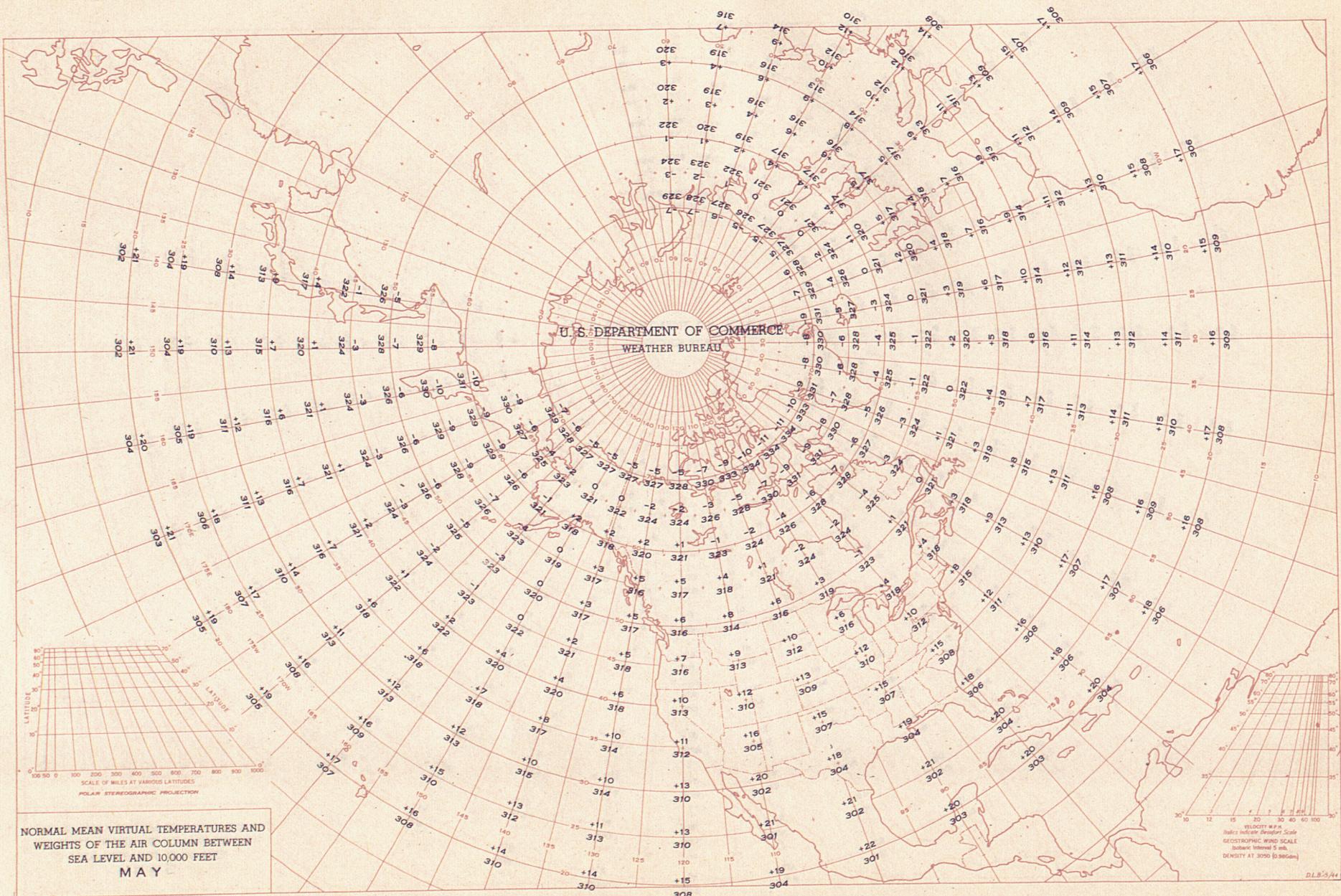


NORMAL MEAN VIRTUAL TEMPERATURES AND  
WEIGHTS OF THE AIR COLUMN BETWEEN  
SEA LEVEL AND 10,000 FEET  
MARCH



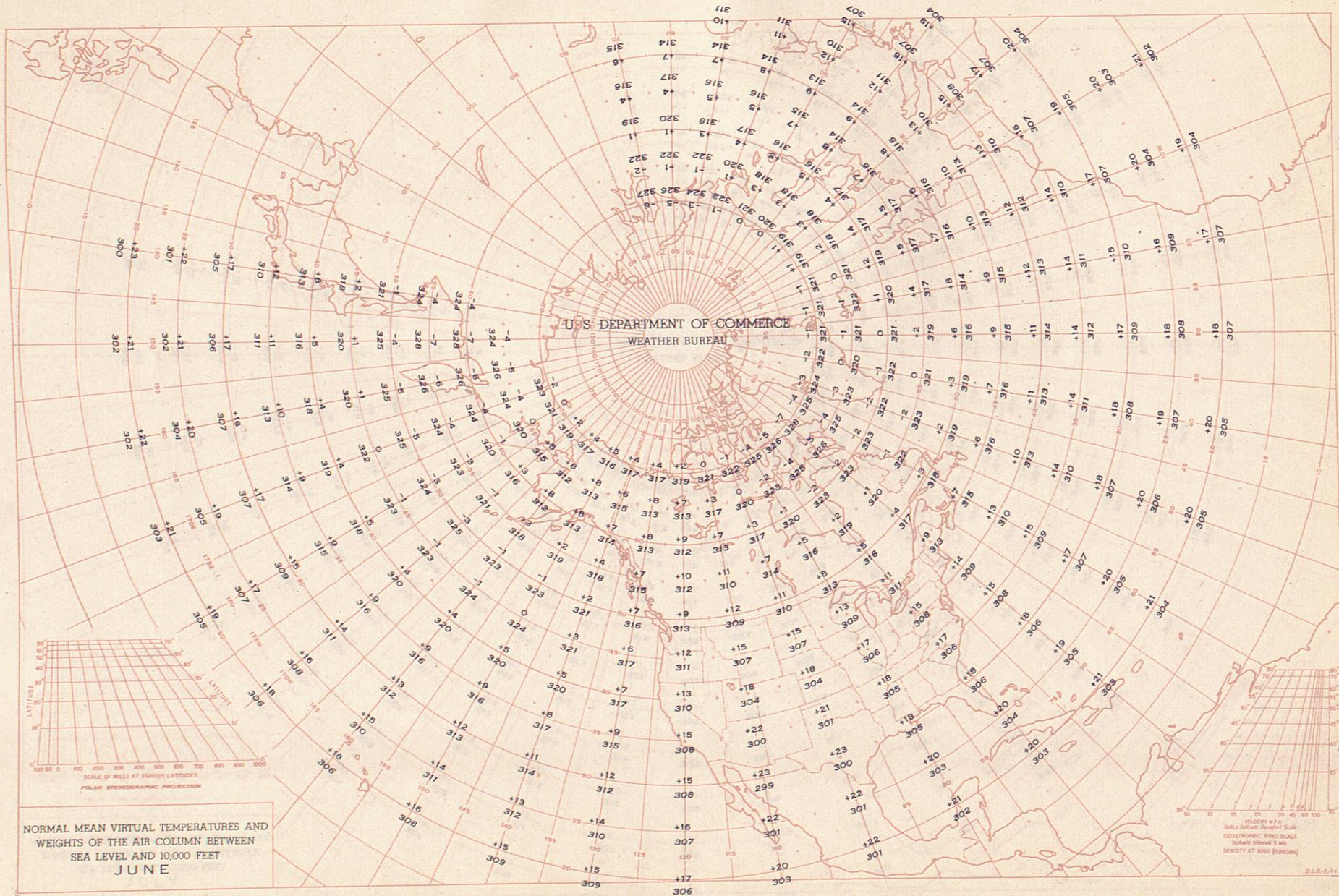
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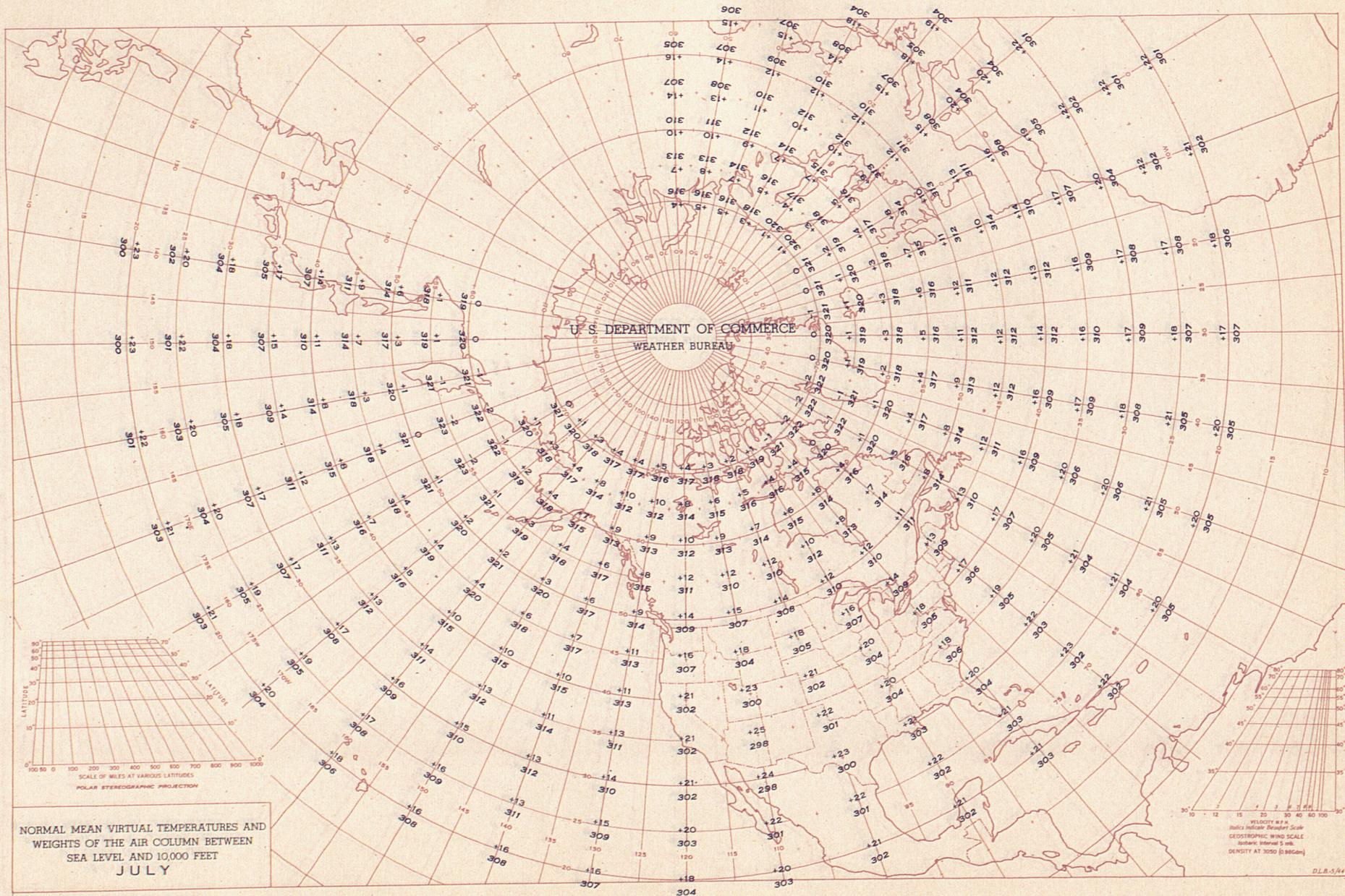
NORMAL MEAN VIRTUAL TEMPERATURES AND  
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SEA LEVEL AND 10,000 FEET  
MAY

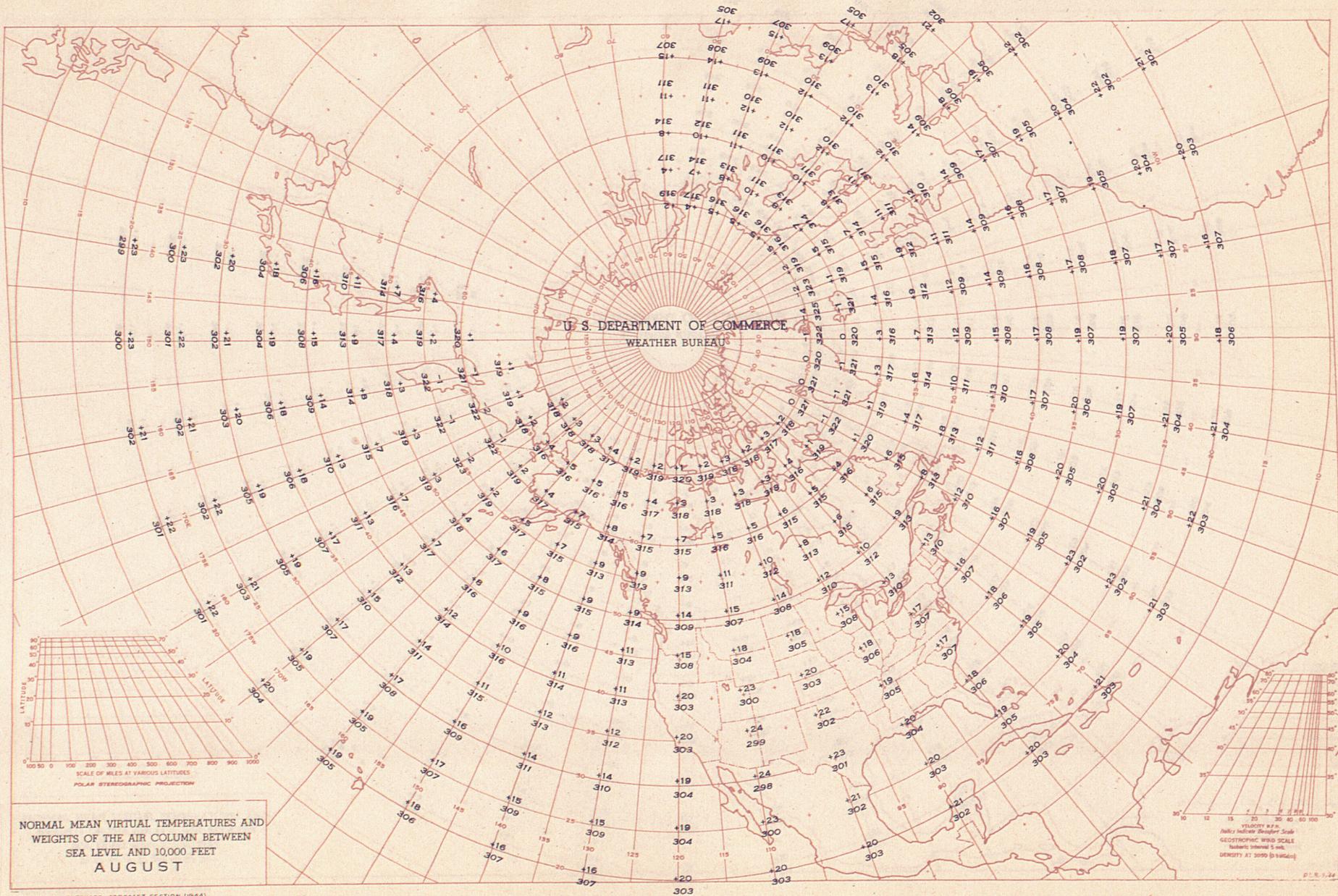
Velocity in ft/sec  
GEOSTROPHIC WIND SCALE  
Surface Interval 5 mi.  
DENSITY AT 3050 (3865m)

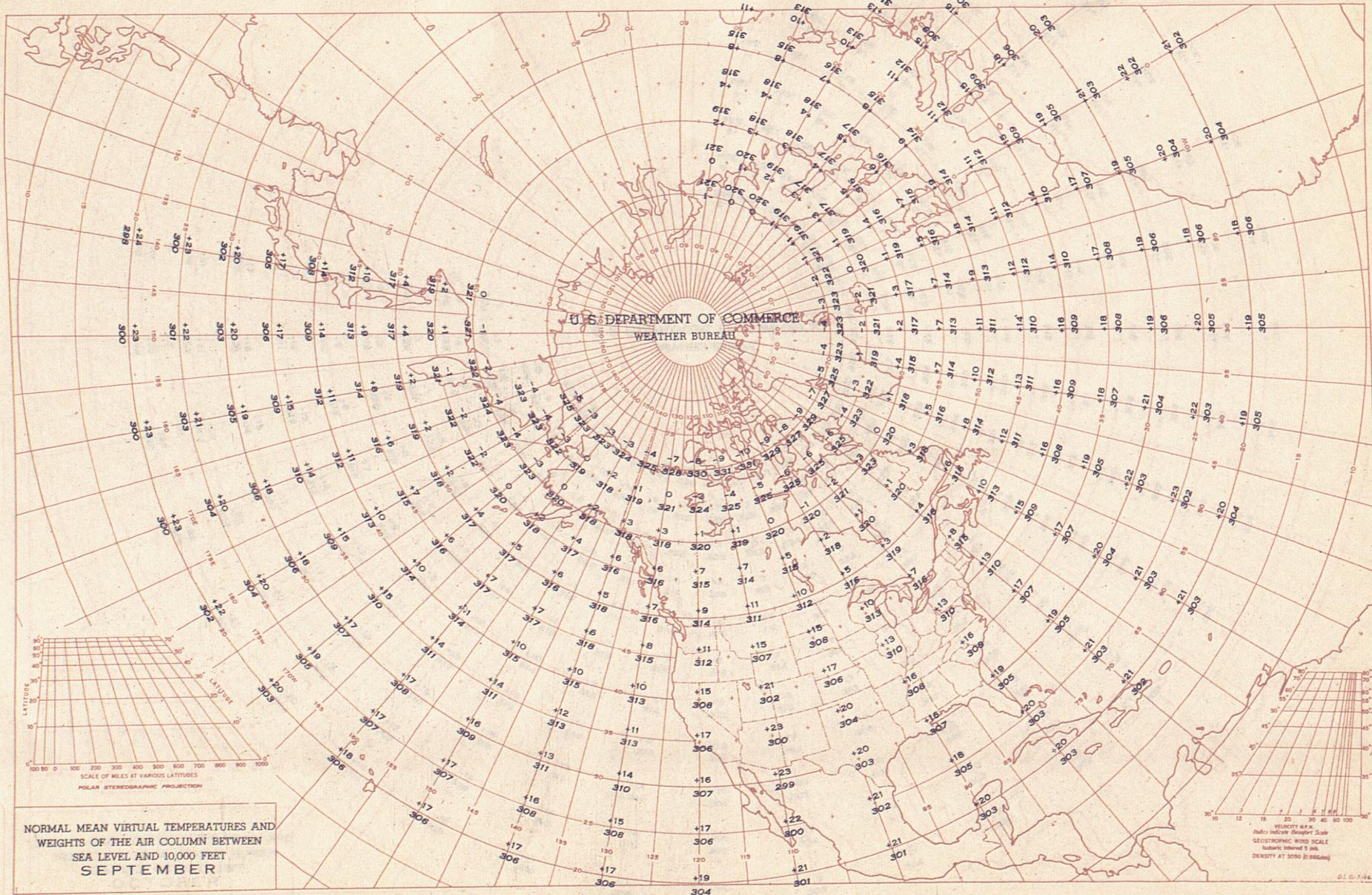


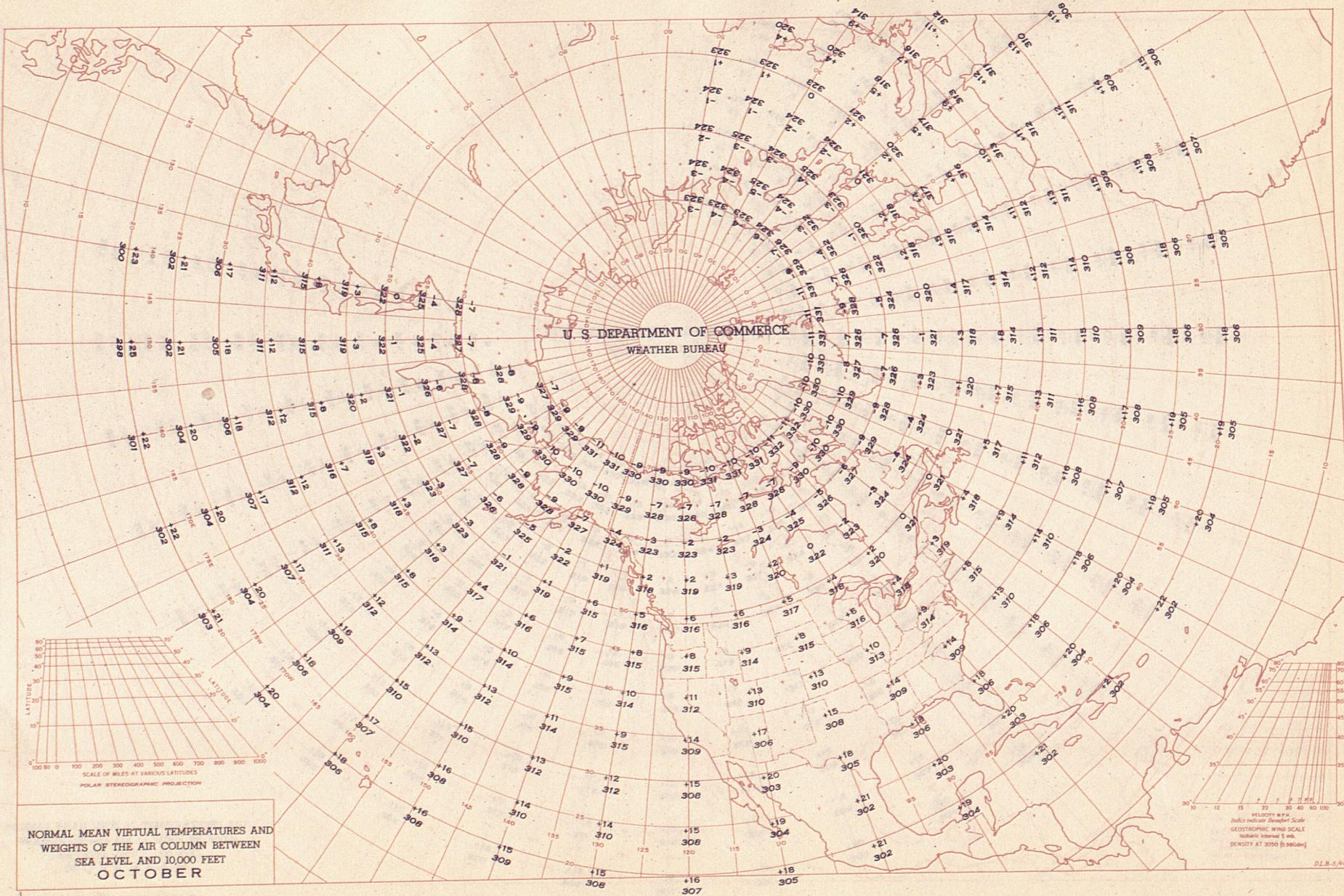
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WEIGHTS OF THE AIR COLUMN BETWEEN  
SEA LEVEL AND 10,000 FEET  
JUNE

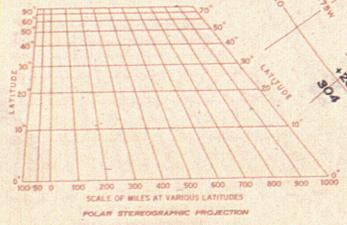
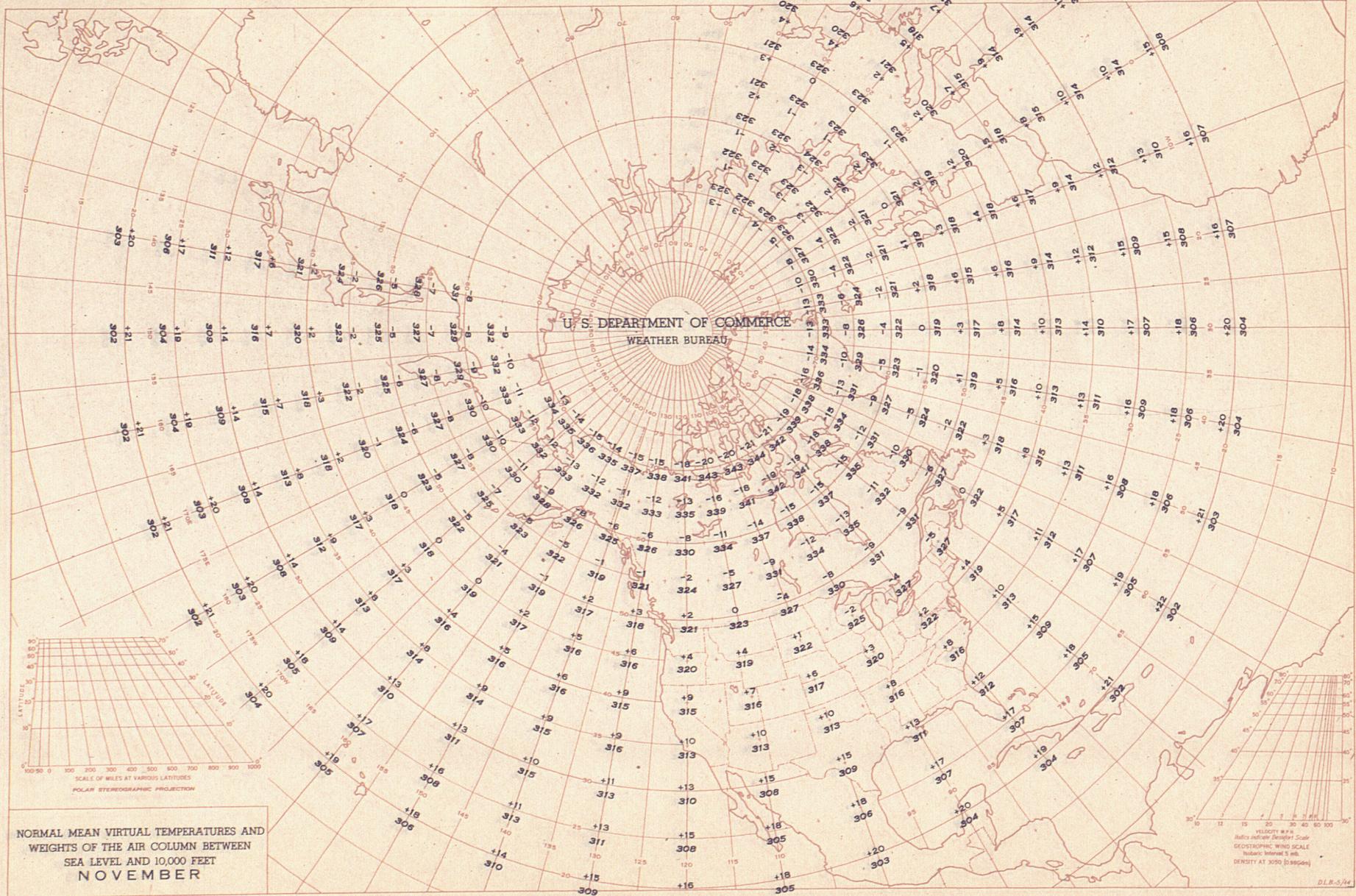
VELOCITY IN F  
METRIC MEASURE (KILOMETER SCALE)  
GEOSTROPHIC WIND SCALE  
DENSITY AT 1000 (G/CC)



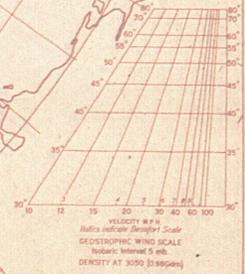




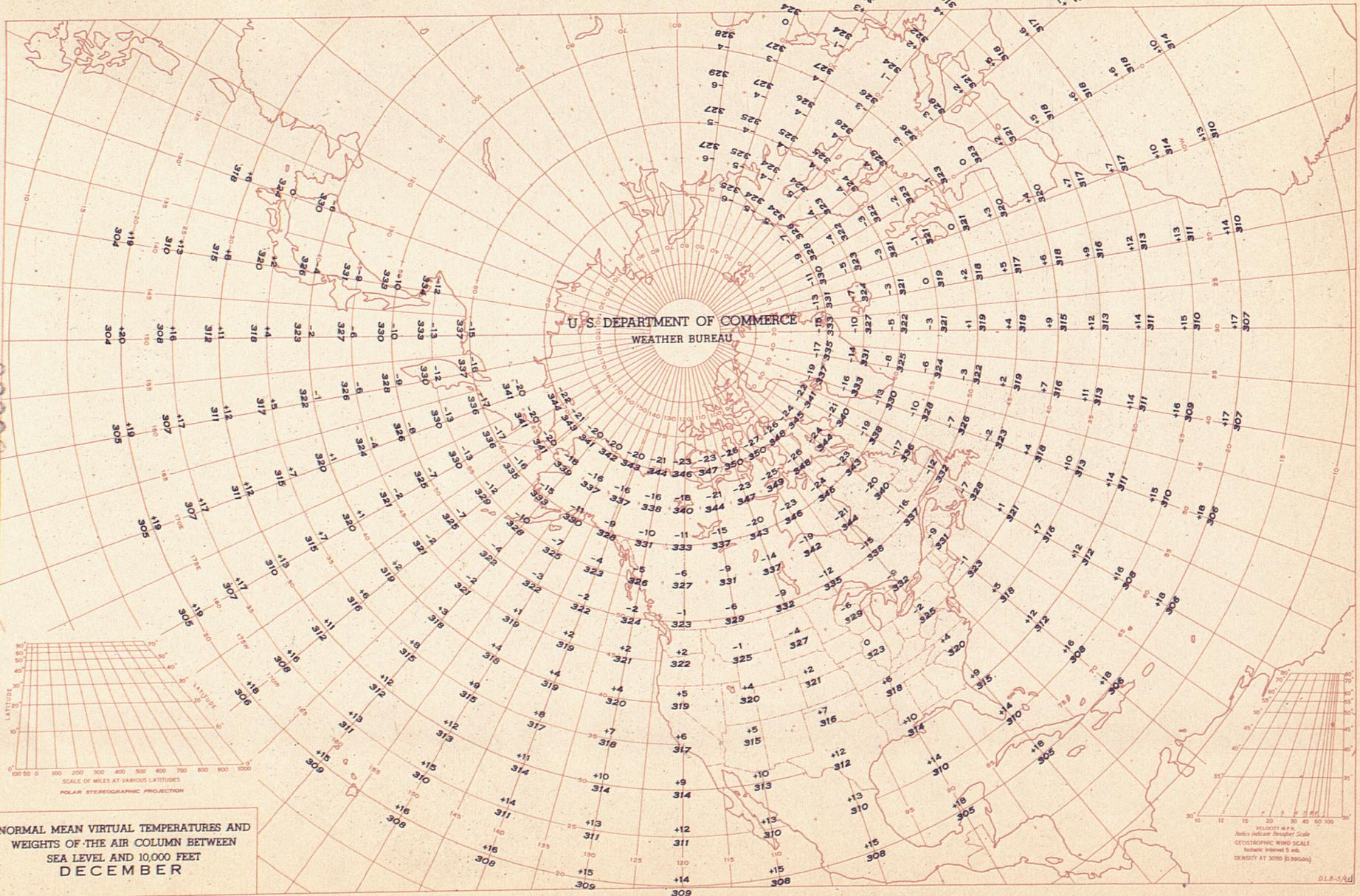




NORMAL MEAN VIRTUAL TEMPERATURES AND  
WEIGHTS OF THE AIR COLUMN BETWEEN  
SEA LEVEL AND 10,000 FEET  
NOVEMBER



66309



U.S. DEPARTMENT OF COMMERCE  
WEATHER BUREAU

NORMAL MEAN VIRTUAL TEMPERATURES AND WEIGHTS OF THE AIR COLUMN BETWEEN SEA LEVEL AND 10,000 FEET  
DECEMBER

PREPARED BY EXTENDED FORECAST SECTION (1944)

VELOCITY IN F.P.  
Ranks indicate Beaufort Scale  
GEOSTROPHIC WIND SCALE  
Isobaric Interval 5 mb.  
DENSITY AT 3000 (in g/cm<sup>3</sup>)