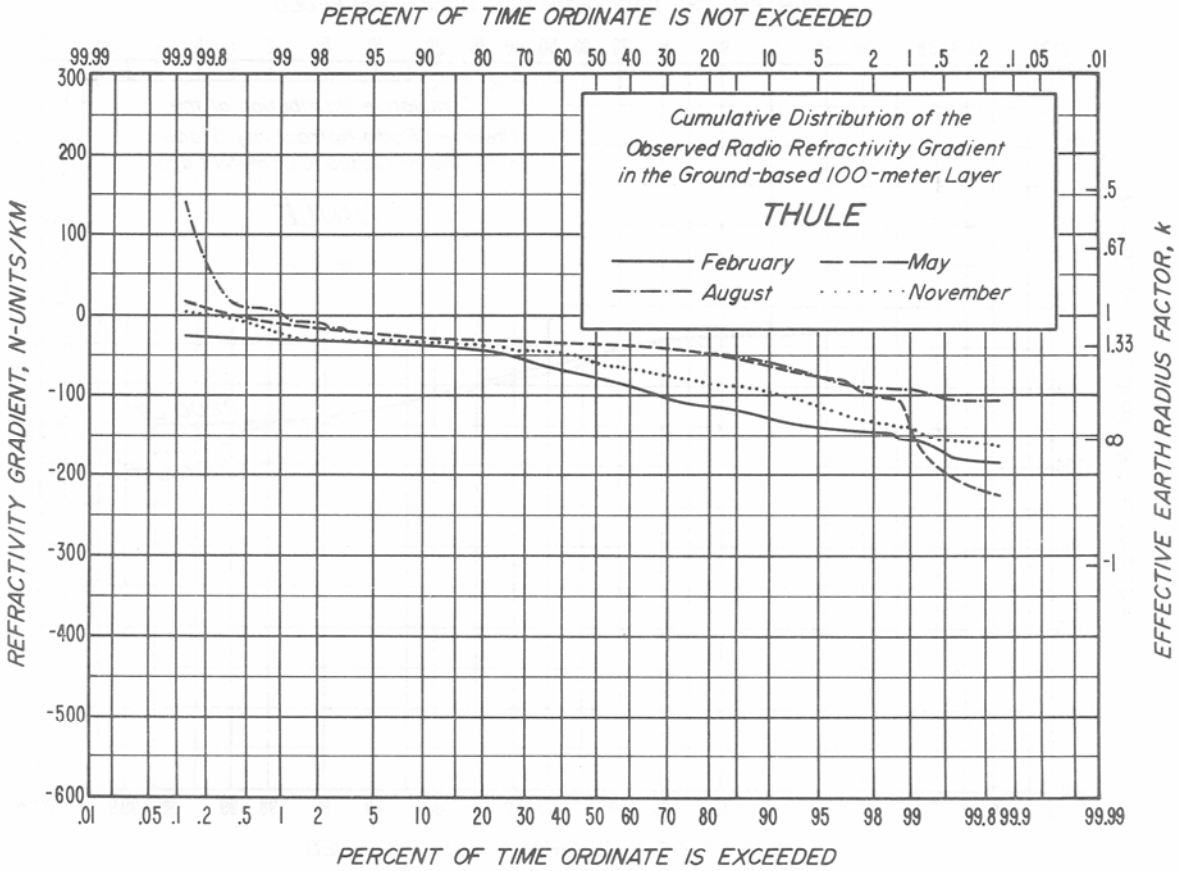


Thule, Greenland

76° 31' N, 68° 44' W 76 m m.s.l.

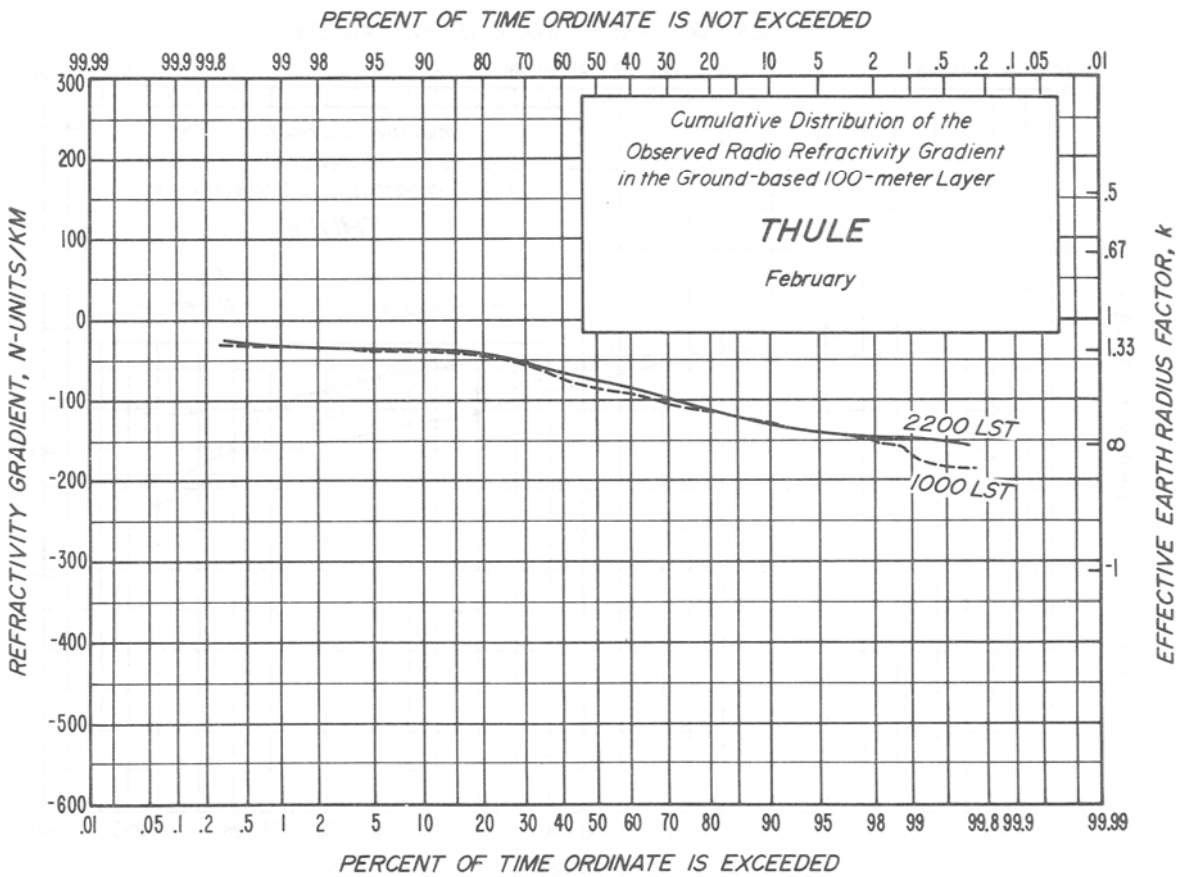
Data: Radiosonde. 0300 and 1500Z (2200 and 1000 LST): 1/51 - 12/53
0200 and 1400Z (2100 and 0900 LST): 1/54 - 5/57

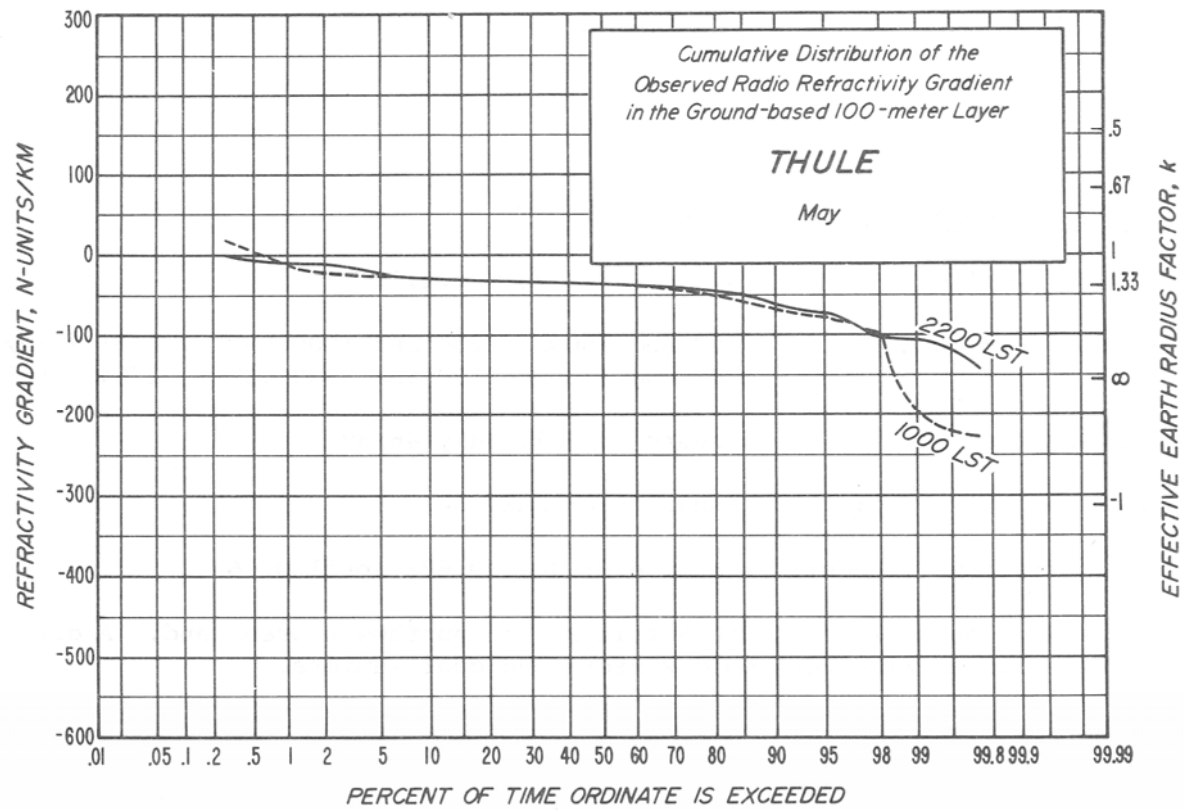
Temperature (°F): January -4/-17; July 46/38

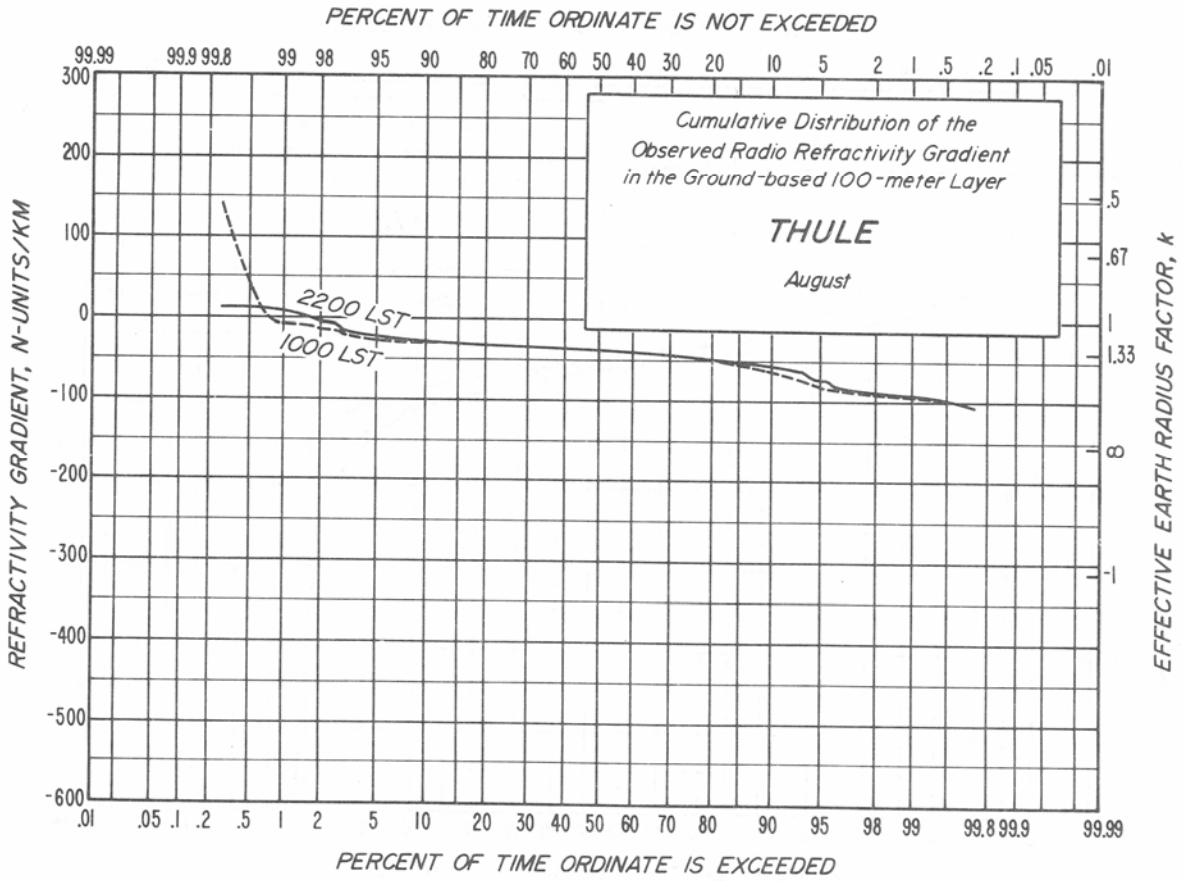
Mean Dewpoint (°F): January -20; July 34

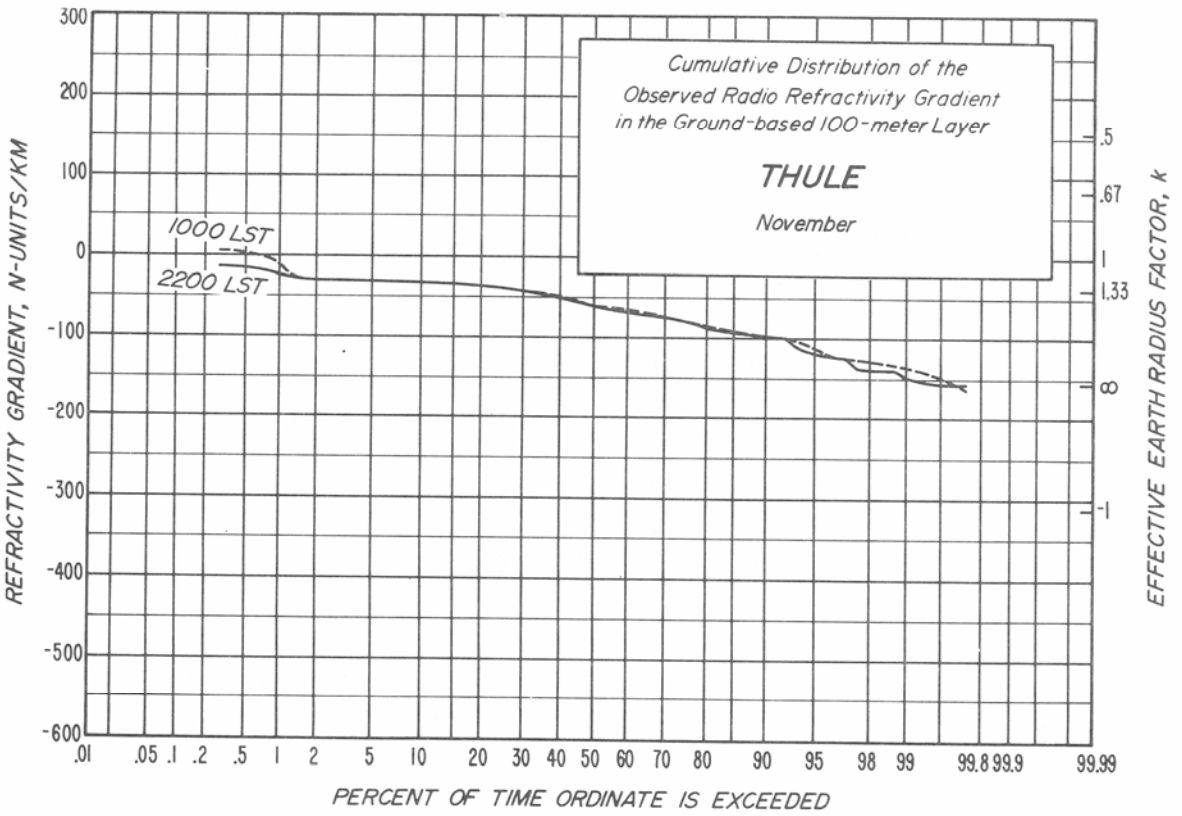
Precipitation (inches): Annual 4.8; July 0.67; April 0.16

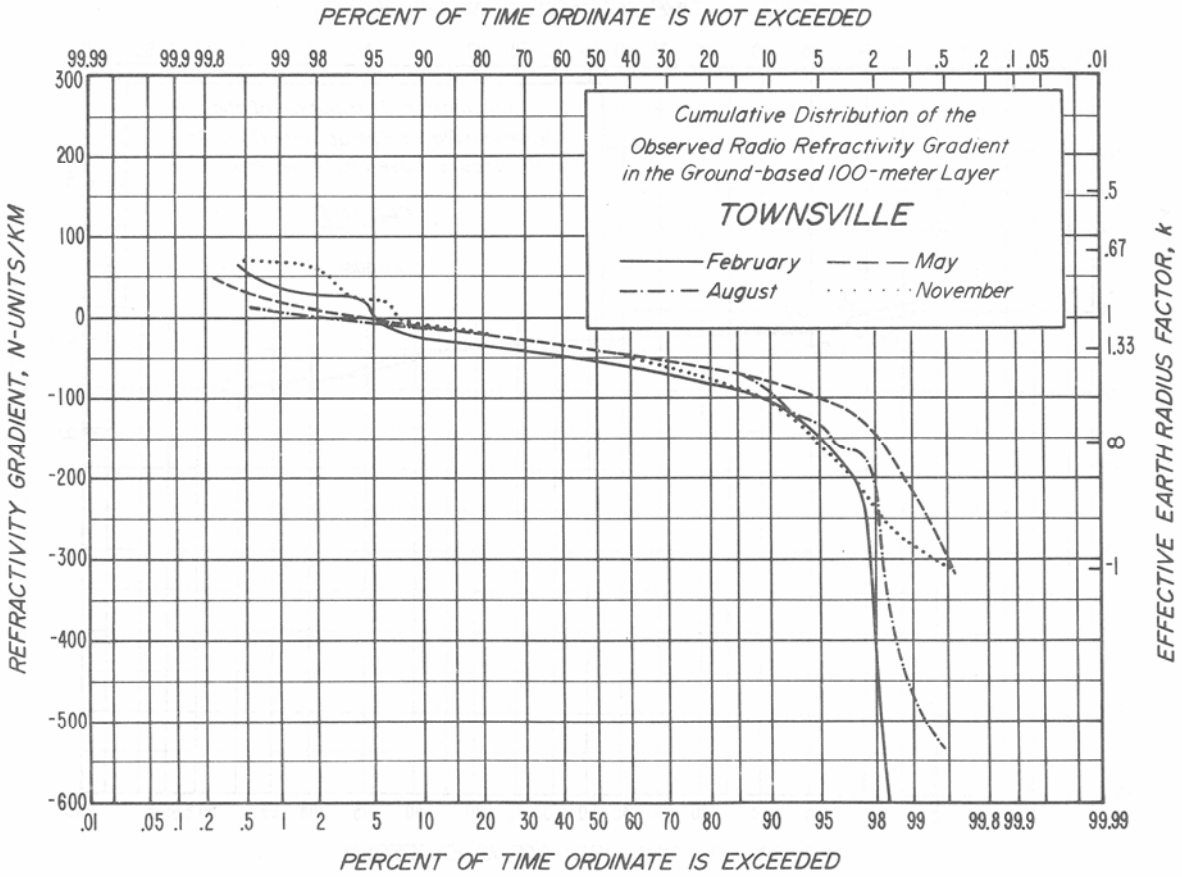
Located on an inlet of North Baffin Bay in northwest Greenland. A dry Arctic climate with very cold winters and cool summers.


PERCENT OF TIME ORDINATE IS NOT EXCEEDED
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 .5 .2 .1 .05 .01
Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
THULE
February
2200 LST
1000 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED


Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
THULE
May
2200 LST
1000 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED


PERCENT OF TIME ORDINATE IS NOT EXCEEDED
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 .5 .2 .1 .05 .01
Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
THULE
August
2200 LST
1000 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED


Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
THULE
November
1000 LST
2200 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED



Townsville, Australia

19° 16' S, 146° 45' E 4 m m.s.l.

Data: Radiosonde.

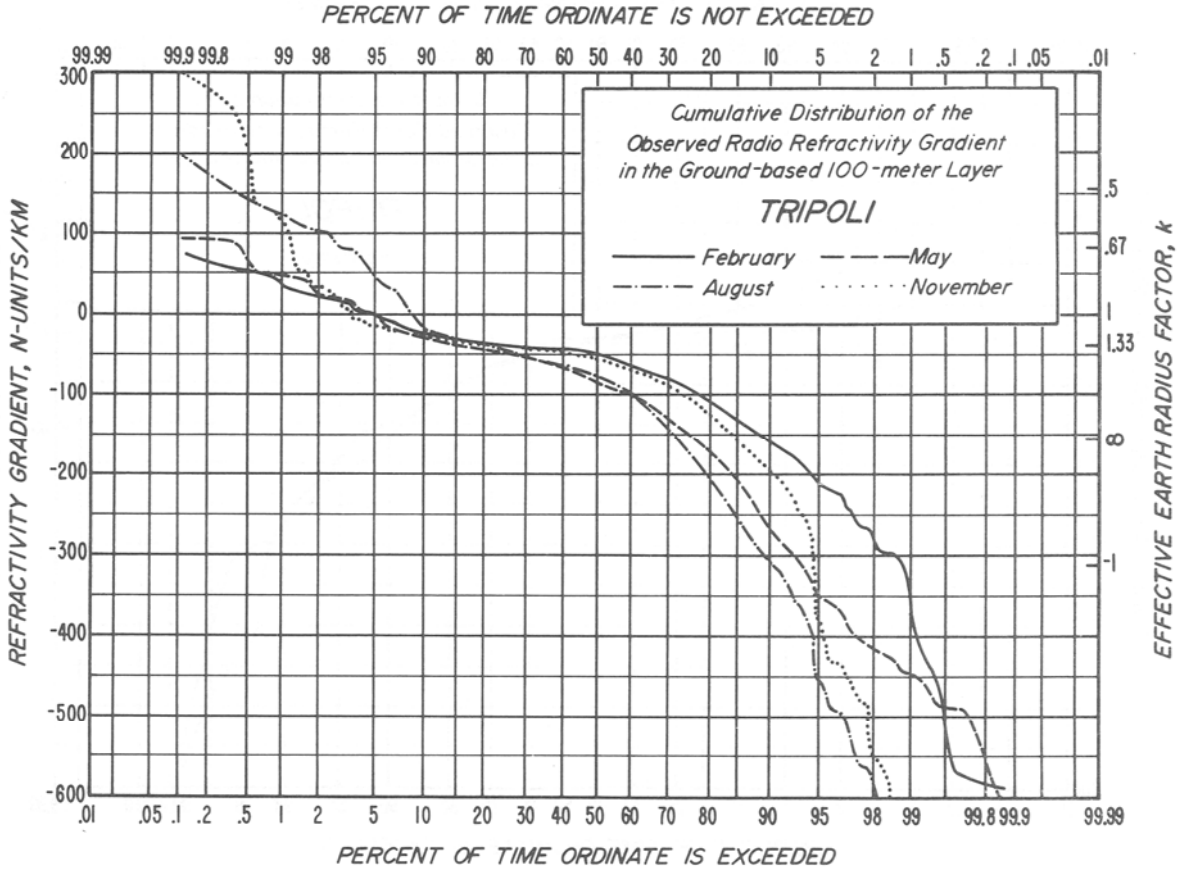
0800Z (1800 LST):	11/49 - 11/51
0700Z (1700 LST):	2/52 - 8/52
0400Z (1400 LST):	11/52 - 5/54

Temperature (°F): January 87/76; July 75/59

Mean Dewpoint (°F): January 73; July 57

Precipitation (inches): Annual 45.7; February 11.2; August 0.5

Located on Cleveland Bay in northeast Australia. A maritime subtropical climate with hot, humid, rainy summers and mild, dry winters.



Tripoli, Libya

32° 54' N, 13° 17' E 10 m m.s.l.

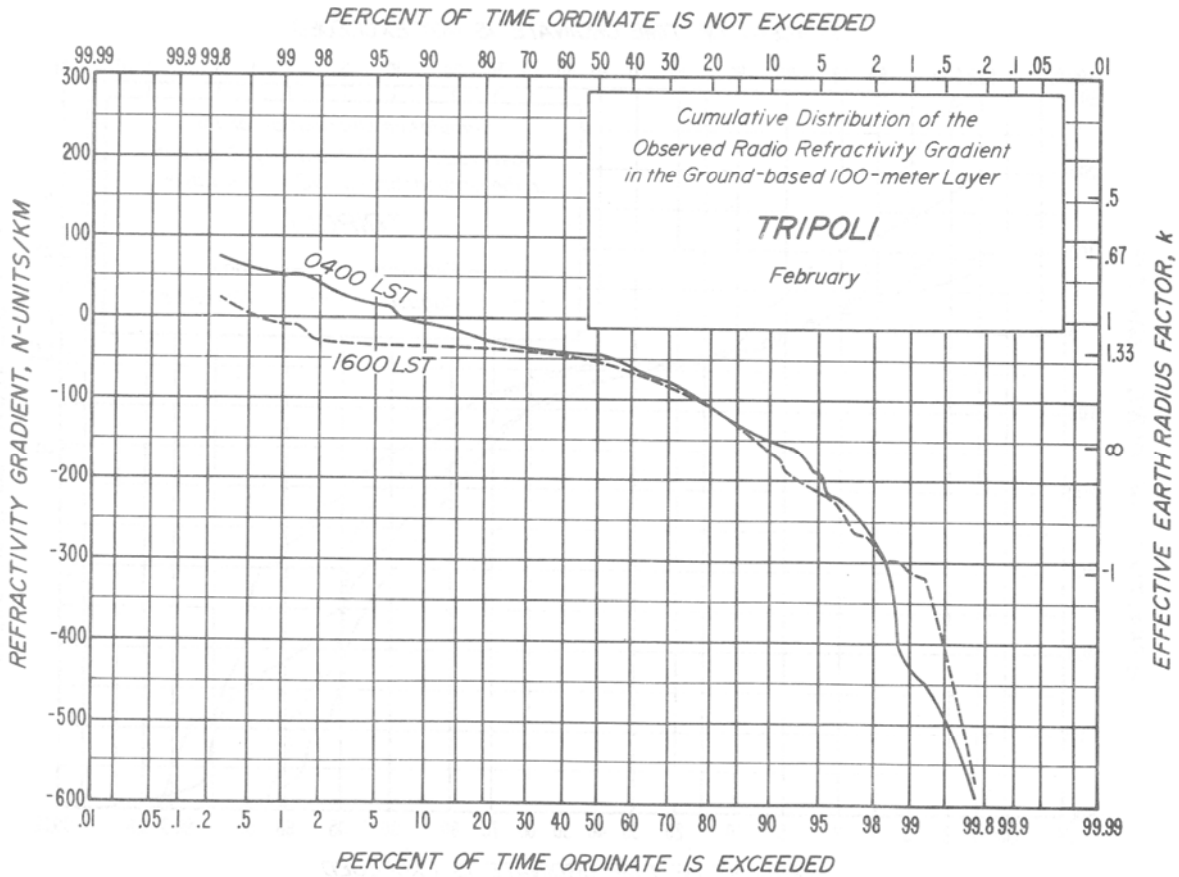
Data: Radiosonde.	0300 and 1500Z (0400 and 1600 LST):	1/51 - 10/55
	0200 and 1400Z (0300 and 1500 LST):	11/55 - 4/57
	0000 and 1200Z (0100 and 1300 LST):	5/57 - 12/57

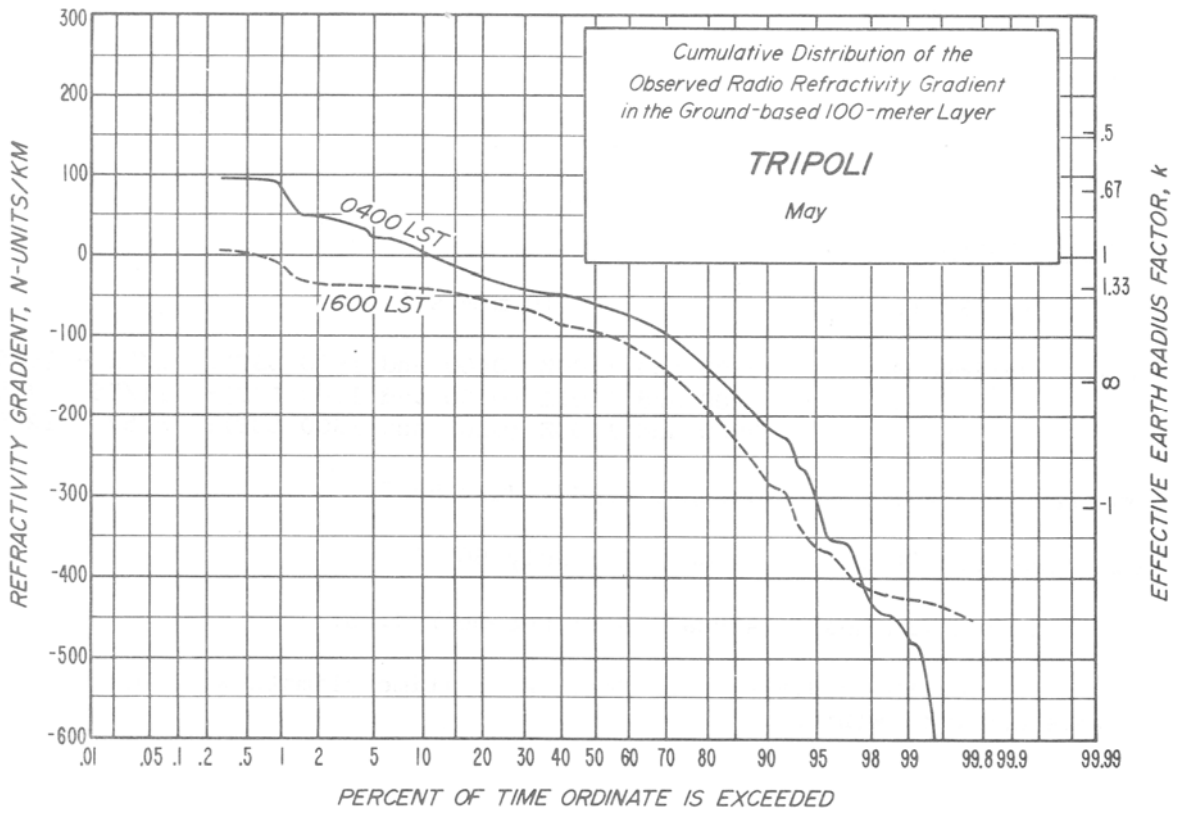
Temperature (°F): January 61/47; July 85/71

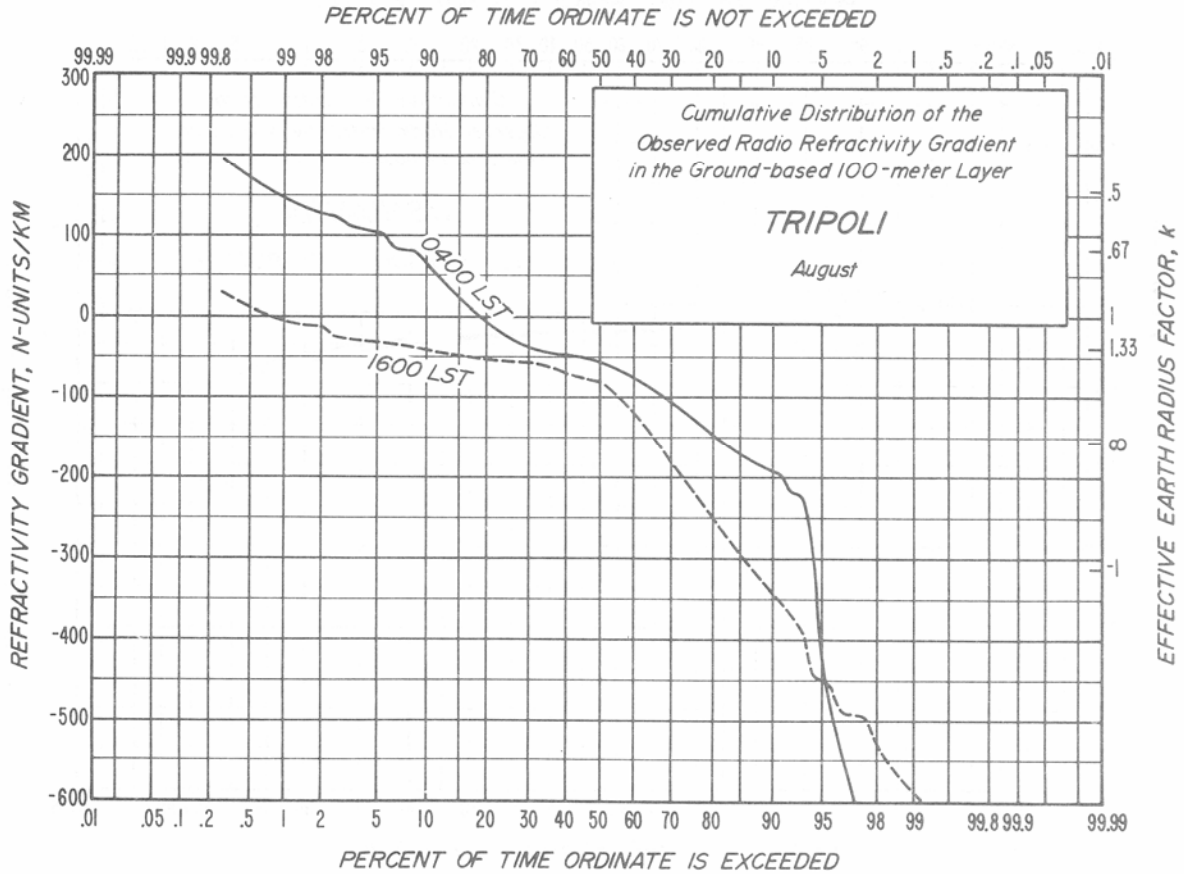
Mean Dewpoint (°F): January 42; July 66

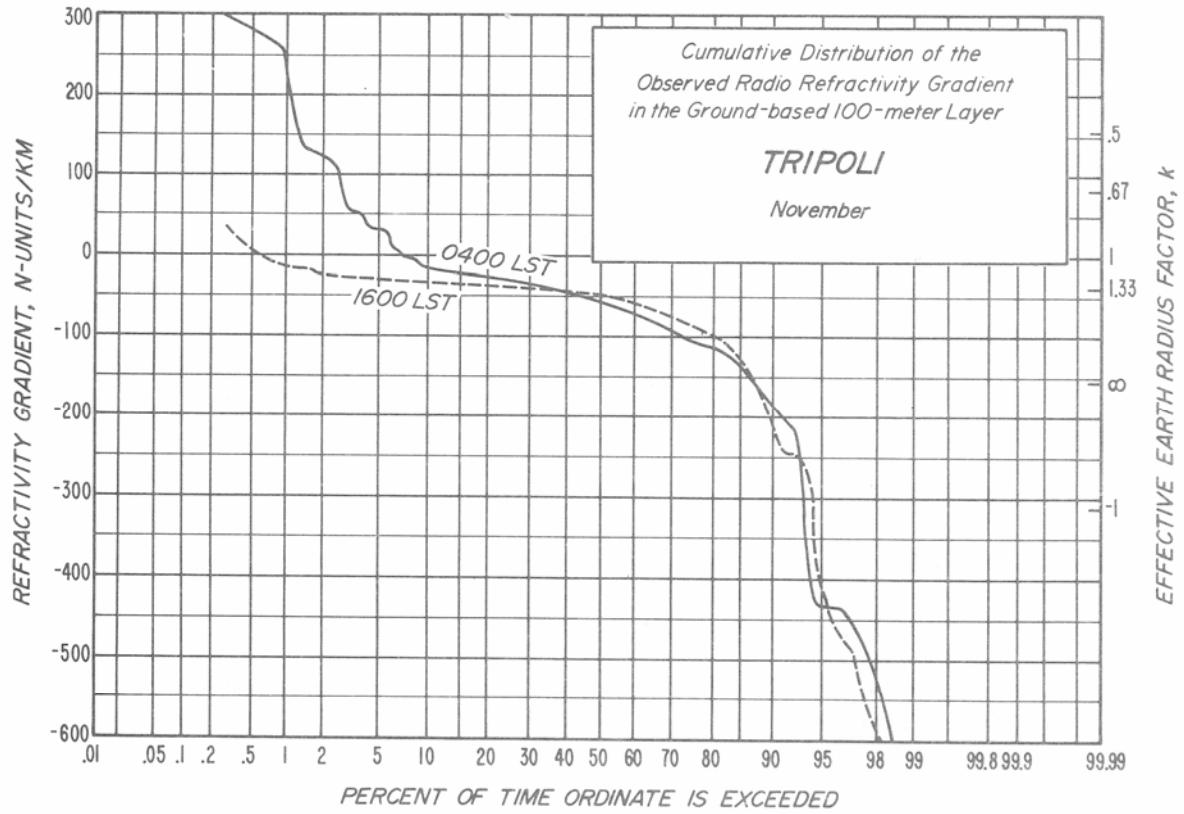
Precipitation (inches): Annual 14.6; December 3.76; July 0.02

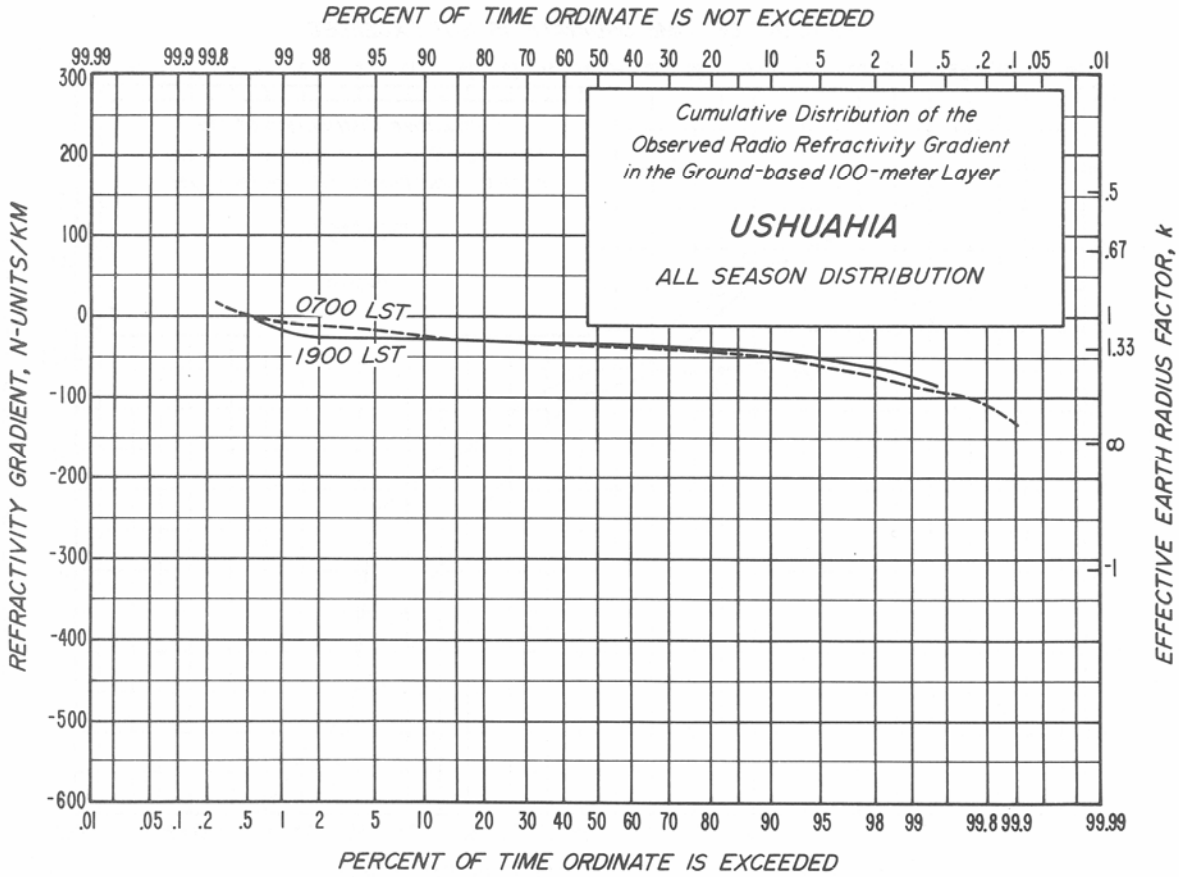
A port city on the Mediterranean Sea. A maritime climate with hot, dry summers and cool winters.


PERCENT OF TIME ORDINATE IS NOT EXCEEDED
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 .5 .2 .1 .05 .01
Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
TRIPOLI
February
0400 LST
1600 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED


Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
TRIPOLI
May
0400 LST
1600 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED


PERCENT OF TIME ORDINATE IS NOT EXCEEDED
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 .5 .2 .1 .05 .01
Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
TRIPOLI
August
0400 LST
1600 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED


Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
TRIPOLI
November
0400 LST
1600 LST
REFRACTIVITY GRADIENT, N-UNITS/KM
300 200 100 0 -100 -200 -300 -400 -500 -600
EFFECTIVE EARTH RADIUS FACTOR, k
.5 .67 1 1.33 ∞ -1
.01 .05 .1 .2 .5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PERCENT OF TIME ORDINATE IS EXCEEDED



Ushuahia, Argentina

54° 48' S, 68° 19' W 6 m m.s.l.

Data: Radiosonde. 0000 and 1200Z (1900 and 0700 LST): 2/64 - 11/68 (February, May, August, November)

Analyzed by: Entel Argentina

Temperature (°F): January 57/41; July 39/25

Mean Dewpoint (°F): January 38; July 31

Precipitation (inches): Annual 19.9; February 2.60; August 1.10

A port on Beagle Channel of the Tierra del Fuego just northwest of Cape Horn. A cool maritime climate.