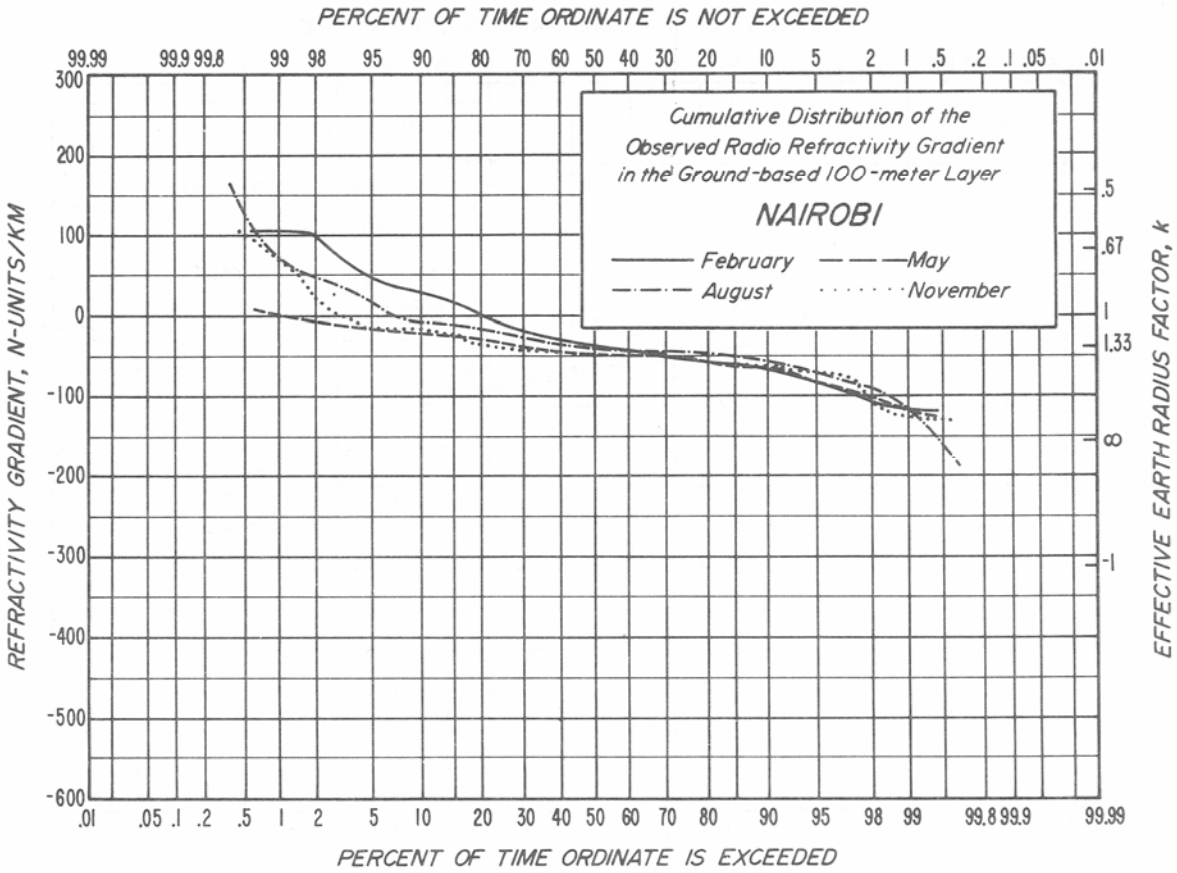


Nairobi, Kenya

01° 18' S, 36° 45' E 1798 m m.s.l.

Data: Radiosonde.

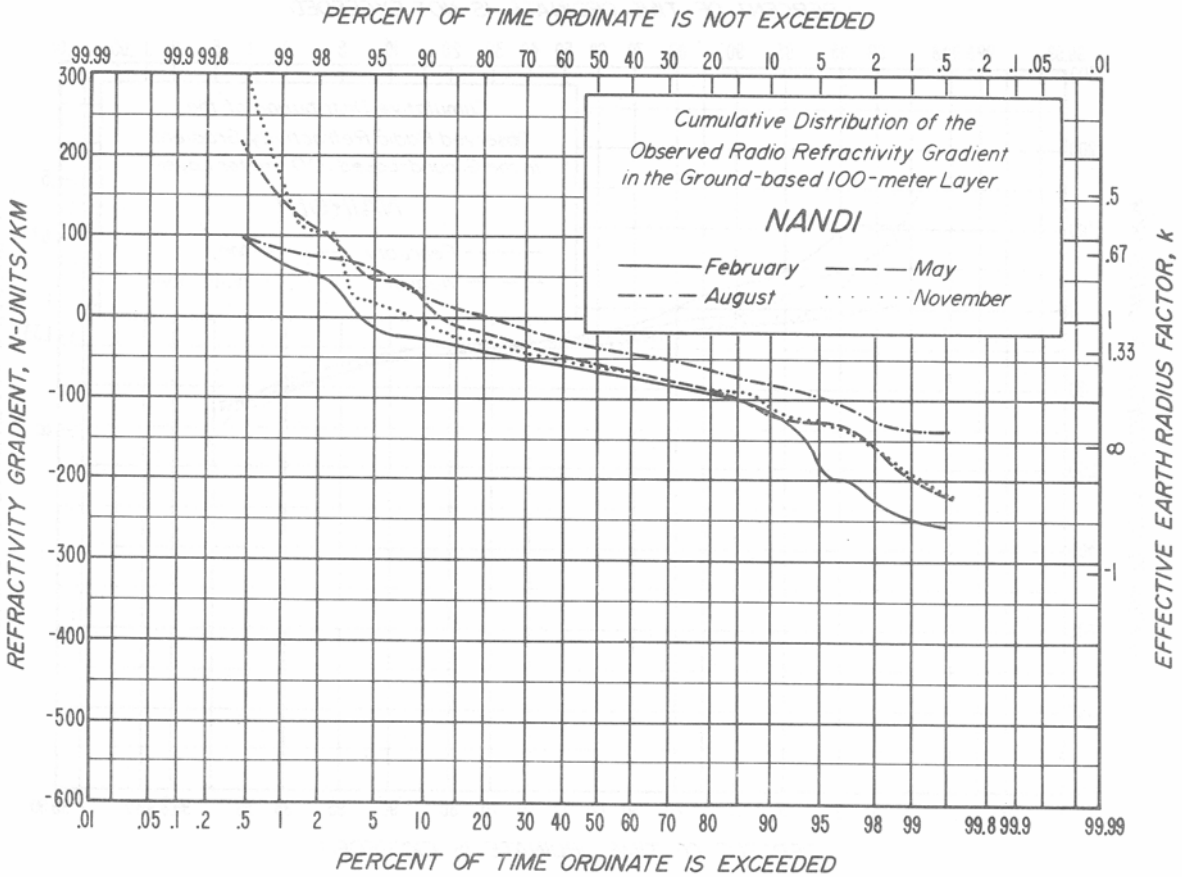
0400Z (0600 LST): 8/52 - 2/53
1200Z (1400 LST): 5/53 - 2/54
0600Z (0800 LST): 5/54 - 8/54
0000Z (0200 LST): 8/57 - 2/59
Missing data: 2/55 - 5/57

Temperature (°F): January 77/54; July 69/51

Mean Dewpoint (°F): January 55; July 54

Precipitation (inches): Annual 34.3; April 8.30; July 0.54

Located in the east African highlands between Lake Victoria and the Indian Ocean. A mild upland climate, although it is near the equator.



Nandi, Fiji Islands

17° 45' S, 177° 27' E 16 m m.s.l.

Data: Radiosonde.

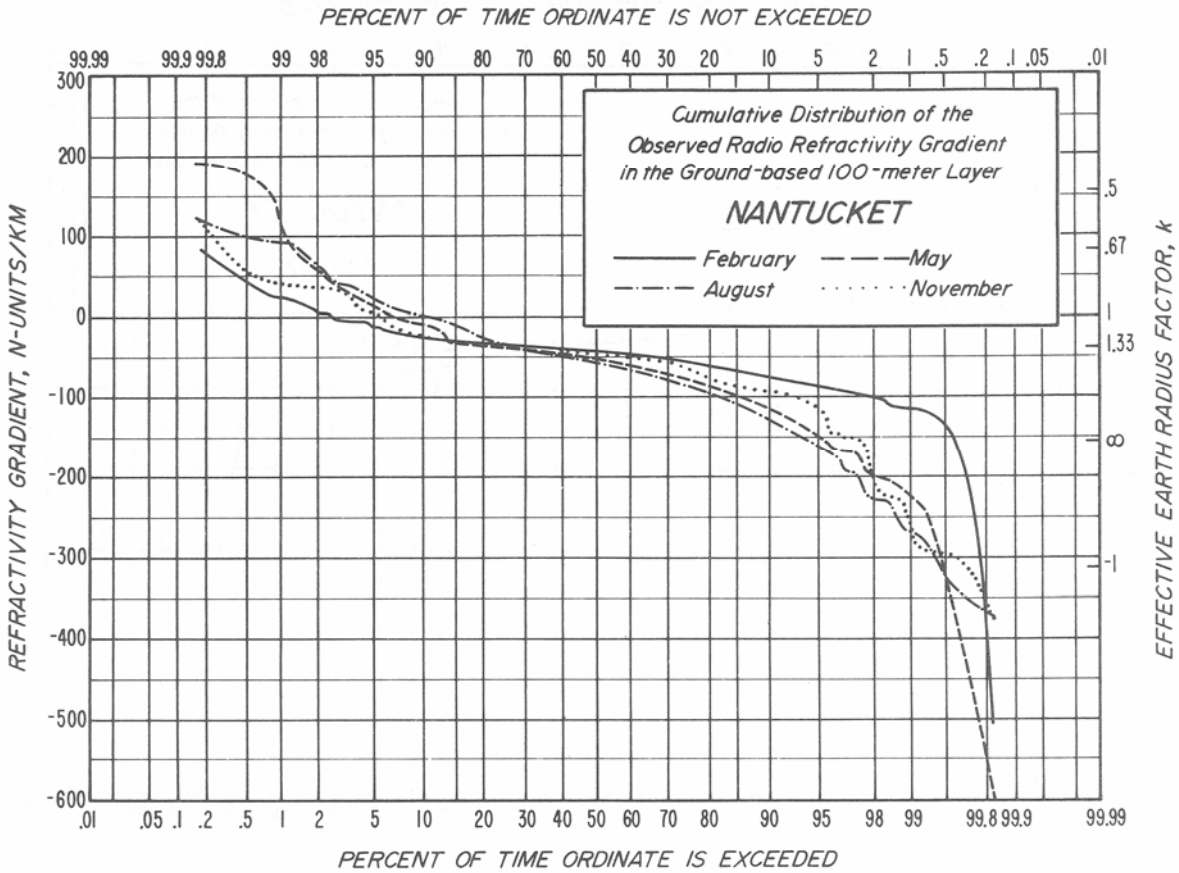
1100Z (2300 LST):	8/49 - 2/51
1000Z (2200 LST):	5/51 - 8/52
0400Z (1600 LST):	11/52 - 8/53

Temperature (°F): January 89/72; July 83/64

Mean Dewpoint (°F): January 72; July 64

Precipitation (inches): Annual 72.7; March 15.08; July 0.46

Located at the mouth of the Nandi River on Viti Levu Island of the Fiji group in the southwest Pacific Ocean. A humid tropical maritime climate.



Nantucket, Massachusetts

41° 15' N, 70° 04' W 14 m m.s.l.

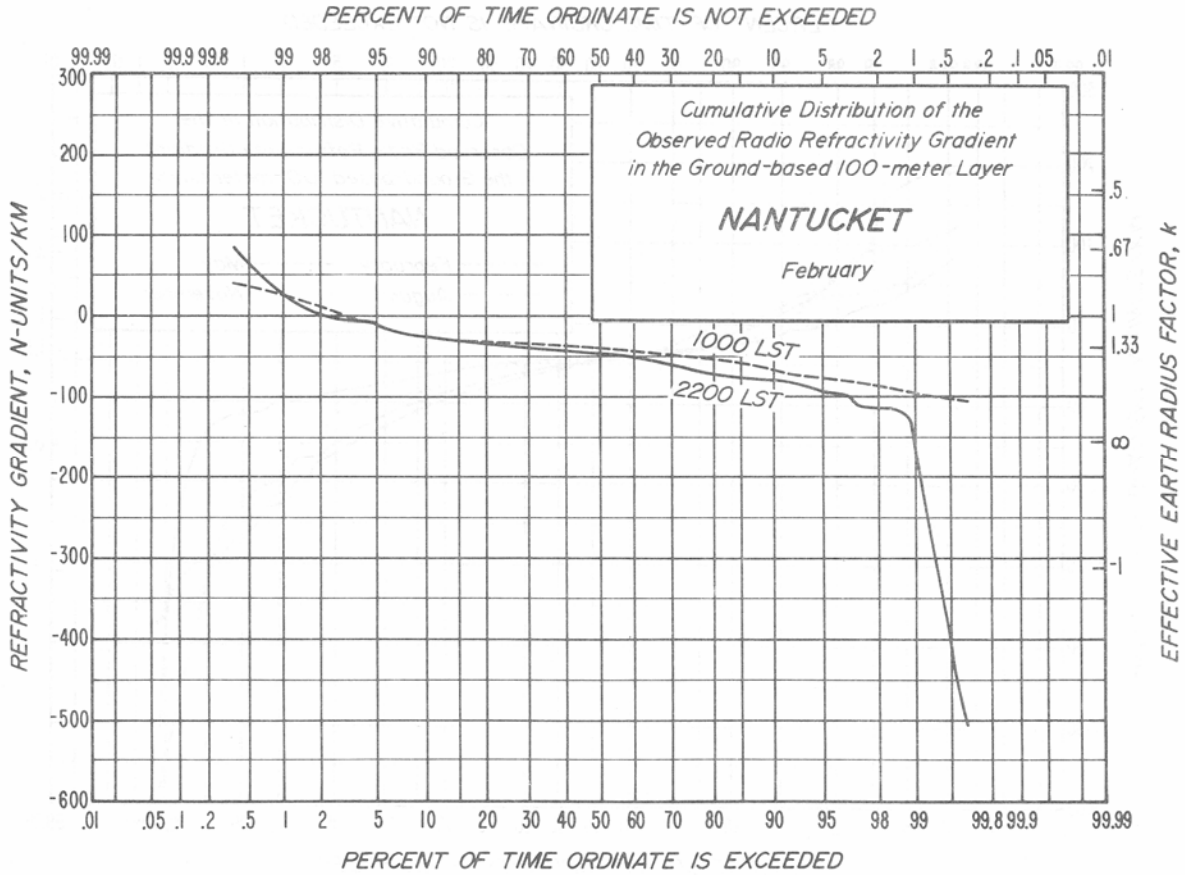
Data: Radiosonde. 0300 and 1500Z (2200 and 1000 LST): 8/52 - 5/57

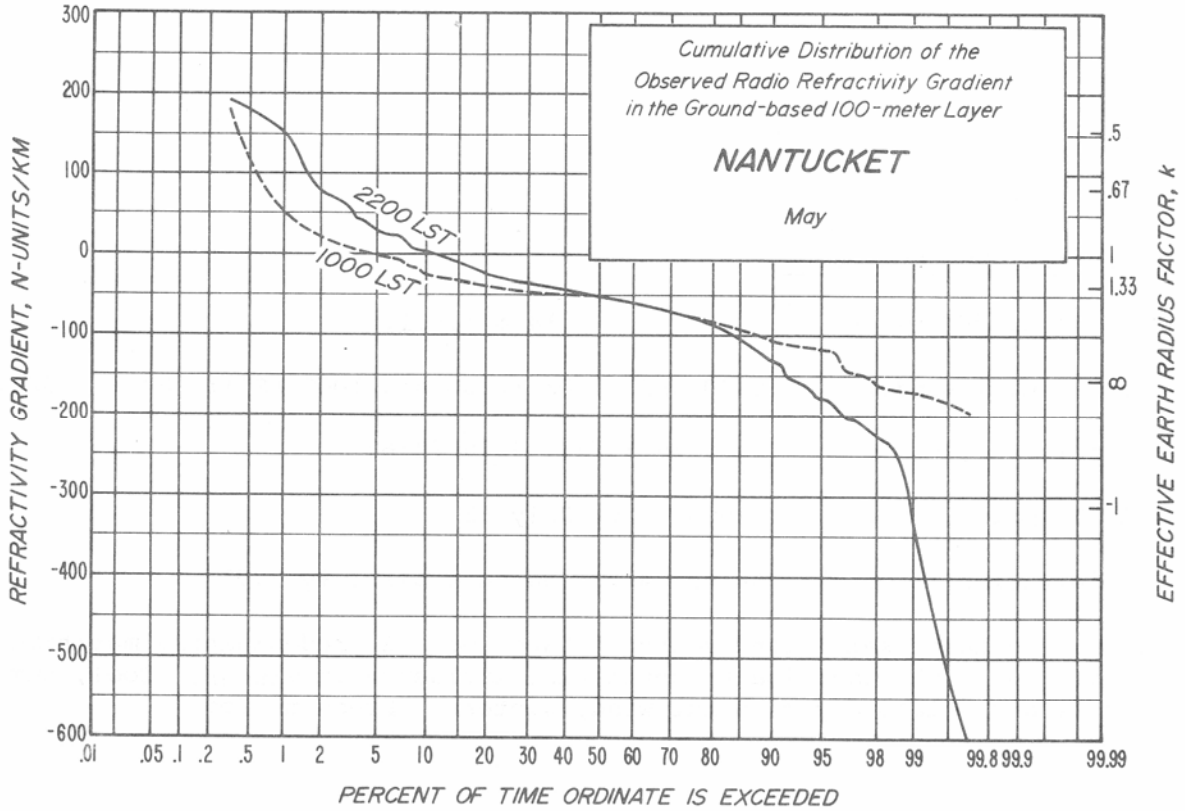
Temperature (°F): January 39/27; July 74/62

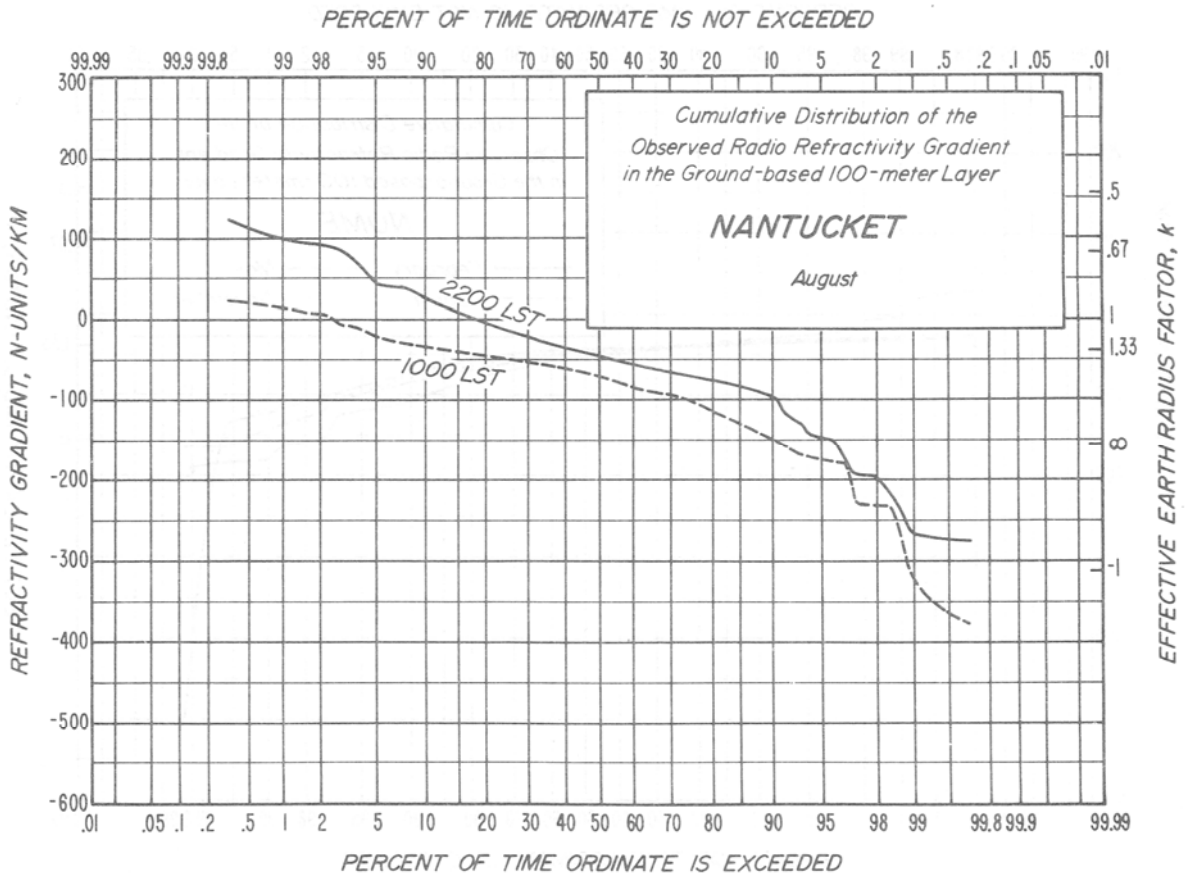
Mean Dewpoint (°F): January 26; July 63

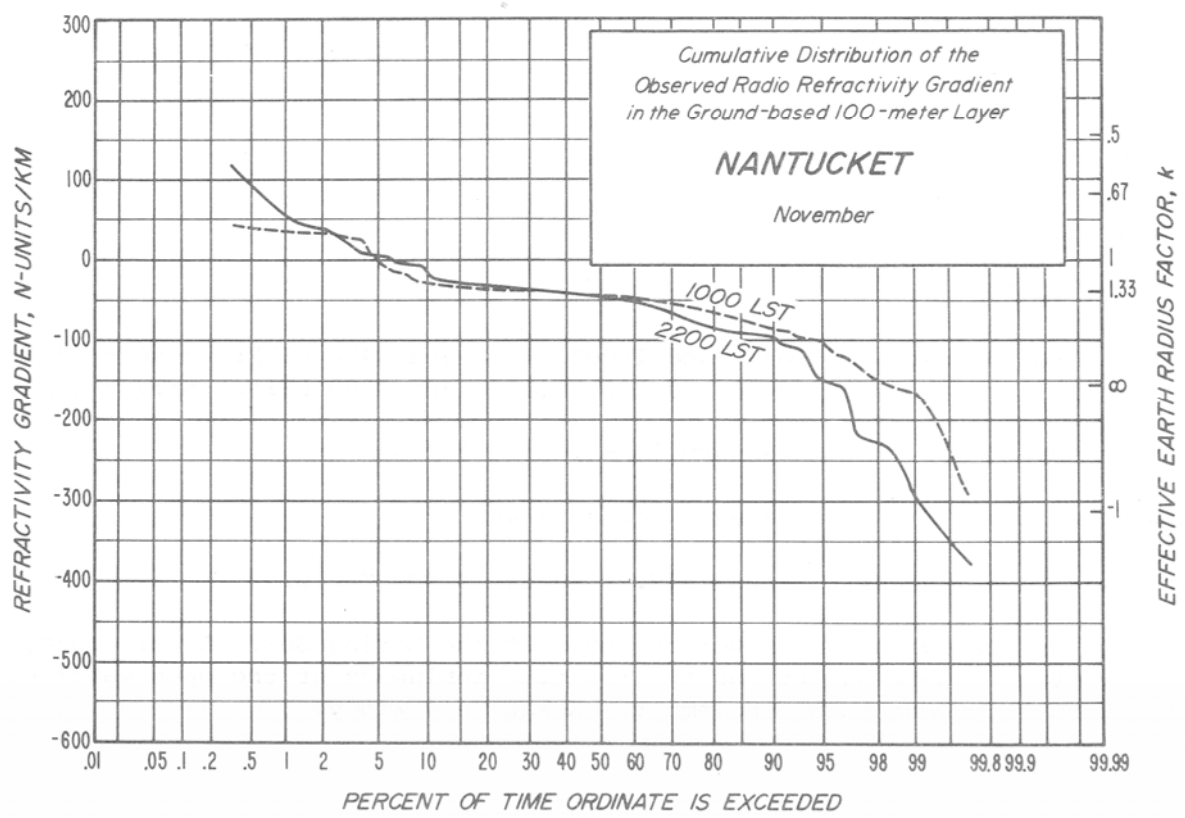
Precipitation (inches): Annual 43.7; March 4.54; July 2.71

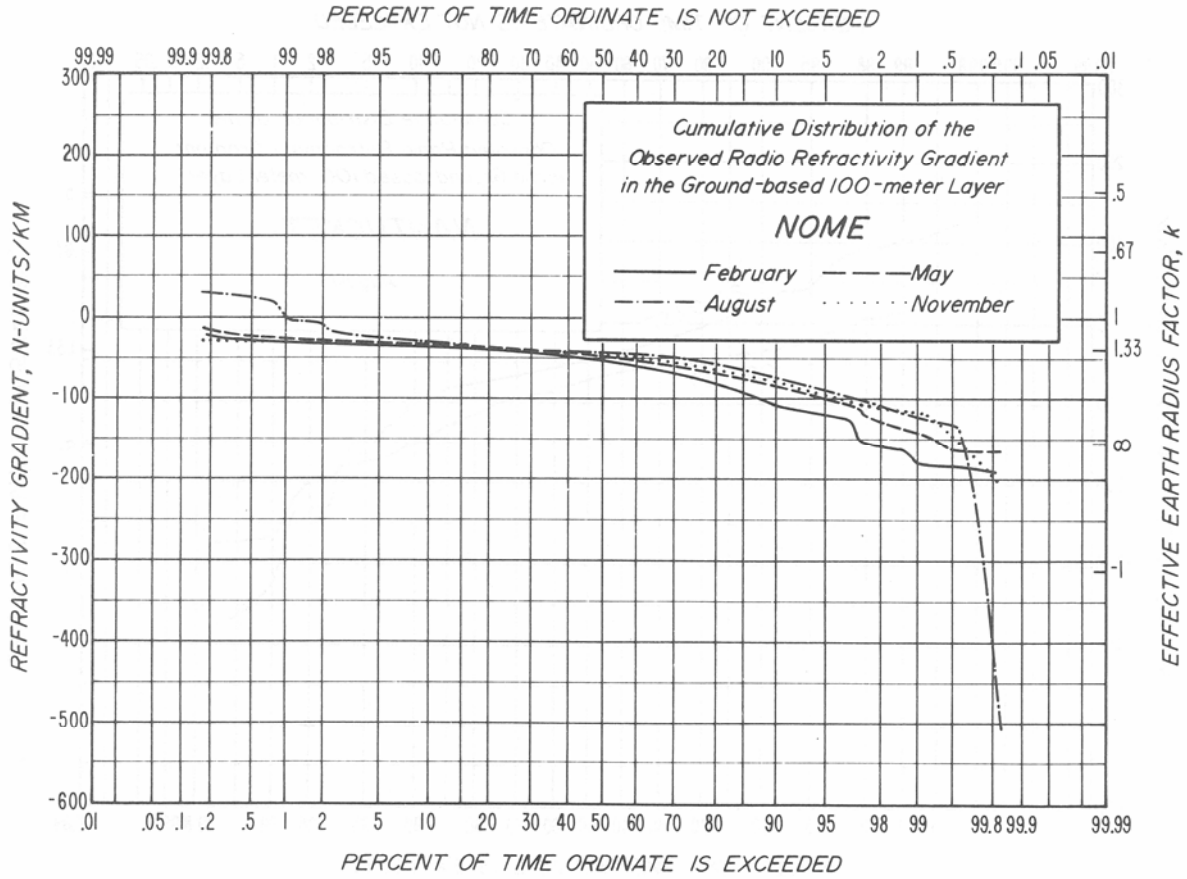
Located on Nantucket Island south of Cape Cod. A predominantly maritime climate but with significant continental influence in winter. Cool, humid summers and relatively mild but windy winters. Frequent fog.


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
NANTUCKET
February
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


Cumulative Distribution of the
Observed Radio Refractivity Gradient
in the Ground-based 100-meter Layer
NANTUCKET
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
NANTUCKET
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
NANTUCKET
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



Nome, Alaska

64° 30' N, 165° 26' W 14 m m.s.l.

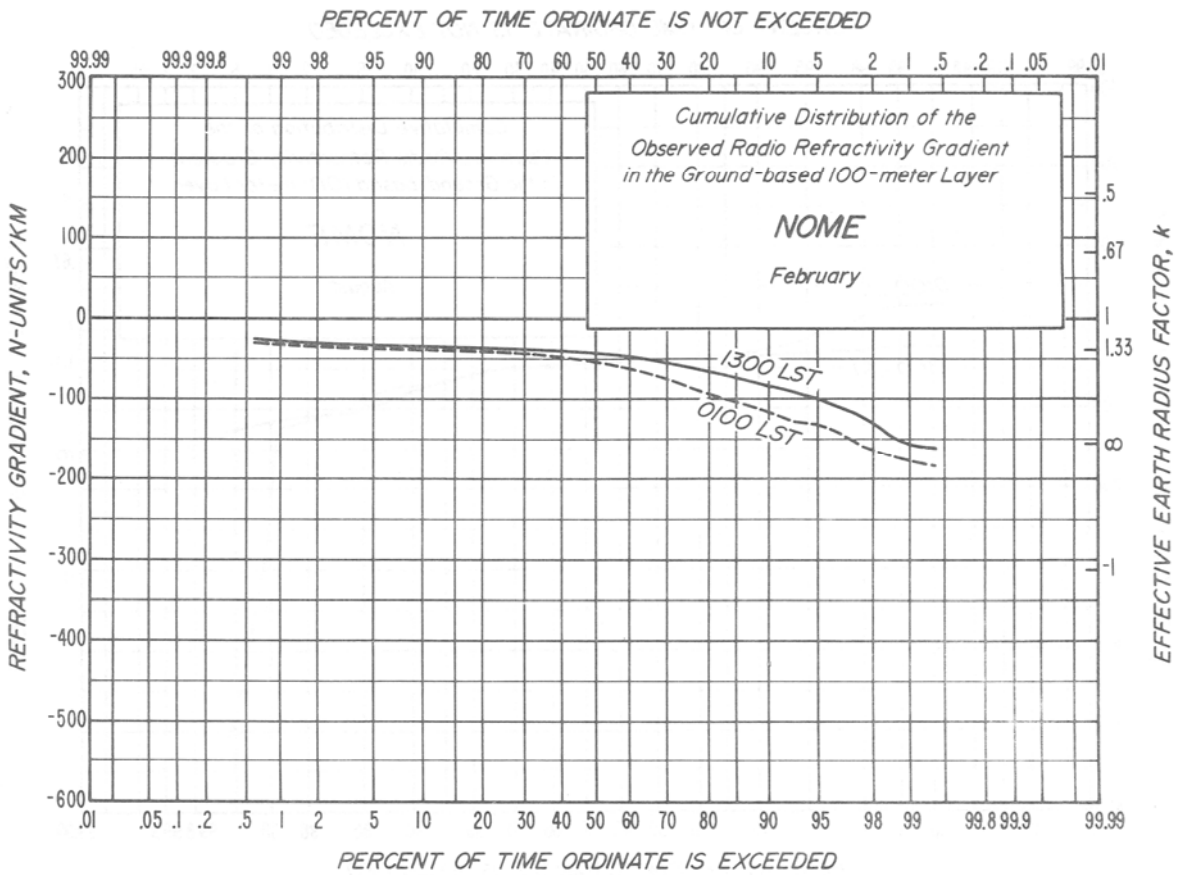
Data: Radiosonde. 0300 and 1500Z (1600 and 0400 LST): 2/56 - 5/57
0000 and 1200Z (1300 and 0100 LST): 8/57 - 11/60

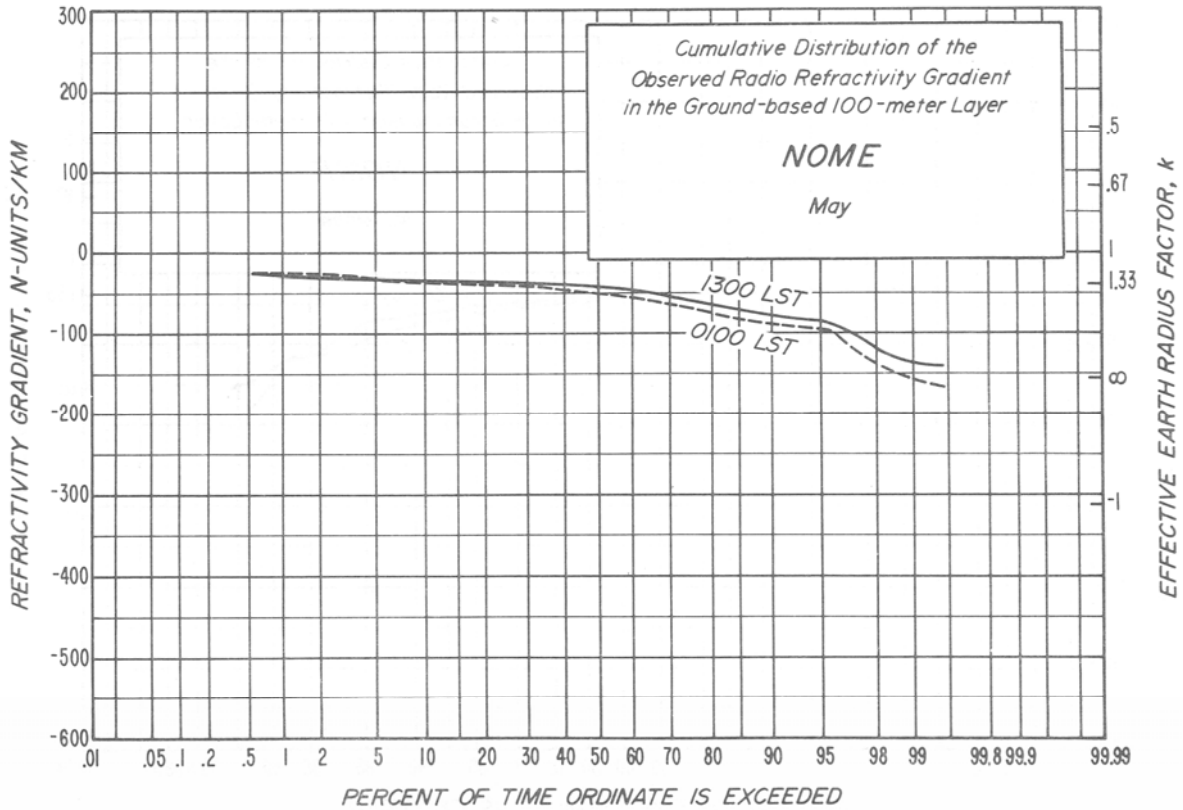
Temperature (°F): January 12/-3; July 55/44

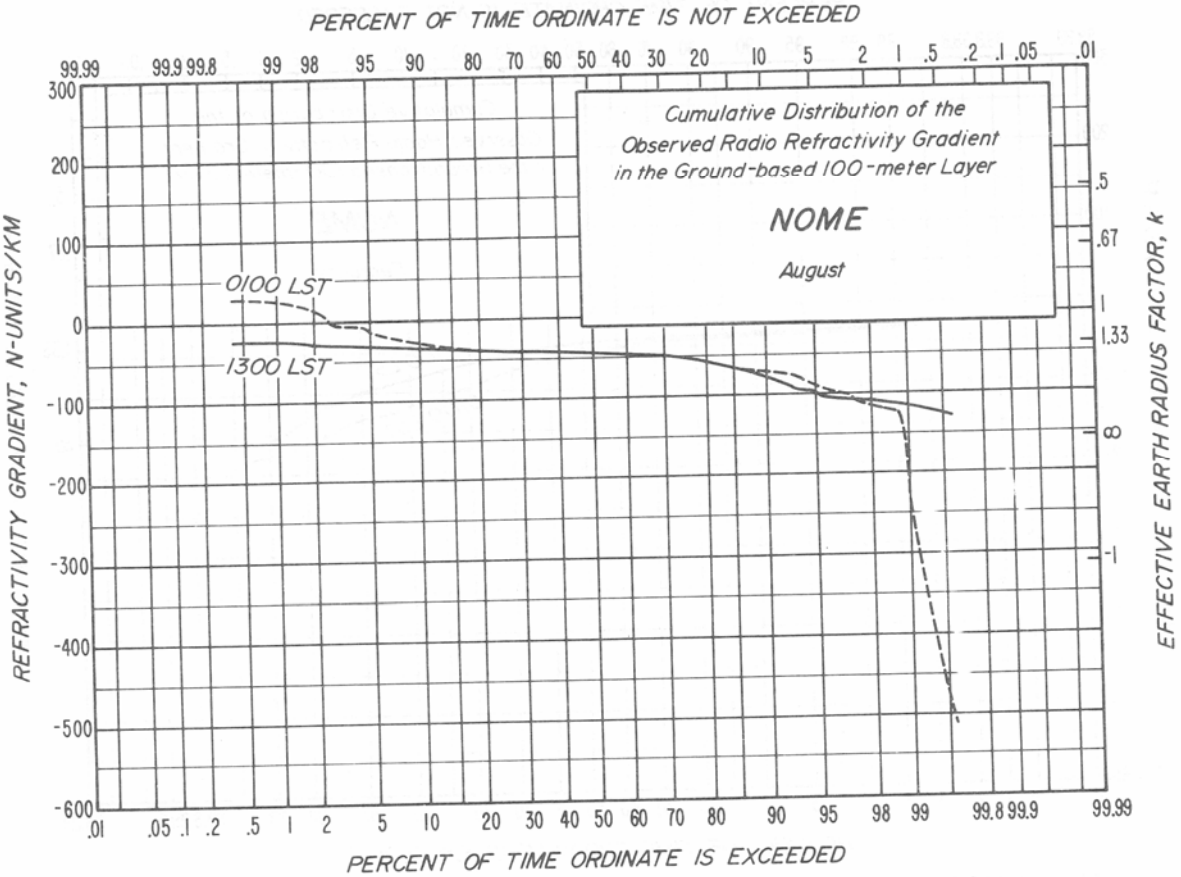
Mean Dewpoint (°F): January -1; July 46

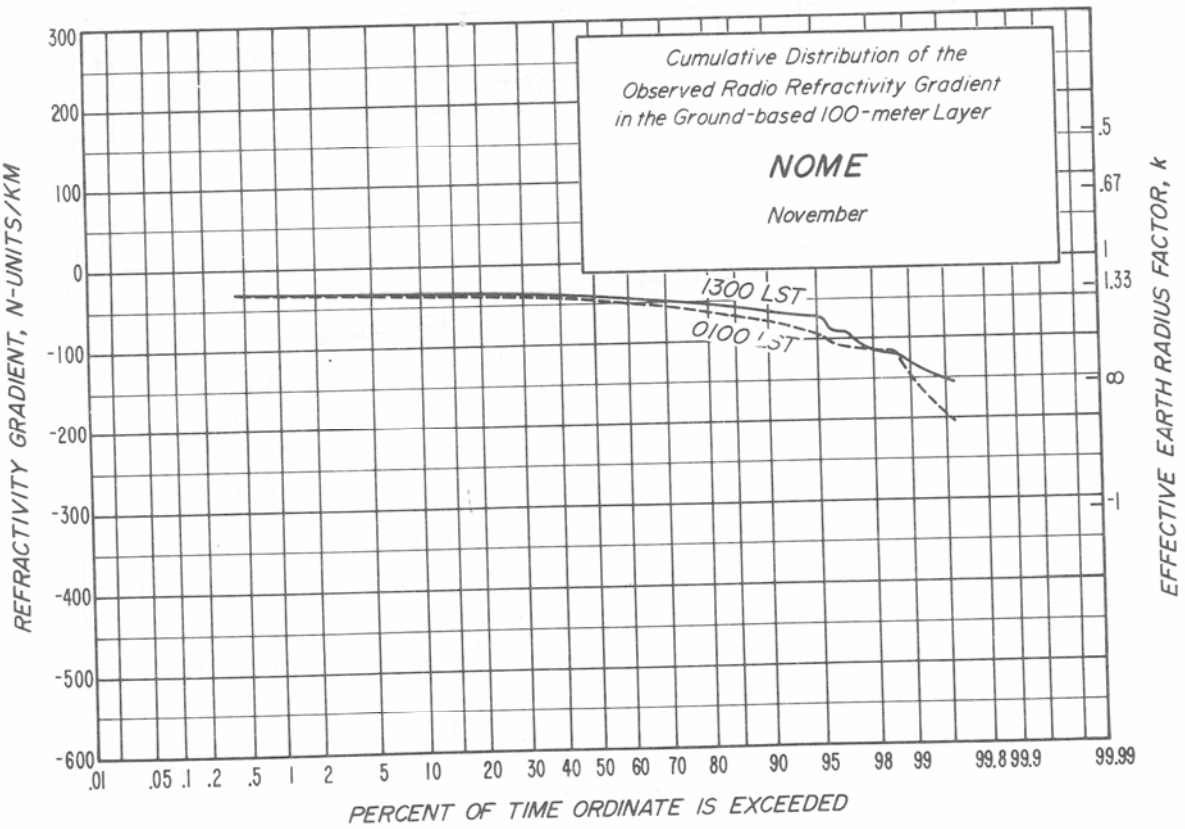
Precipitation (inches): Annual 17.9; August 3.80; May 0.69

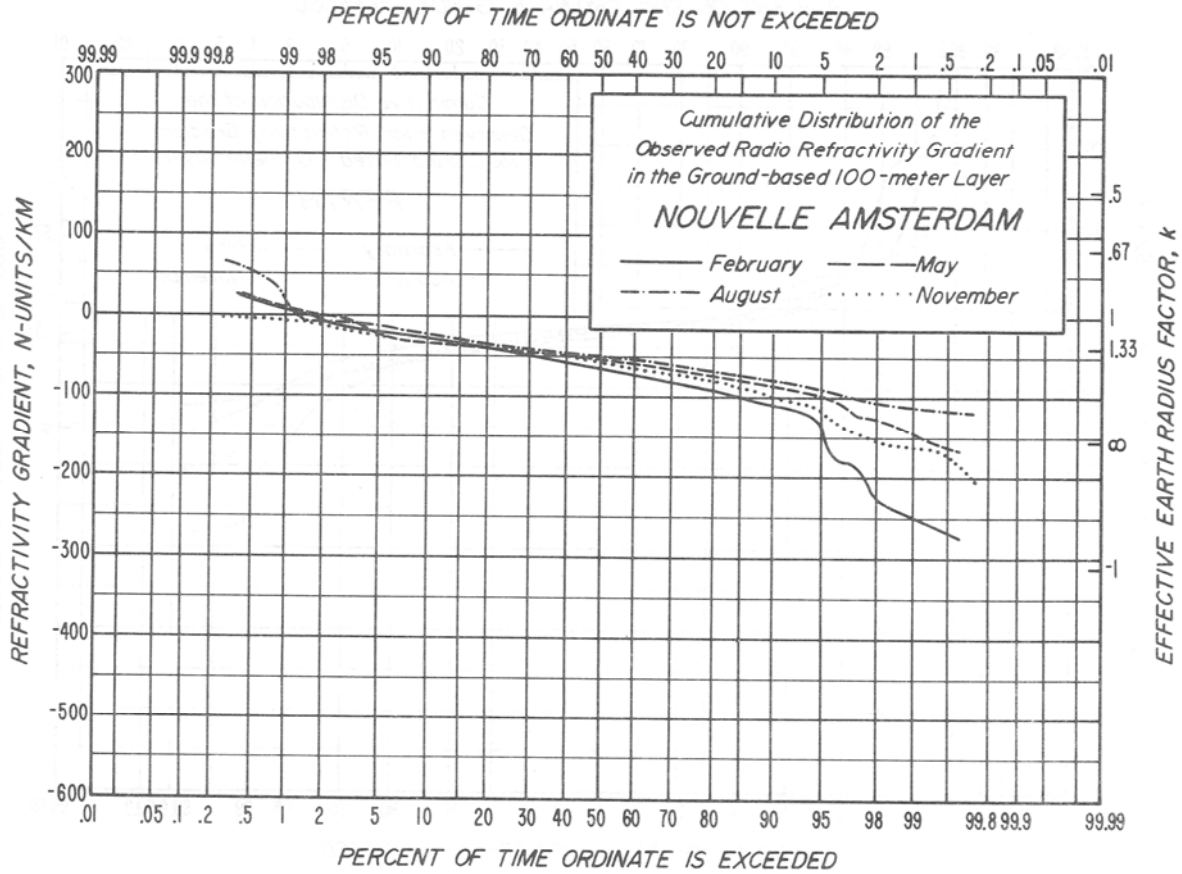
Located on flat ground near Norton Sound of the Bering Sea. A very cold, continental climate except for the maritime influence of the open water of the sound from June to mid-November. Relatively windy.


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
NOME
February
1300 LST
0100 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
NOME
May
1300 LST
0100 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
NOME
August
0100 LST
1300 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
NOME
November
1300 LST
0100 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



Nouvelle Amsterdam Island

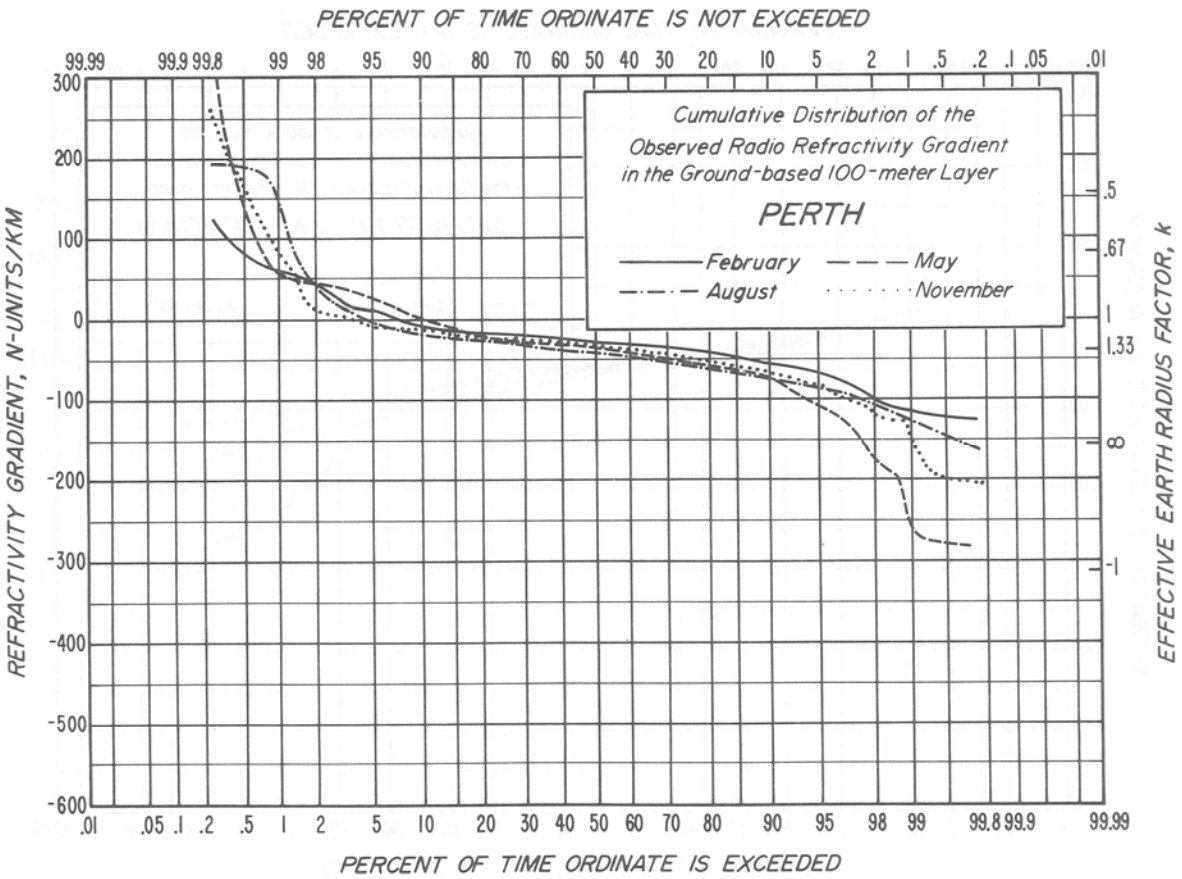
37° 50' S, 77° 34' E 28 m m.s.l.

Data: Radiosonde. 0400Z (0900 LST): 8/52 - 11/55
1200Z (1700 LST): 8/57 - 11/59

Temperature (°F): Varies from 41 to 68; average 54

Precipitation (inches): Not available

A volcanic island in the southern Indian Ocean. It has a cool maritime climate with strong westerly winds and frequent fog.



Perth, Australia

31° 57' S, 115° 49' E 60 m m.s.l.

Data: Radiosonde. 0700Z (1500 LST): 4/51 - 8/52
0400Z (1200 LST): 11/52 - 2/53

Temperature (°F): January 85/63; July 63/48

Mean Dewpoint (°F): January 58; July 48

Precipitation (inches): Annual 34.7; June 7.10; January 0.30

Located on the Swan River in southwest Australia a short distance inland from the Indian Ocean. A predominantly maritime climate with warm, dry summers and cool, wet winters.