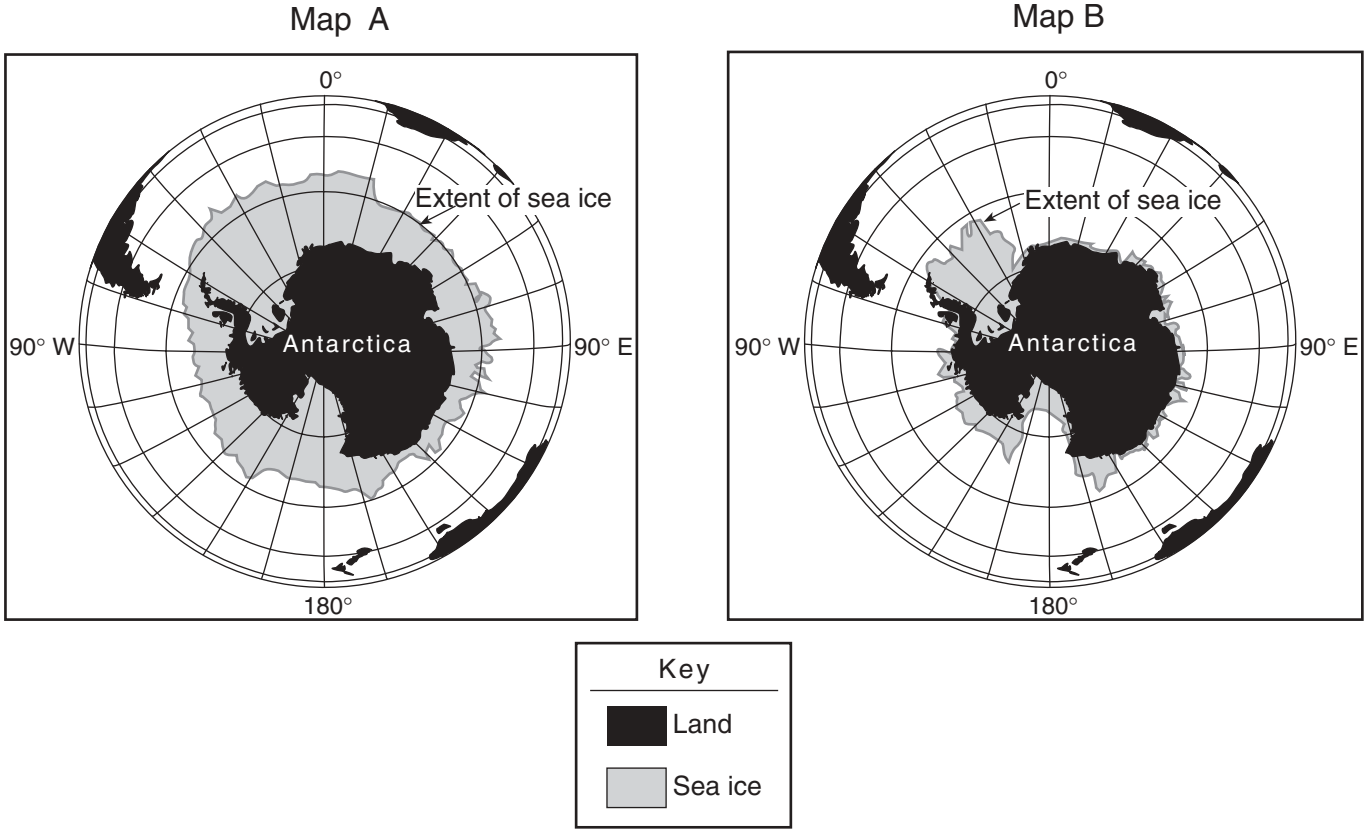
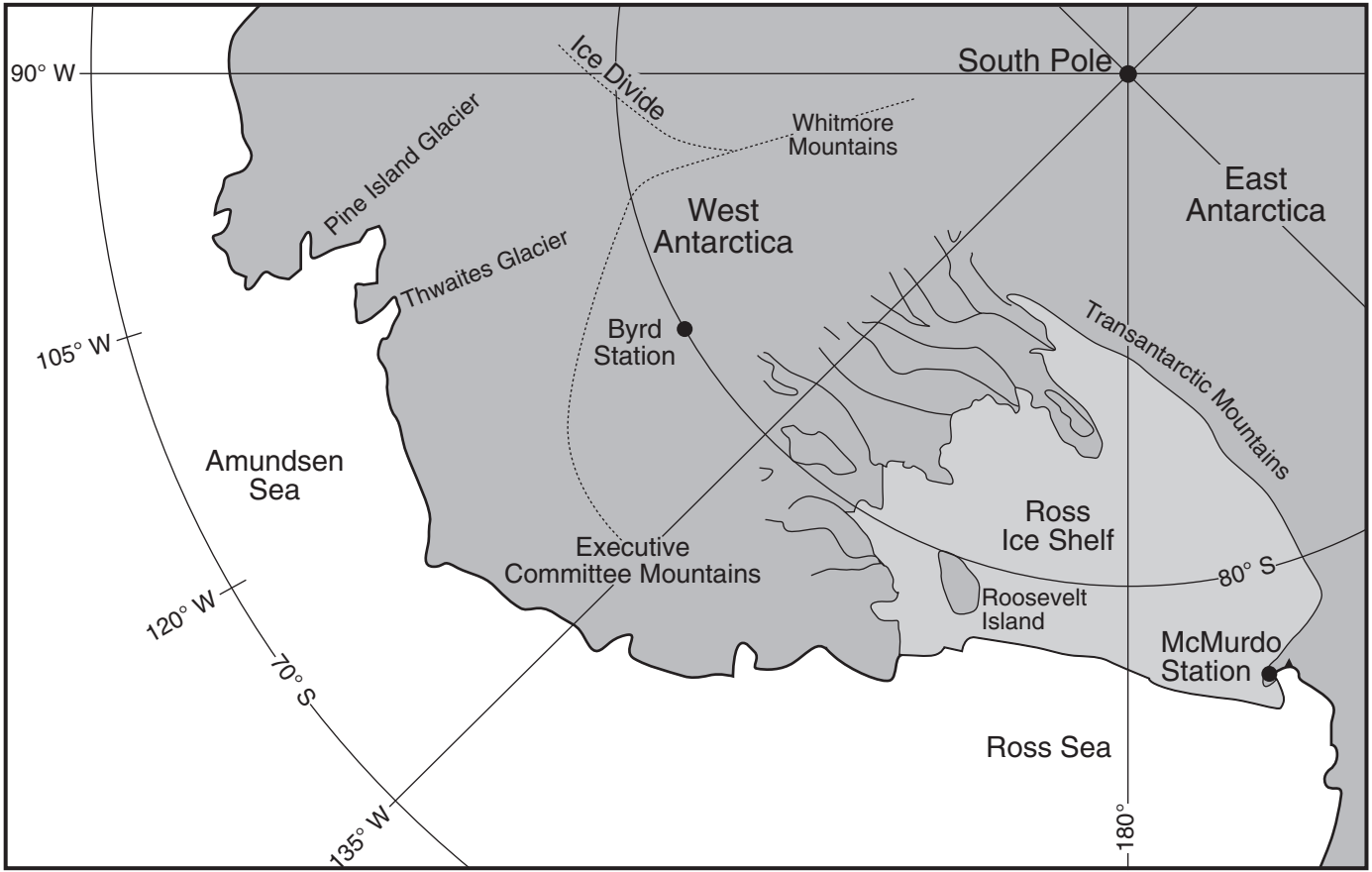
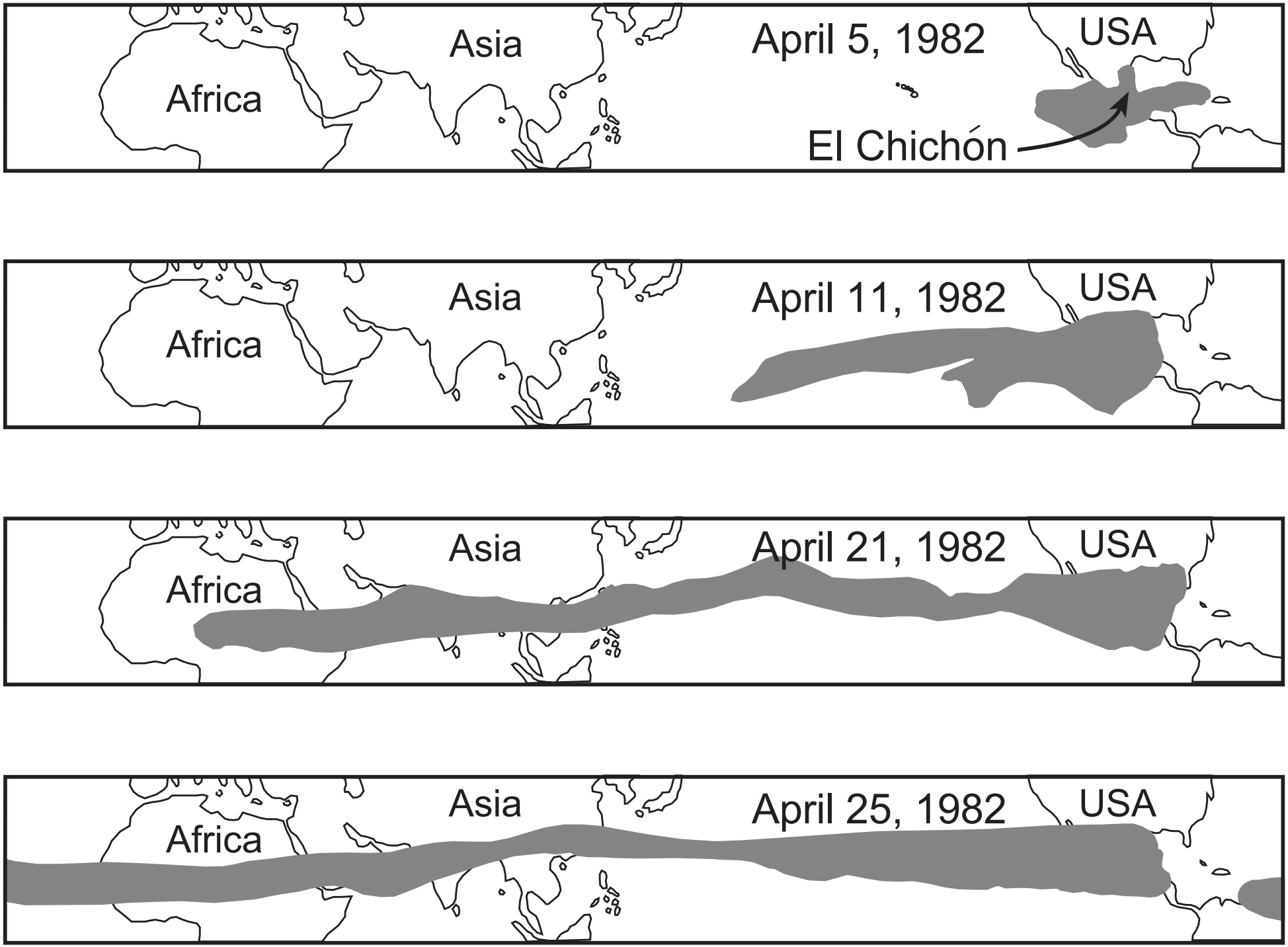
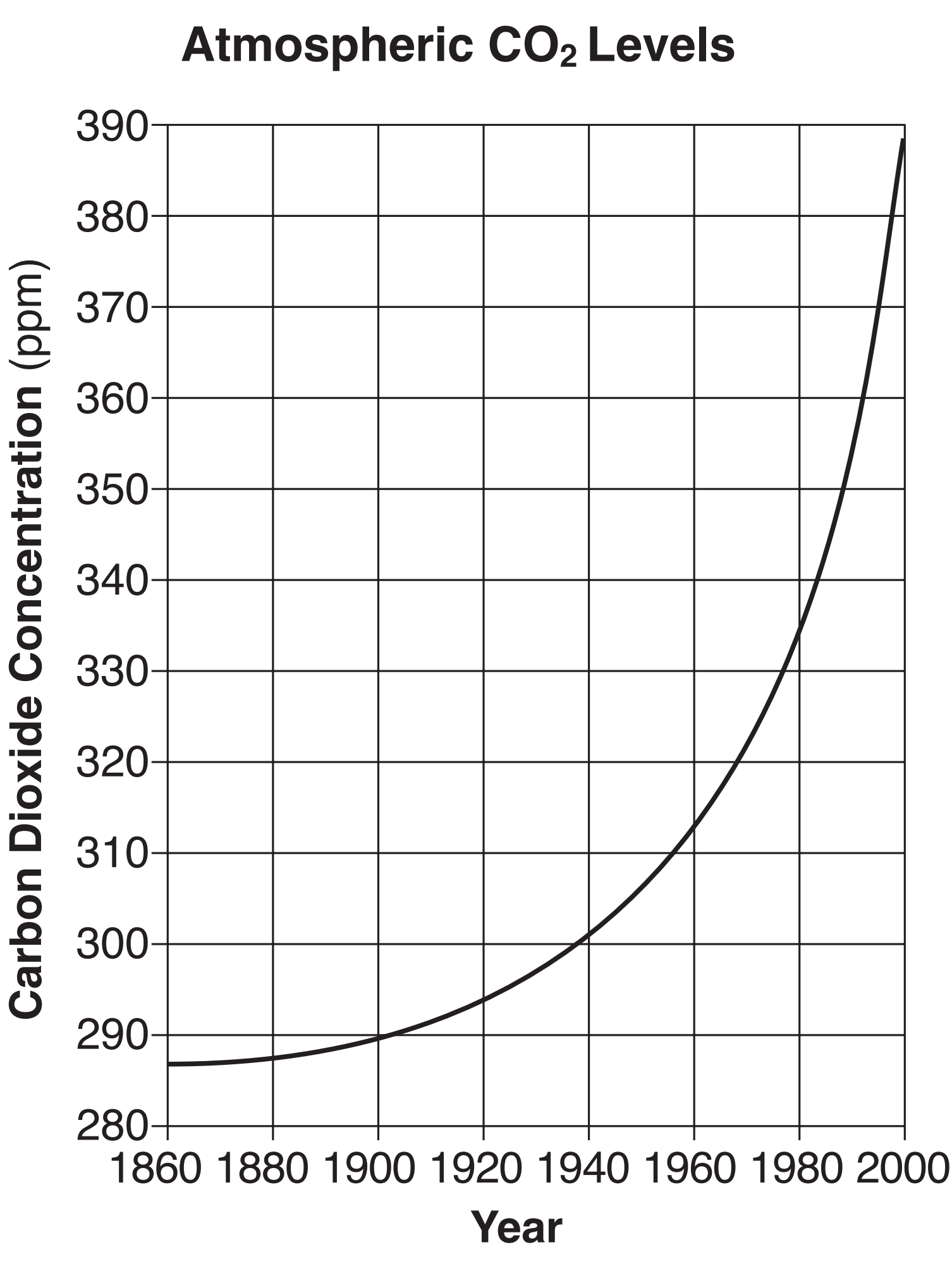
Data Table

Location	Maximum Temperature (°F)	Minimum Temperature (°F)	Mean Annual Precipitation (in)	Mean Annual Snowfall (in)
city A	110	–36	23.8	31.9
city B	98	–19	38.2	92.9


Map A
0°
Extent of sea ice
90° W
Antarctica
90° E
180°
Map B
0°
Extent of sea ice
90° W
Antarctica
90° E
180°
Key
Land
Sea ice

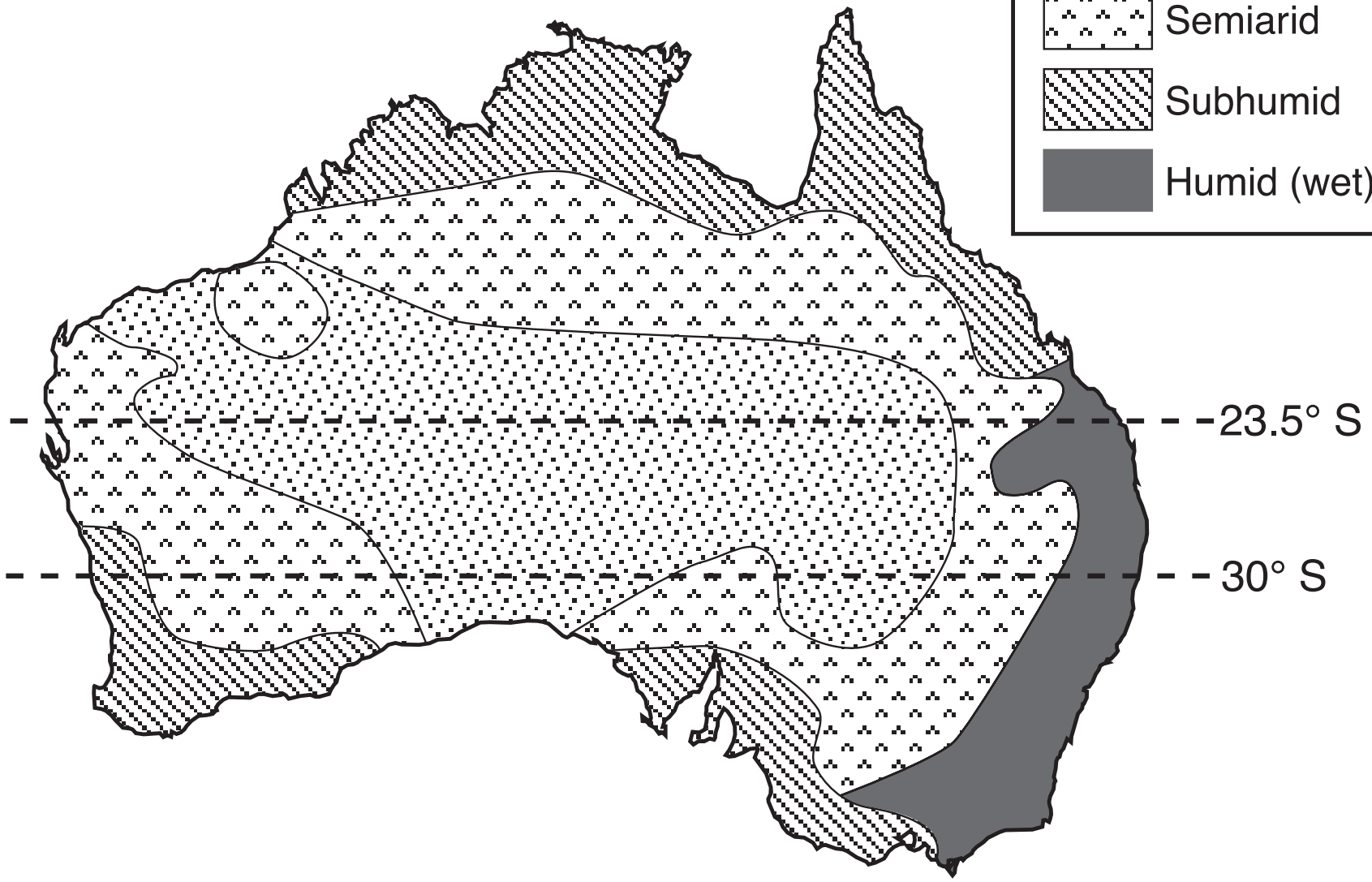

90° W
Ice Divide
South Pole
Whitmore Mountains
Pine Island Glacier
West Antarctica
East Antarctica
Thwaites Glacier
Byrd Station
105° W
Transantarctic Mountains
Amundsen Sea
Ross Ice Shelf
Executive Committee Mountains
80° S
120° W
Roosevelt Island
McMurdo Station
70° S
Ross Sea
135° W
180°


Africa
Asia
April 5, 1982
USA
El Chichón
Africa
Asia
April 11, 1982
USA
Africa
Asia
April 21, 1982
USA
Africa
Asia
April 25, 1982
USA


Atmospheric CO_2 Levels
Carbon Dioxide Concentration (ppm)
390
380
370
360
350
340
330
320
310
300
290
280
1860 1880 1900 1920 1940 1960 1980 2000
Year

Map II

Climate Regions



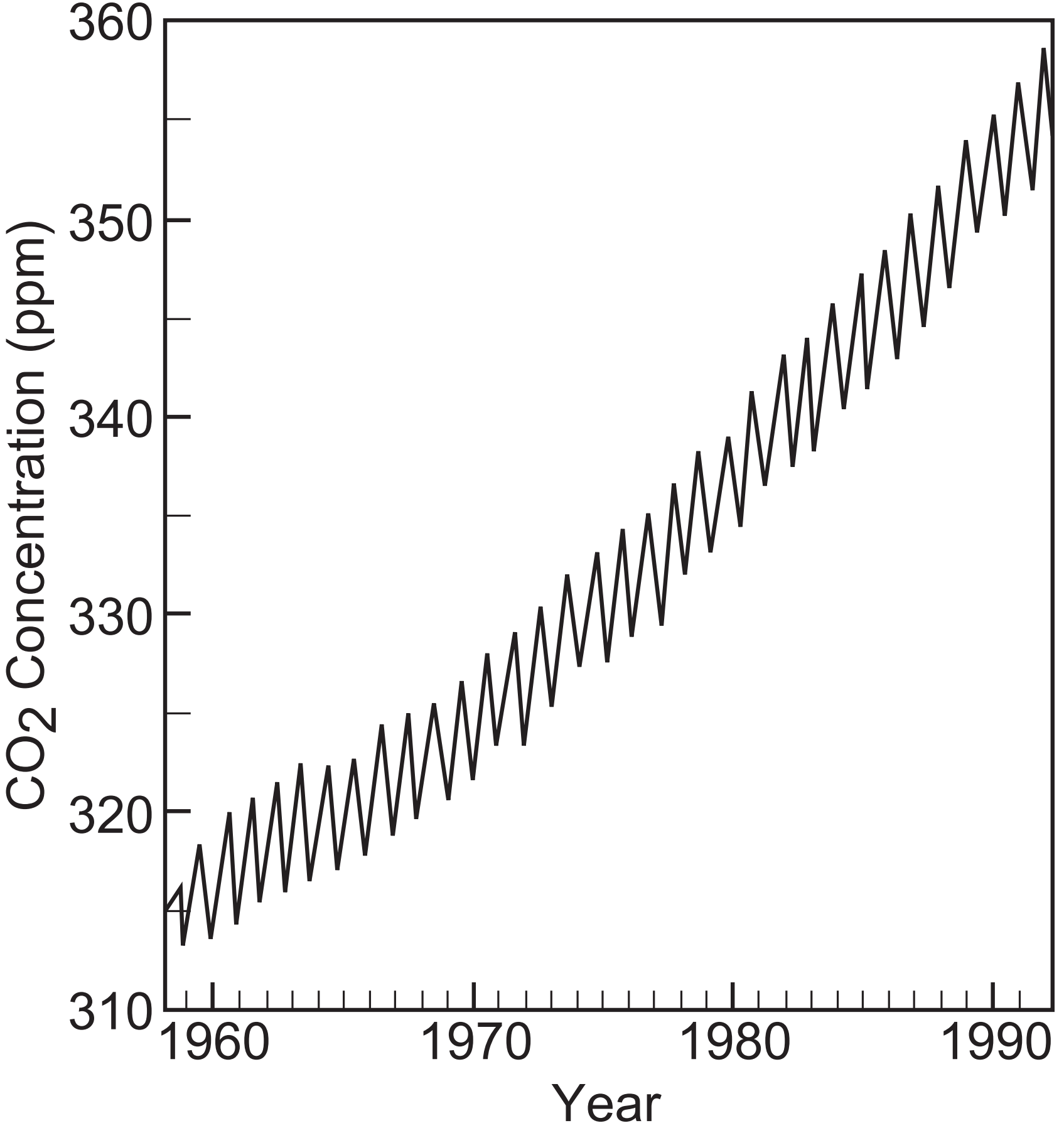
Data Table 2
Information about Two Australian Cities

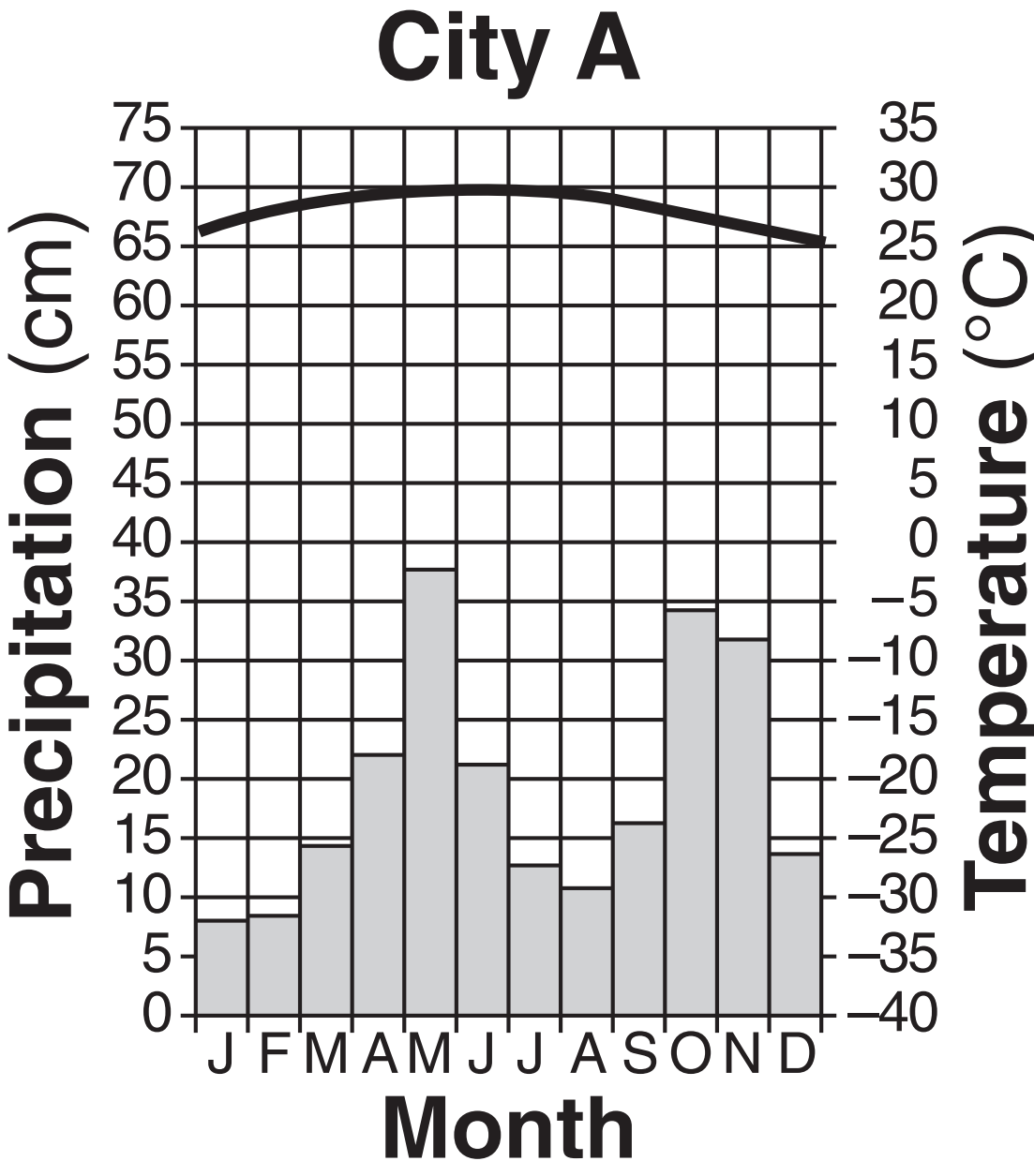
City	**Latitude** (° S)	**Longitude** (° E)	**Elevation** (m)	**Average January Rainfall** (mm)
Birdsville	25.9	139.4	47	25
Bundaberg	24.9	152.4	14	105

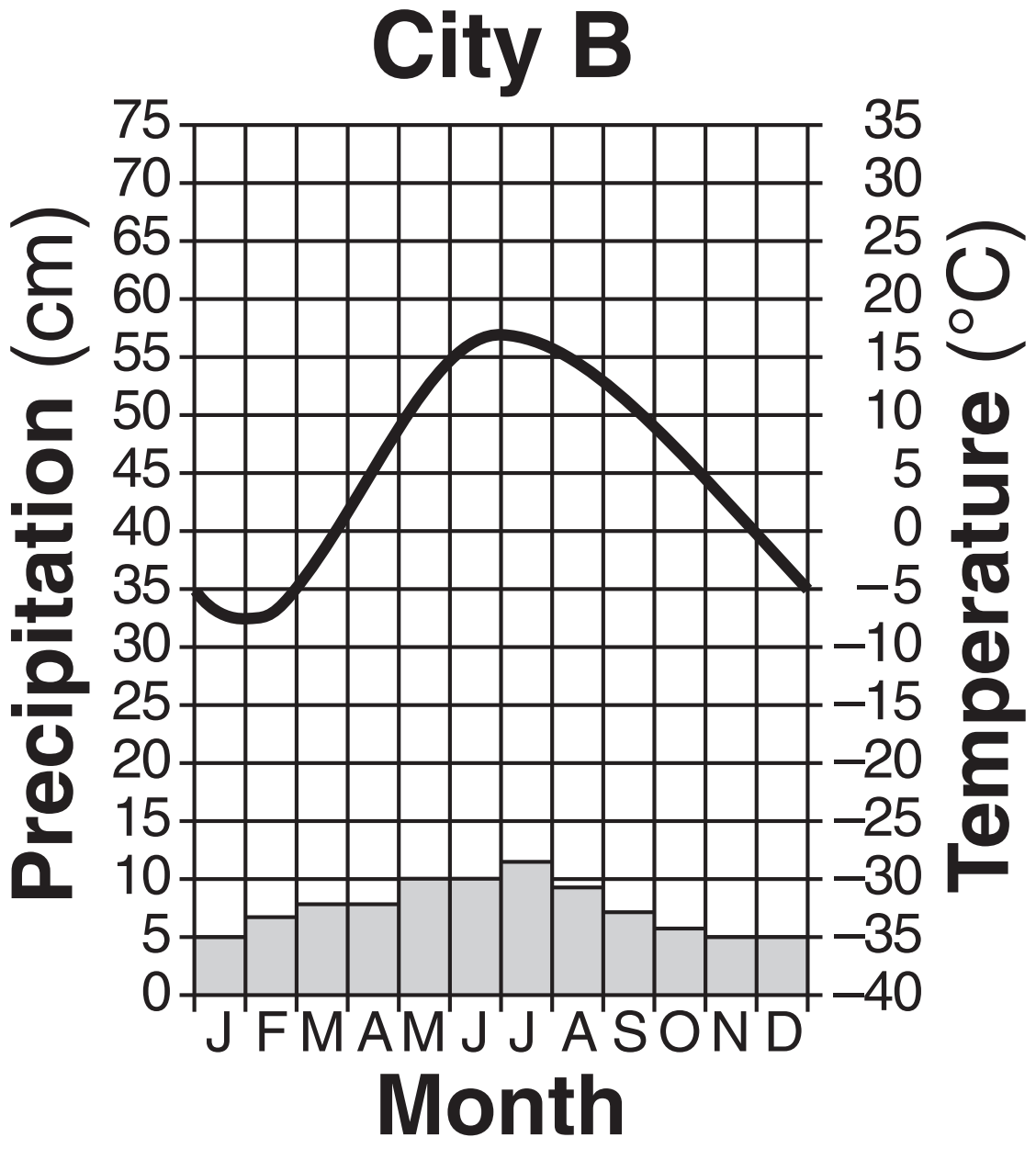
Data Table 1
Average Monthly High Temperatures for Birdsville, Australia

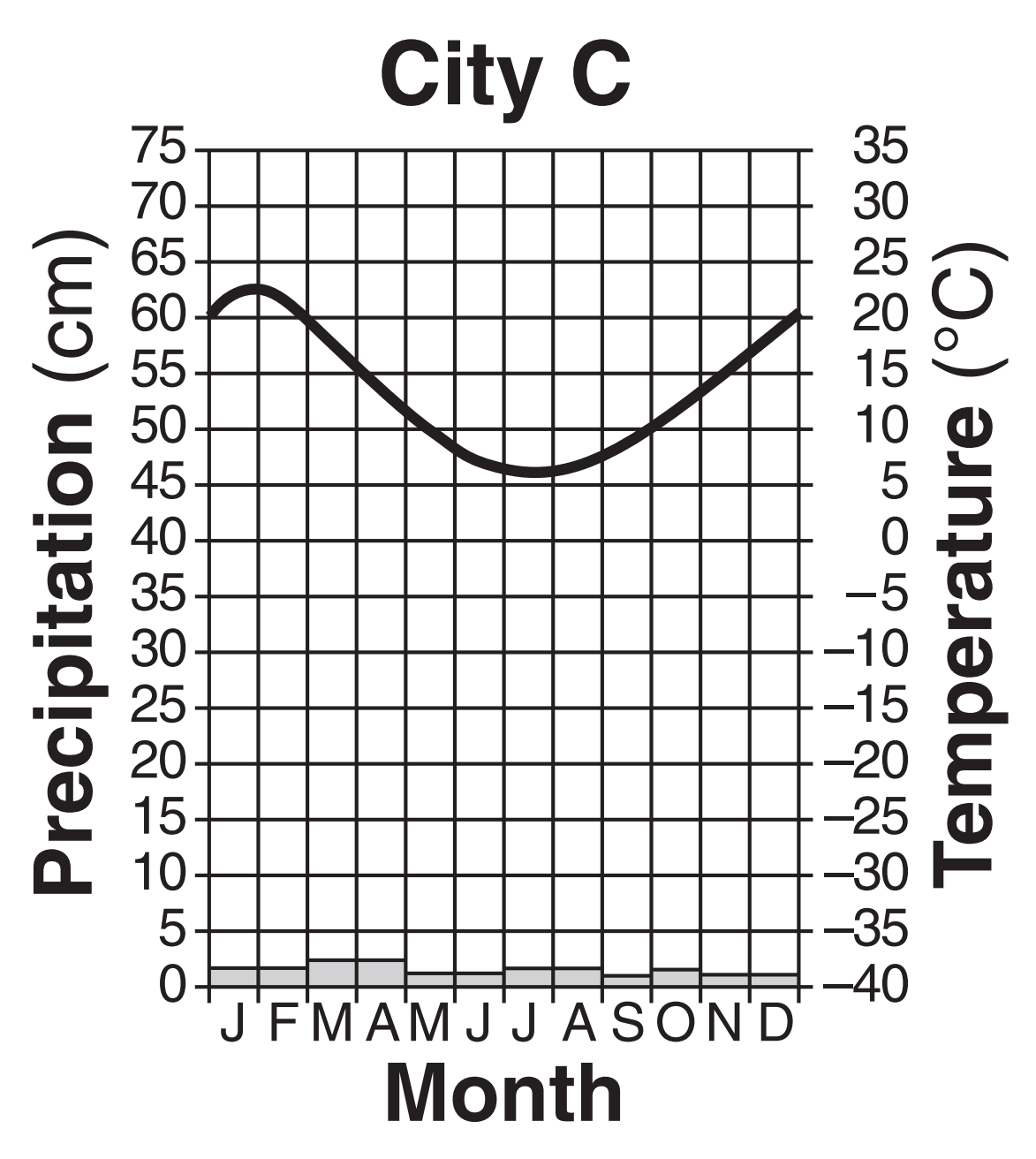
Month	**Temperature** (°C)
January	39
February	38
March	35
April	30.5
May	25
June	22
July	21
August	23.5
September	28
October	32.5
November	36
December	38

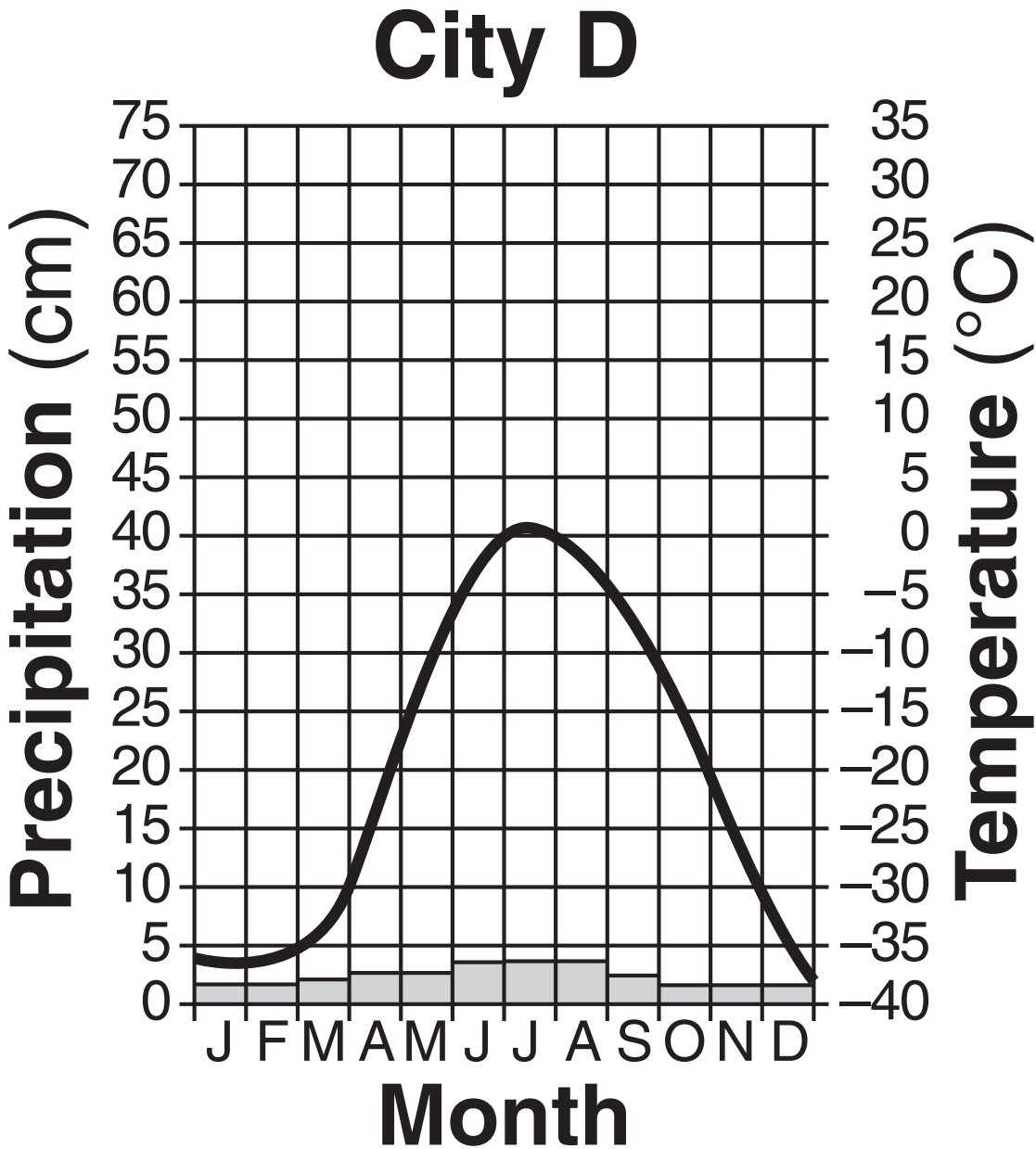
Decade	Average Date of First Ice Breakup
1960–1969	May 7
1970–1979	May 5
1980–1989	May 4
1990–1999	April 29

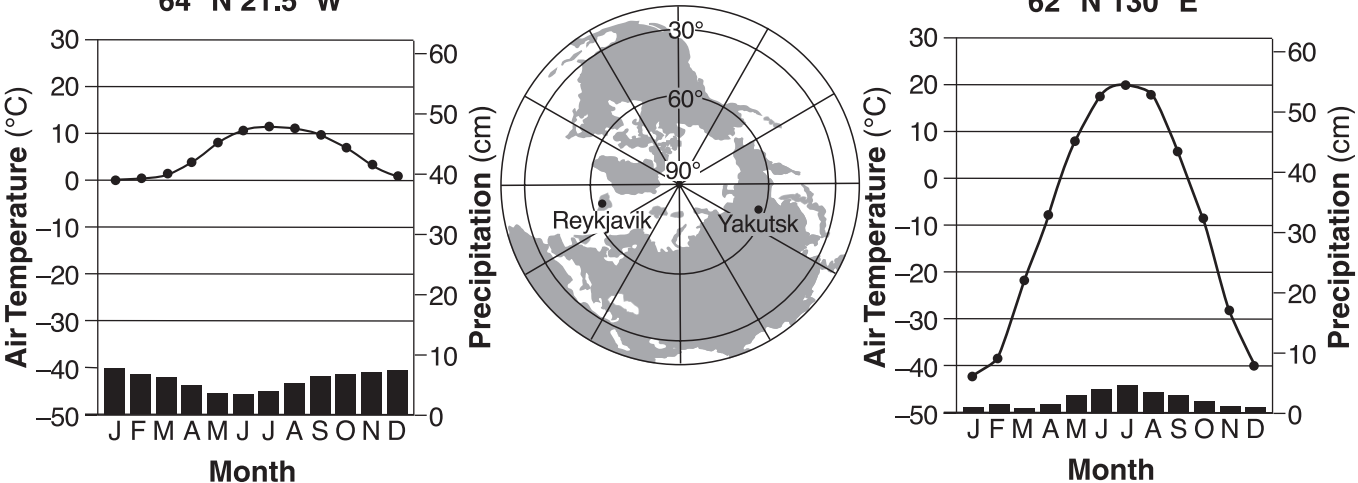

360
350
340
330
320
310
CO_2 Concentration (ppm)
1960
1970
1980
1990
Year


City A
Precipitation (cm)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
35
30
25
20
15
10
5
0
–5
–10
–15
–20
–25
–30
–35
–40
Temperature (°C)
J F M A M J J A S O N D
Month

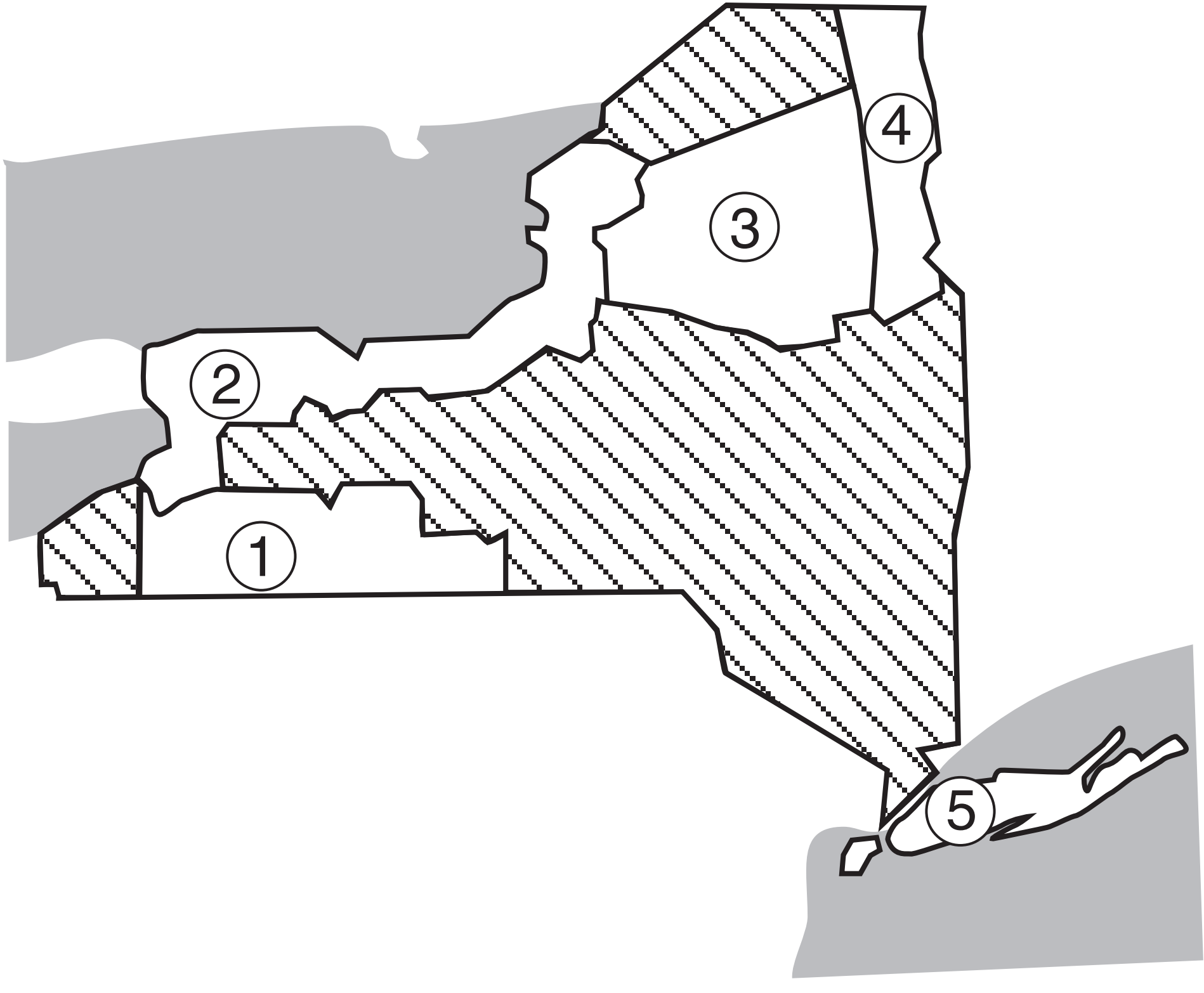

City B
Precipitation (cm)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
Temperature (°C)
35
30
25
20
15
10
5
0
–5
–10
–15
–20
–25
–30
–35
–40
J F M A M J J A S O N D
Month

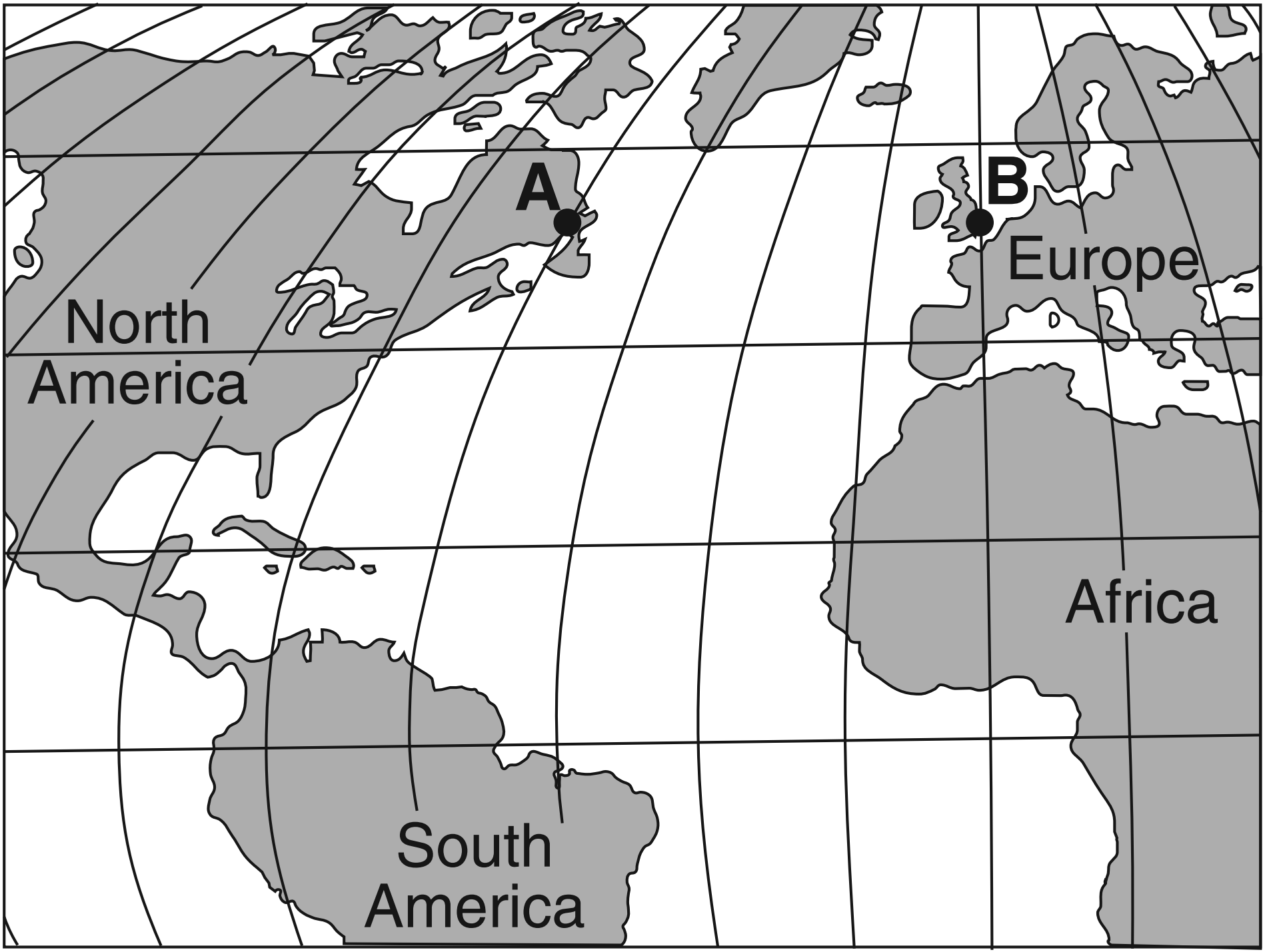

City C
Precipitation (cm)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
Temperature (°C)
35
30
25
20
15
10
5
0
–5
–10
–15
–20
–25
–30
–35
–40
J F M A M J J A S O N D
Month

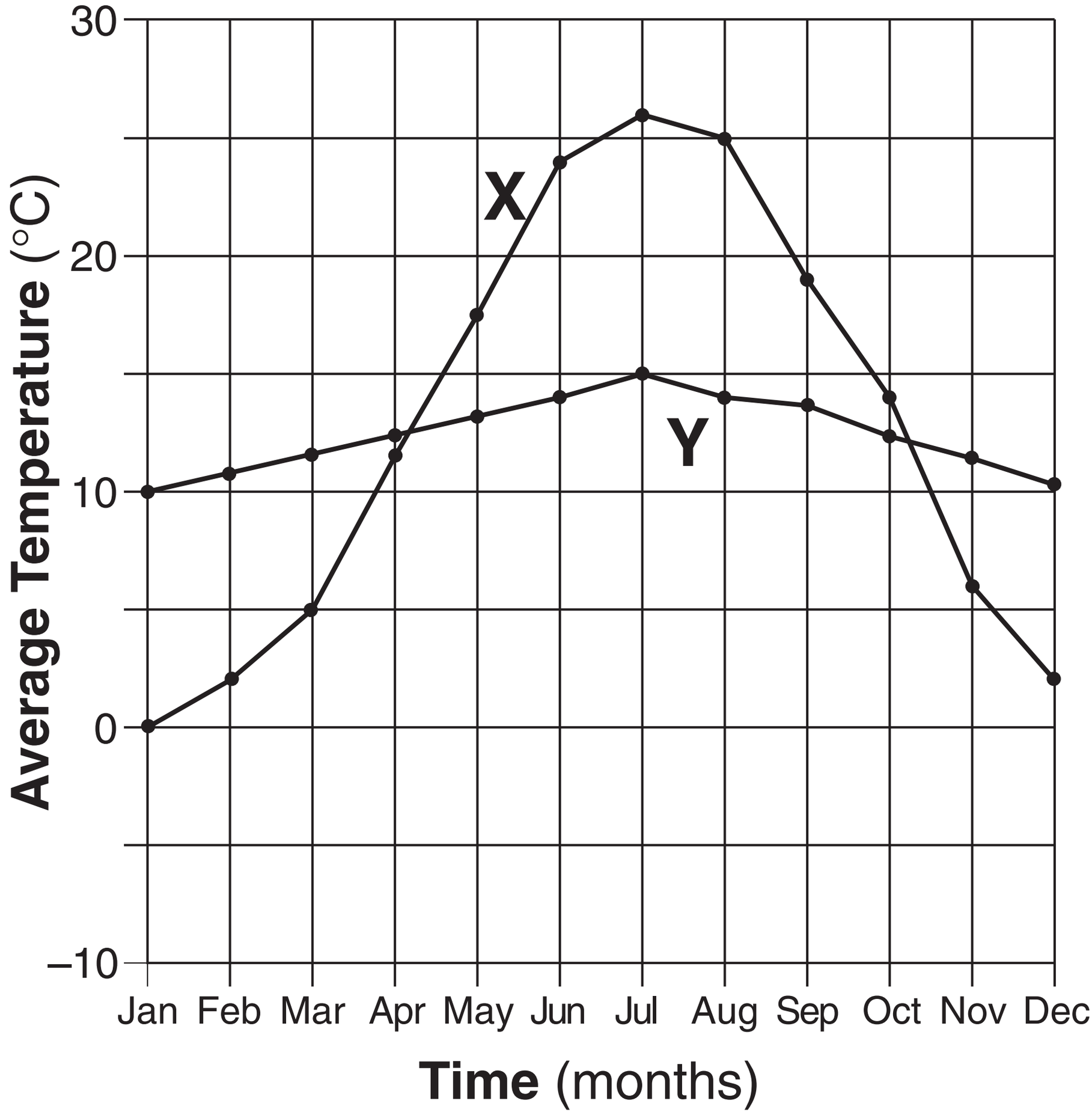

City D
Precipitation (cm)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
35
30
25
20
15
10
5
0
–5
–10
–15
–20
–25
–30
–35
–40
Temperature (°C)
J F M A M J J A S O N D
Month

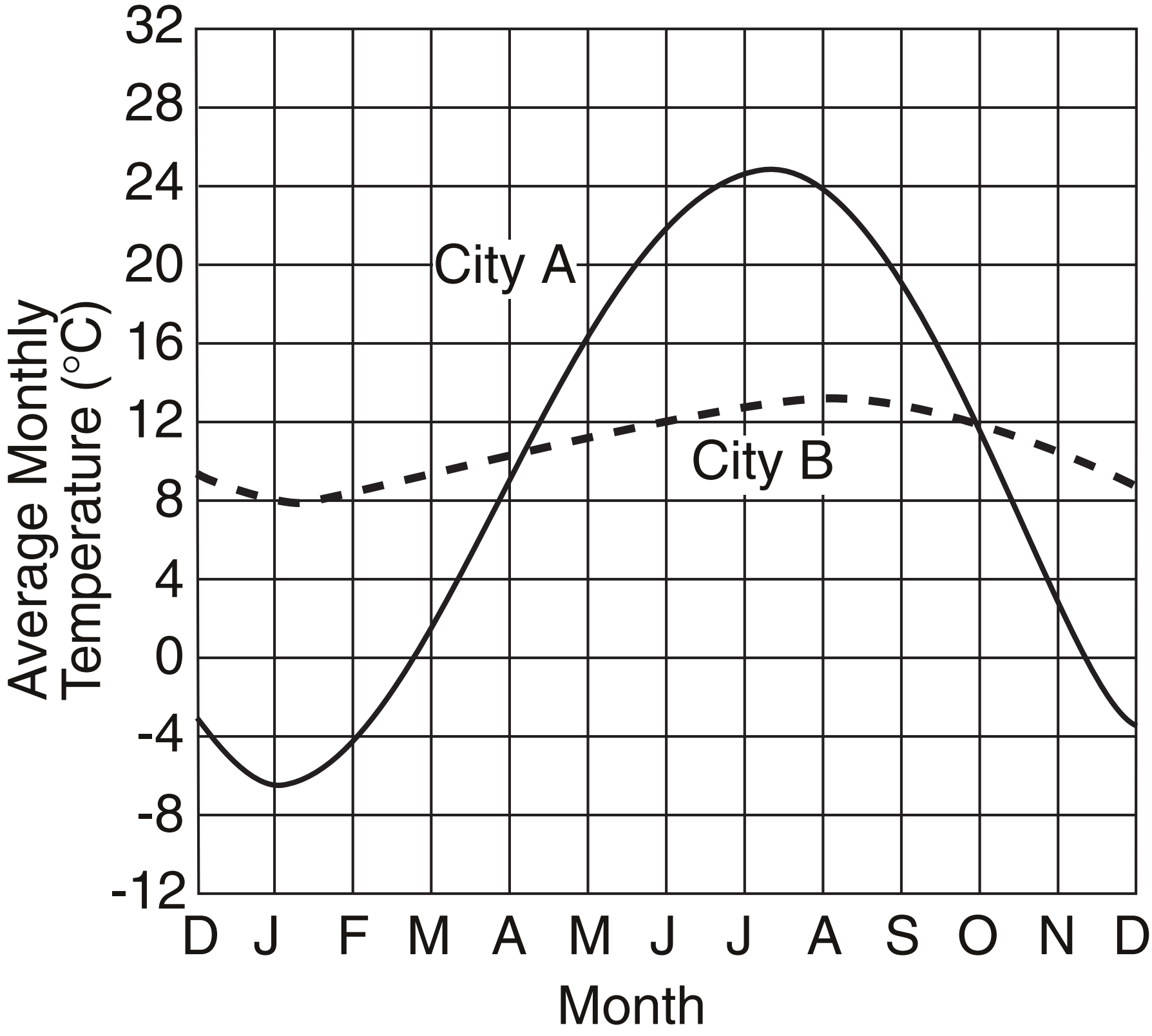

Reykjavik, Iceland
64° N 21.5° W
Air Temperature (°C)
Precipitation (cm)
30
20
10
0
–10
–20
–30
–40
–50
60
50
40
30
20
10
0
J F M A M J J A S O N D
Month
30°
60°
90°
Reykjavik
Yakutsk
Yakutsk, Russia
62° N 130° E
Air Temperature (°C)
Precipitation (cm)
Month

Some Climate Regions of New York State



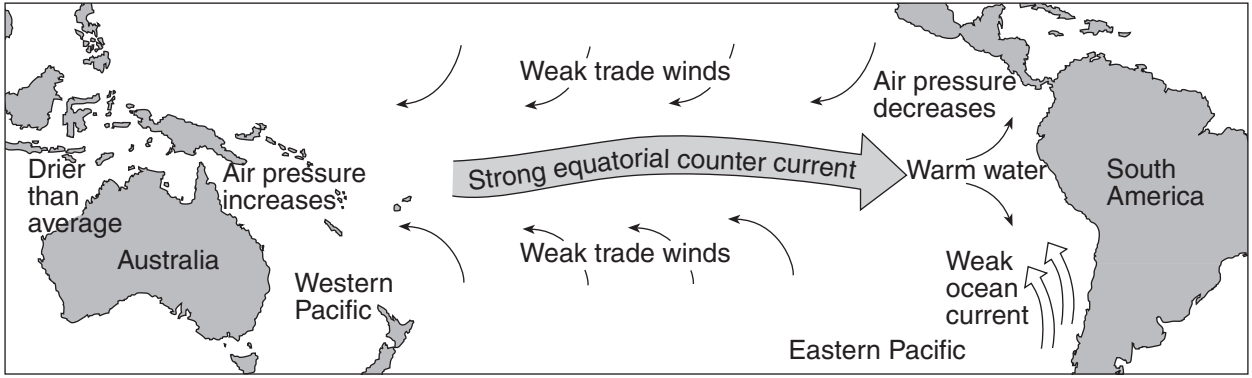

A
B
Europe
North
America
Africa
South
America


30
20
10
0
–10
Average Temperature (°C)
X
Y
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Time (months)

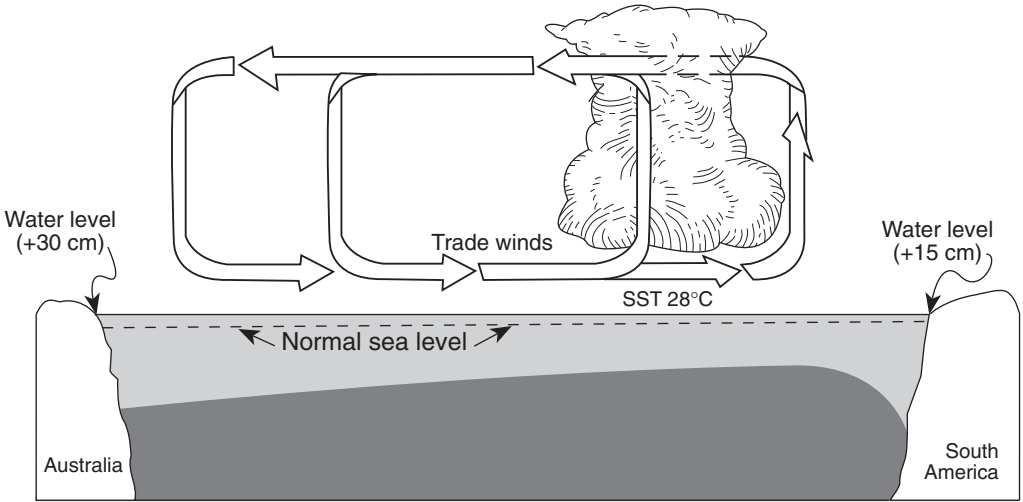

32
28
24
20
16
12
8
4
0
-4
-8
-12
Average Monthly Temperature (°C)
City A
City B
D J F M A M J J A S O N D
Month

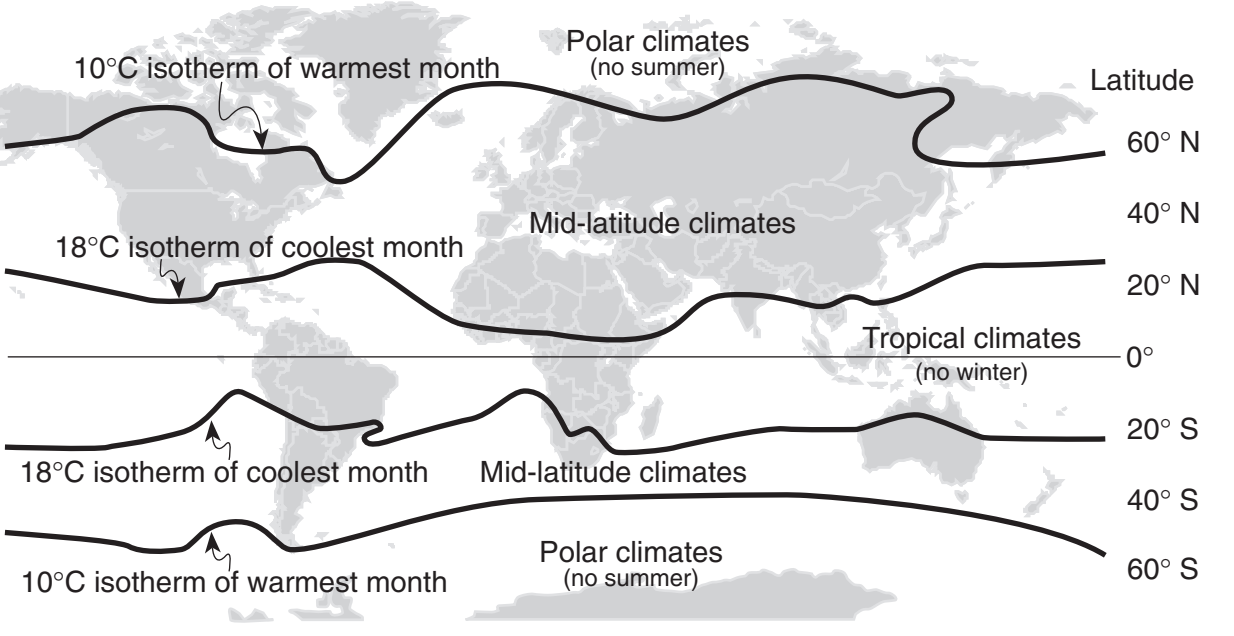
Virginia
Beach
Springfield
Atlantic
Ocean
N
Gulf of Mexico

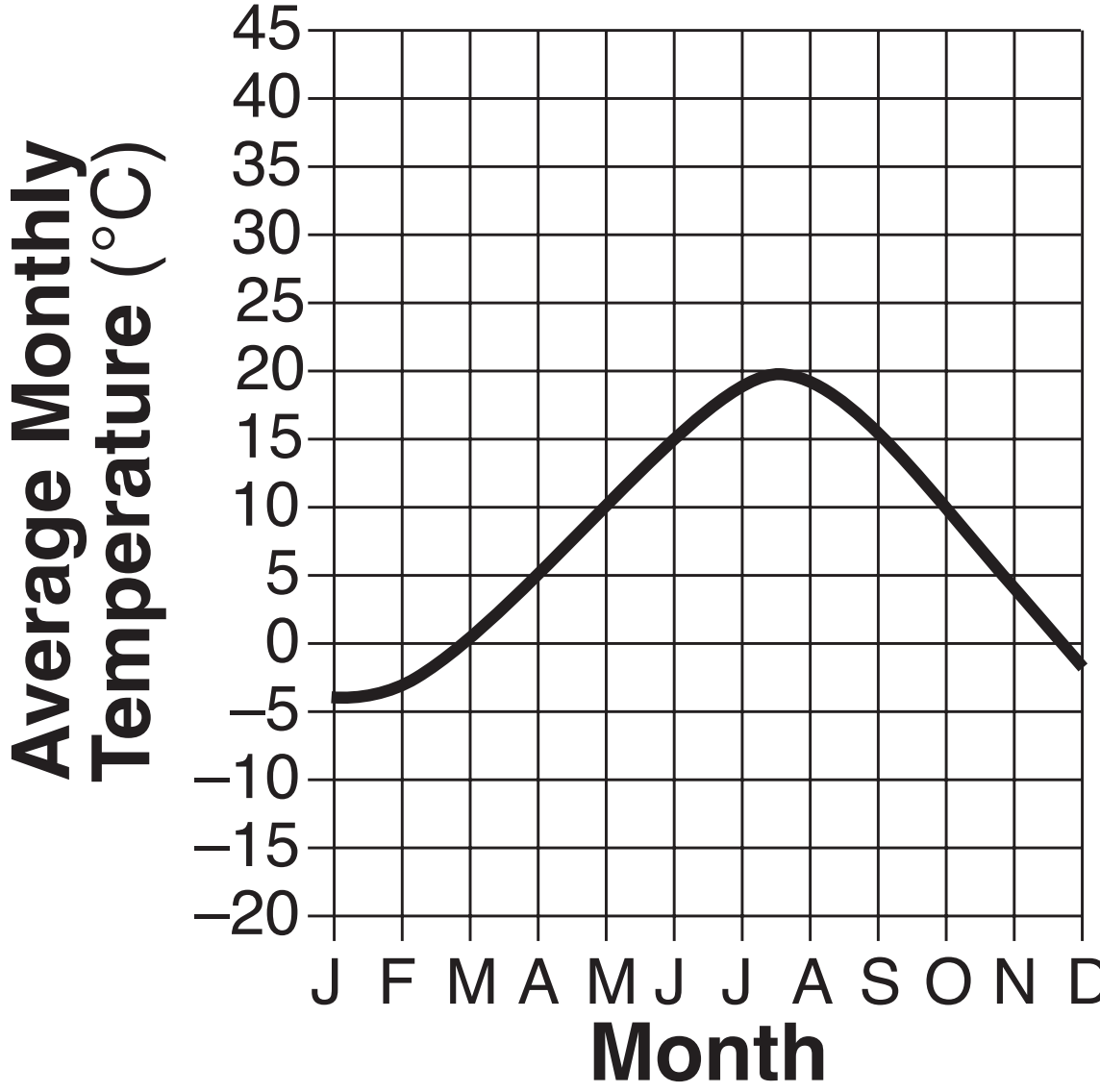
El Niño Conditions

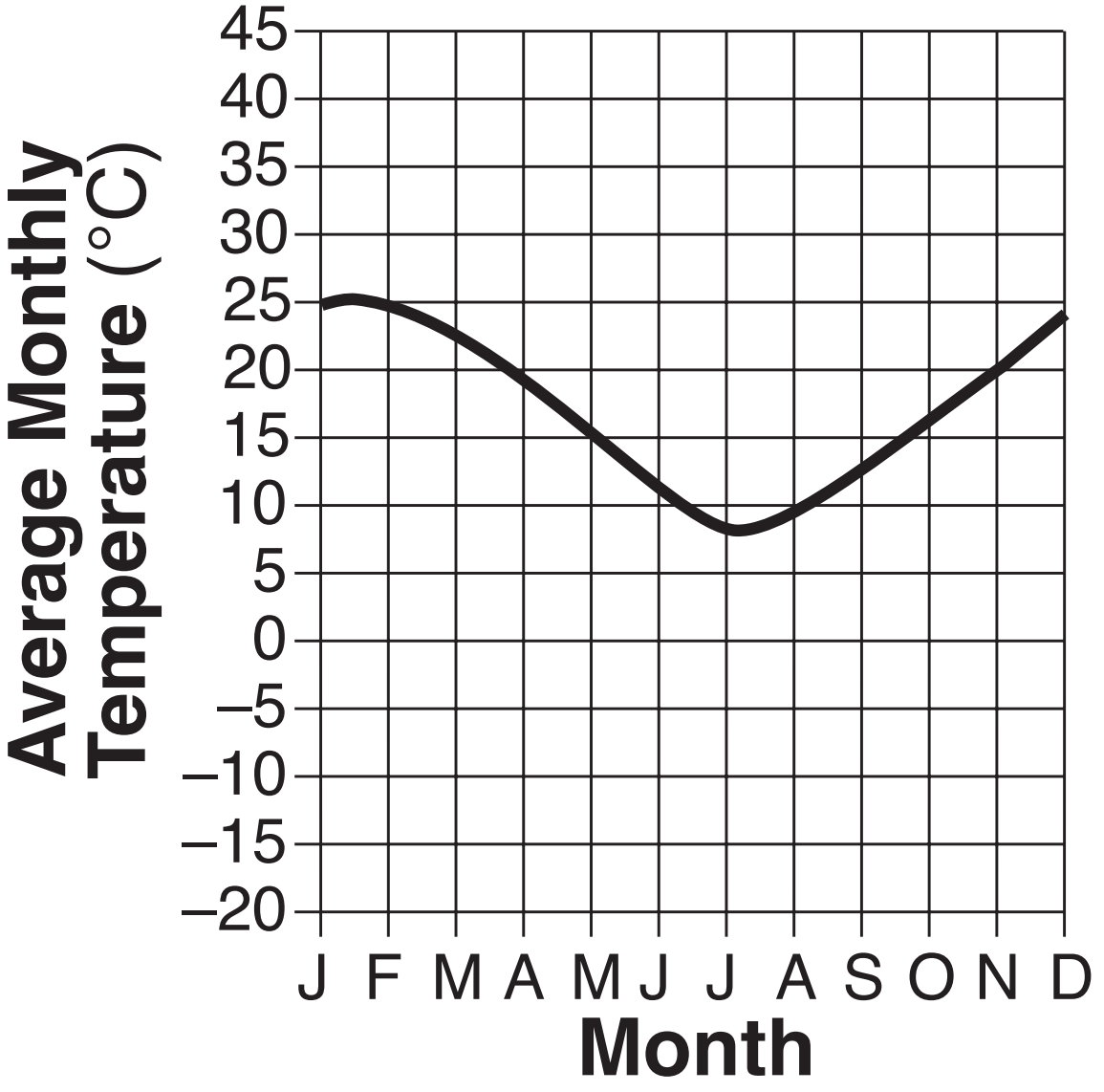


Cross Section B: El Niño Conditions

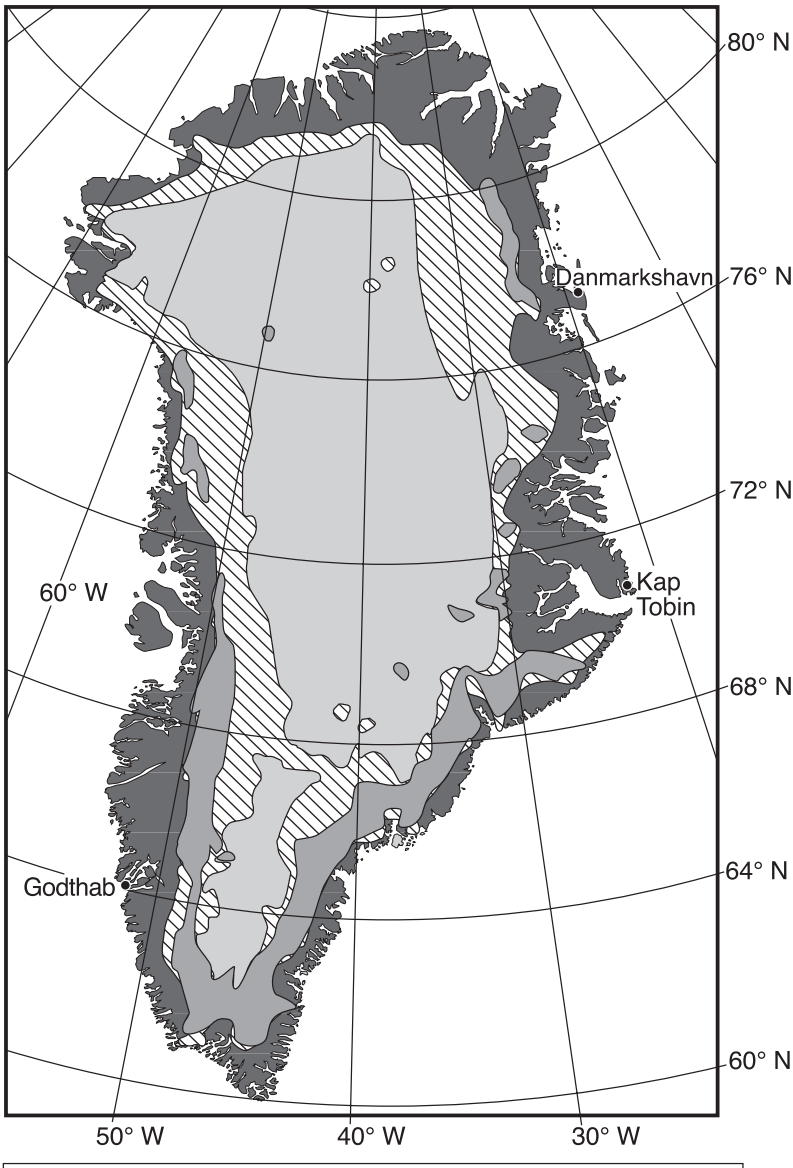


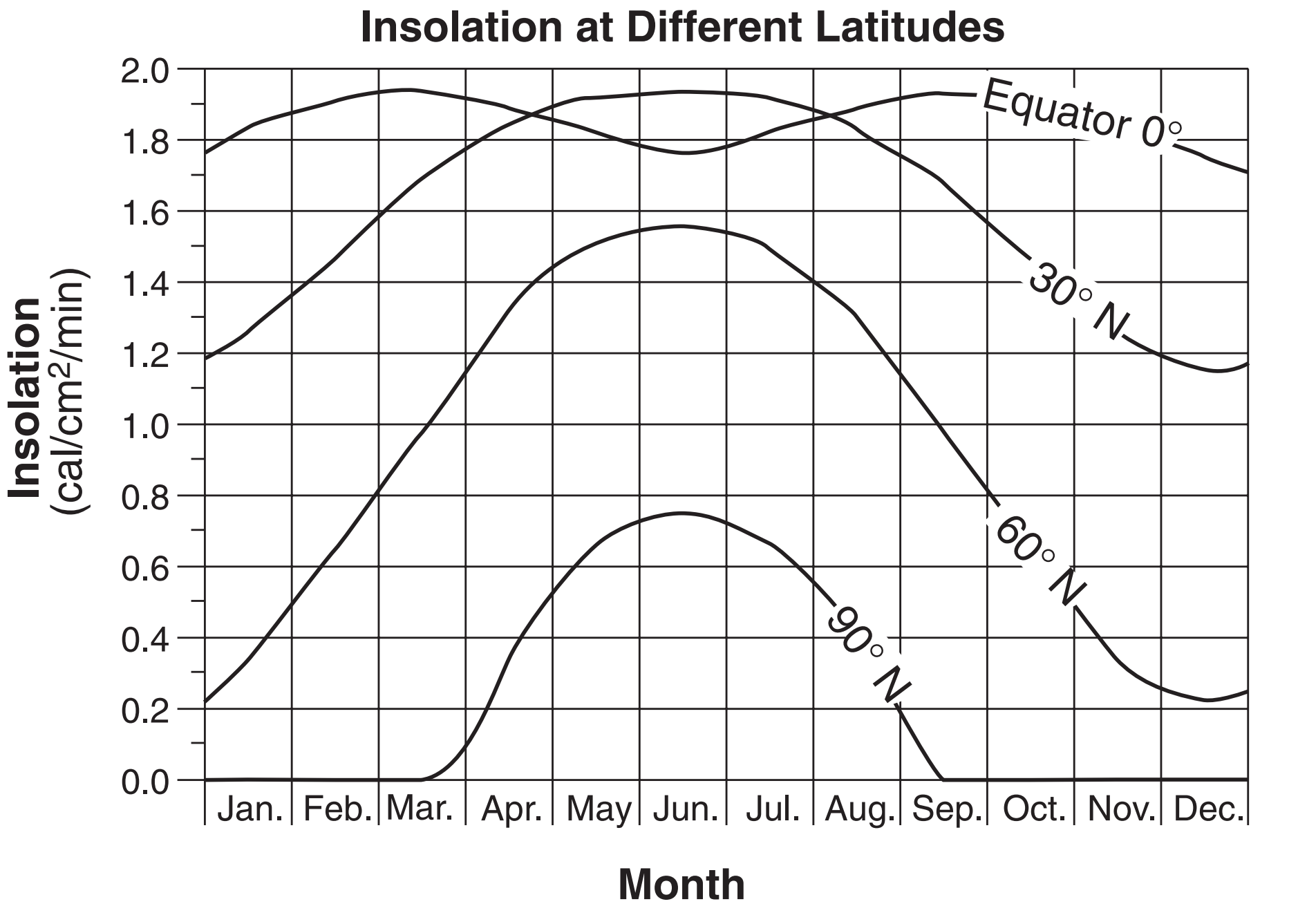

10°C isotherm of warmest month
Polar climates
(no summer)
Latitude
60° N
40° N
Mid-latitude climates
18°C isotherm of coolest month
20° N
Tropical climates
(no winter)
0°
20° S
18°C isotherm of coolest month
Mid-latitude climates
40° S
Polar climates
(no summer)
60° S
10°C isotherm of warmest month


Average Monthly Temperature (°C)
45
40
35
30
25
20
15
10
5
0
–5
–10
–15
–20
J F M A M J J A S O N D
Month

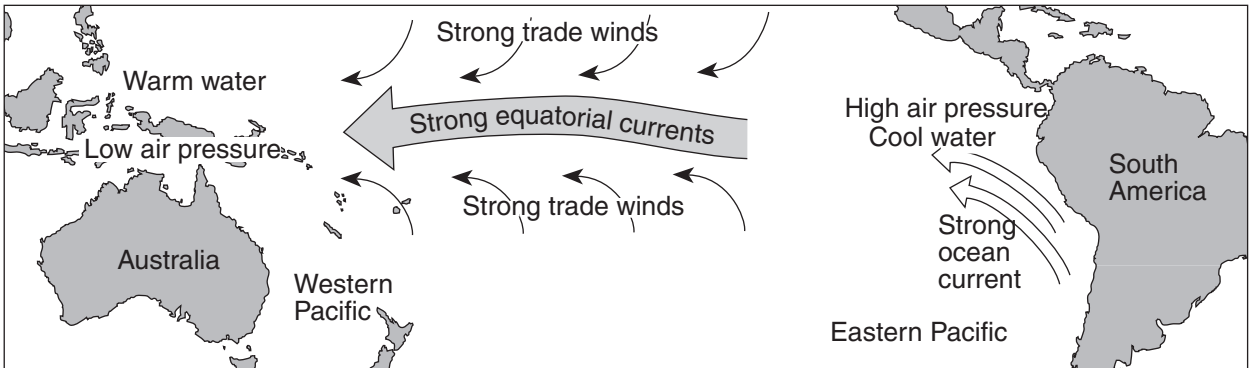

Average Monthly Temperature (°C)
45
40
35
30
25
20
15
10
5
0
–5
–10
–15
–20
J F M A M J J A S O N D
Month

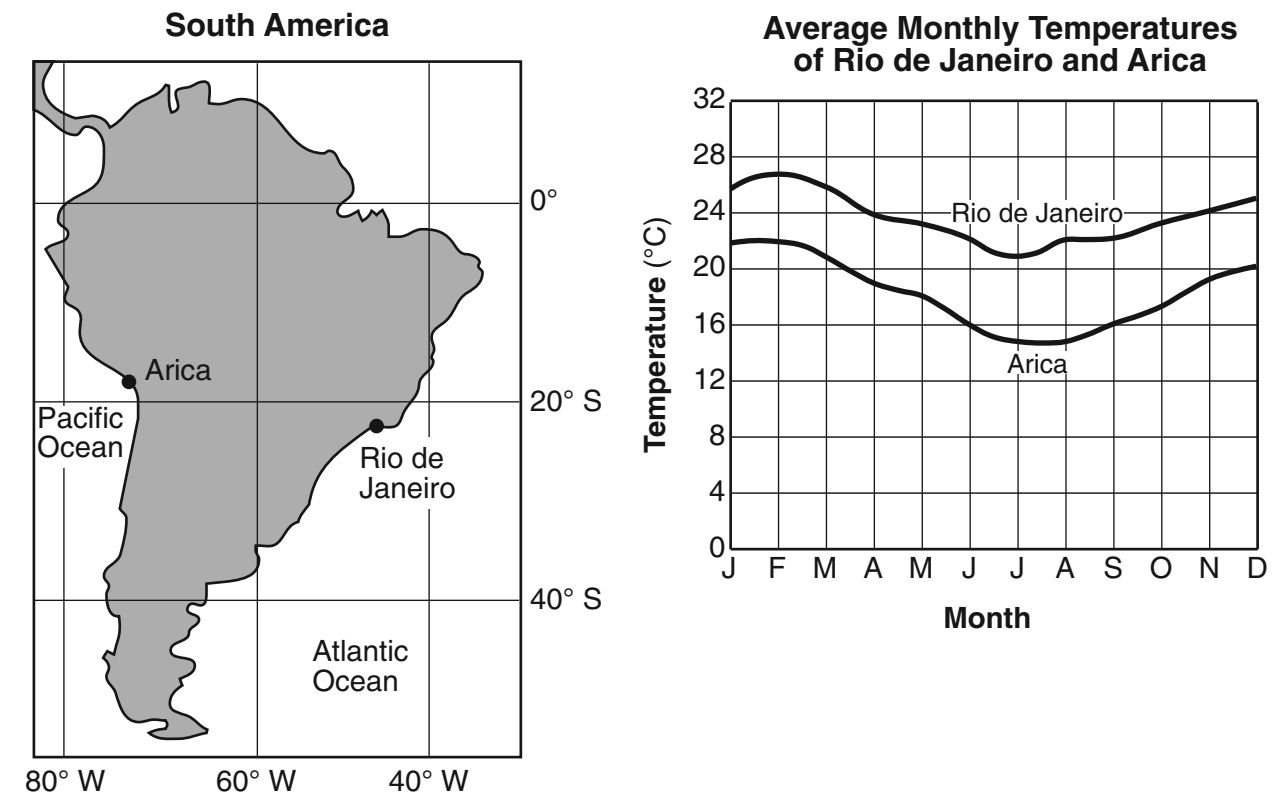
Greenland Summer Ice Melting



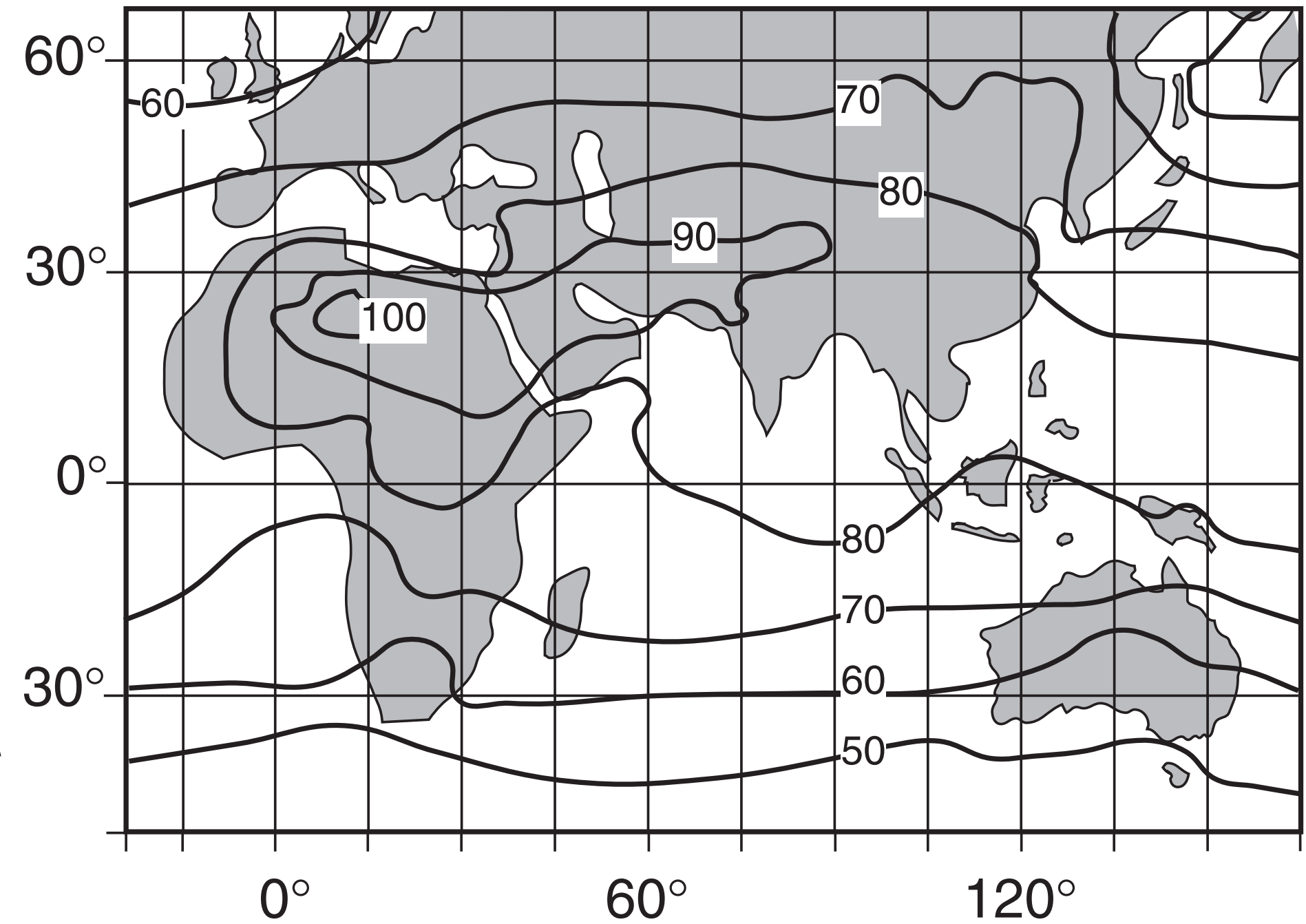

Insolation at Different Latitudes
Insolation
(cal/cm²/min)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Equator 0°
30° N
60° N
90° N
Jan.
Feb.
Mar.
Apr.
May
Jun.
Jul.
Aug.
Sep.
Oct.
Nov.
Dec.
Month

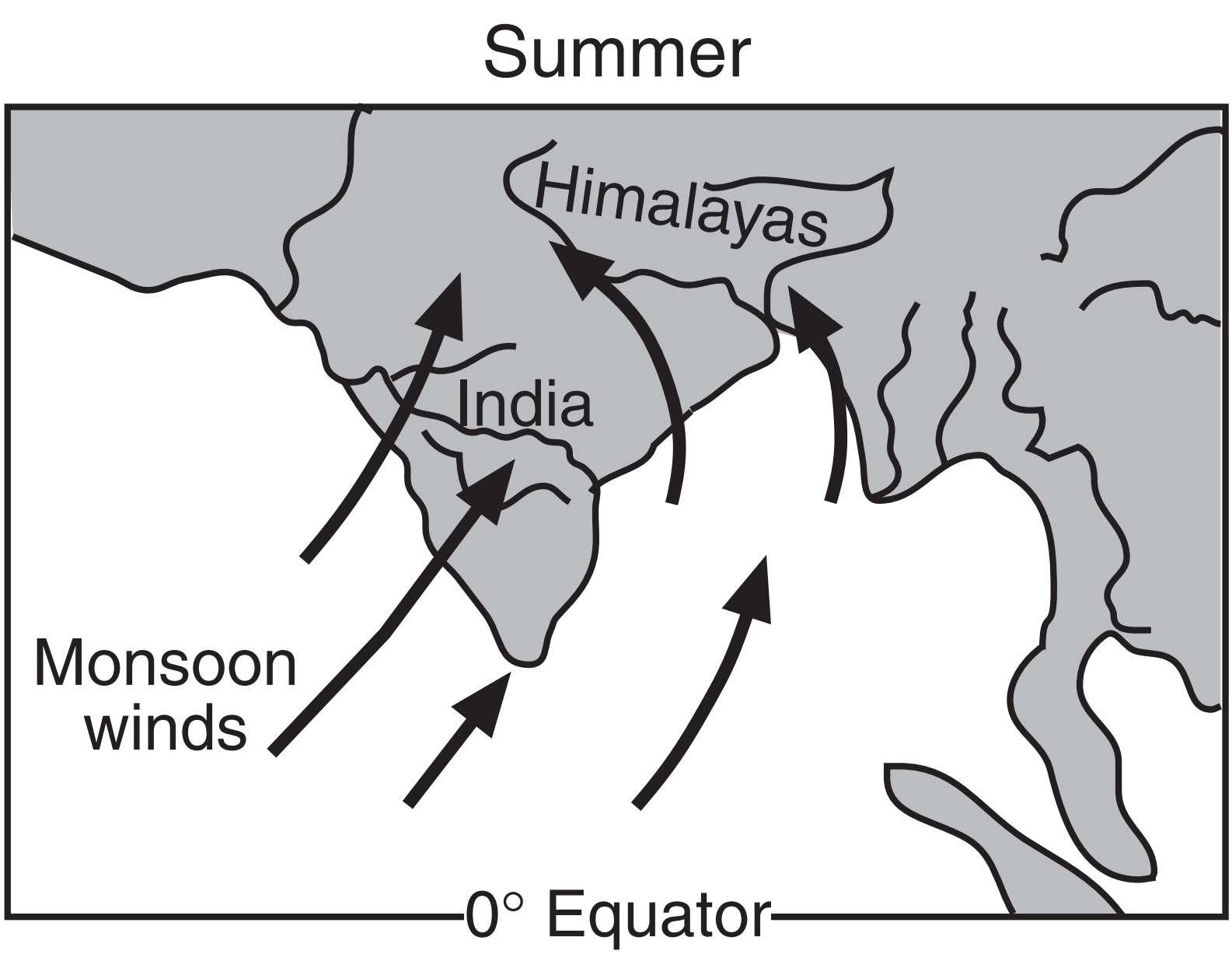
Normal Climate Conditions



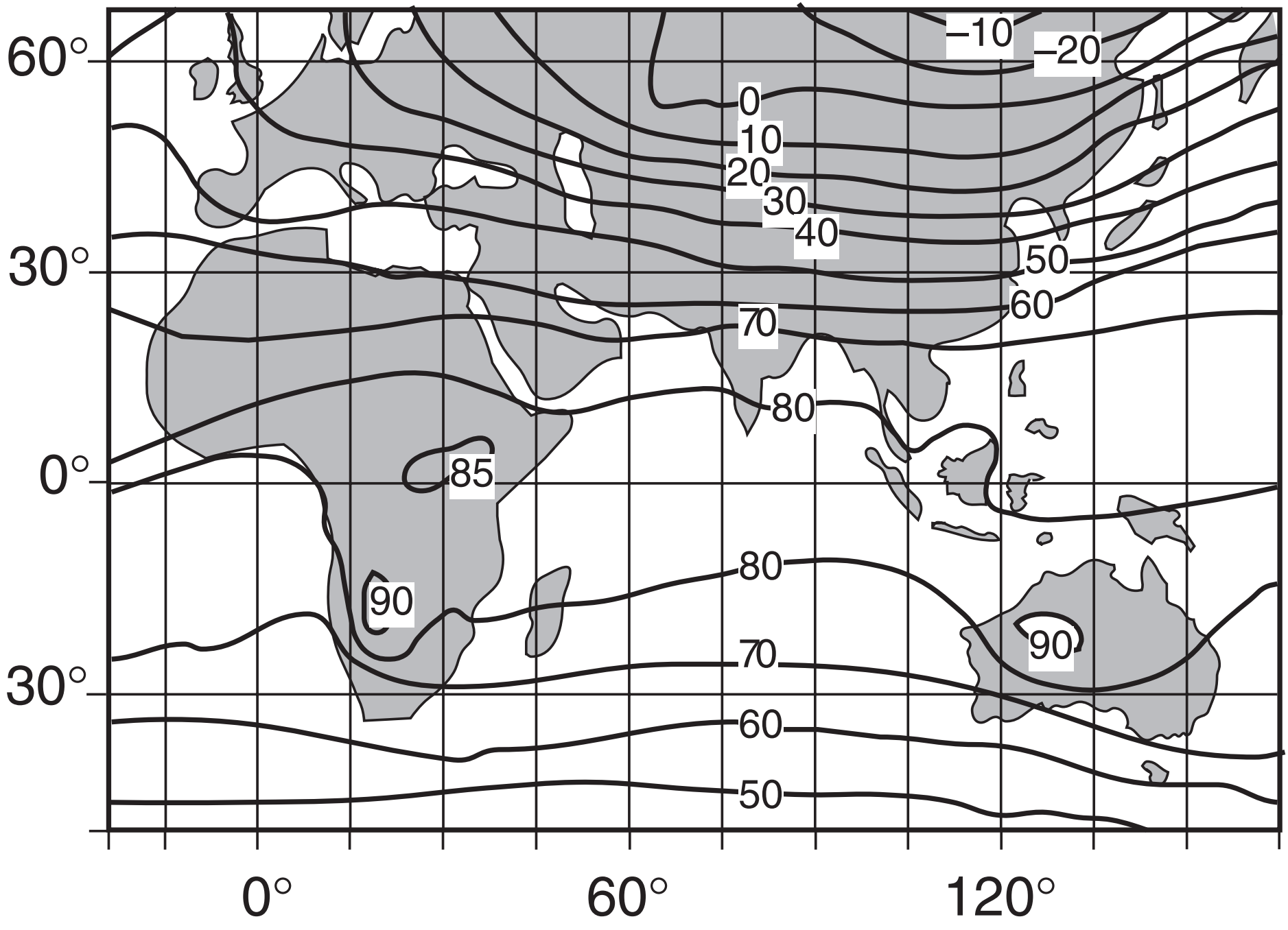

South America
0°
20° S
40° S
Arica
Pacific Ocean
Rio de Janeiro
Atlantic Ocean
80° W
60° W
40° W
Average Monthly Temperatures of Rio de Janeiro and Arica
Temperature (°C)
32
28
24
20
16
12
8
4
0
Rio de Janeiro
Arica
J F M A M J J A S O N D
Month

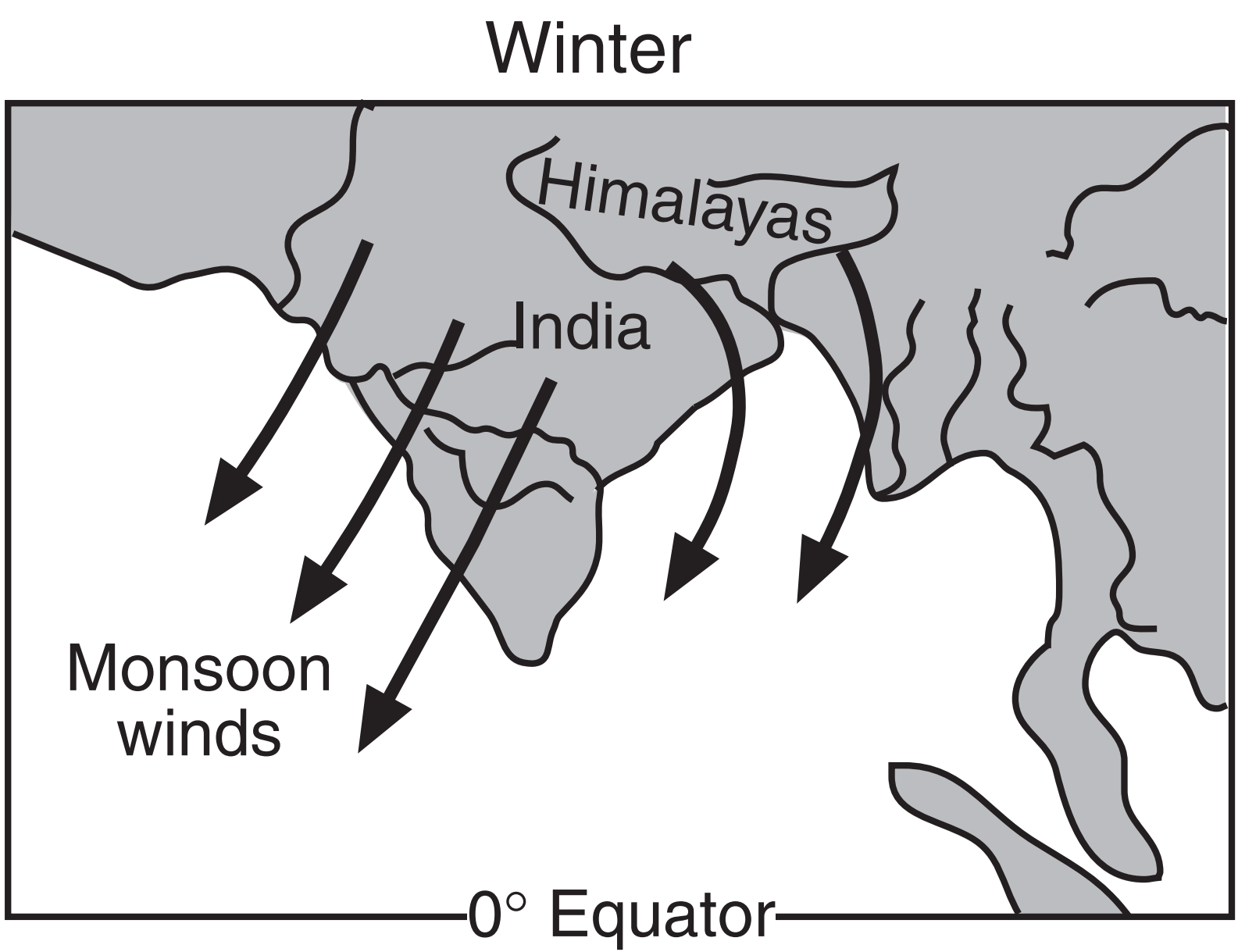
July Average Temperature (°F)




Summer
Himalayas
India
Monsoon winds
0° Equator

January Average Temperature (°F)




Winter
Himalayas
India
Monsoon winds
0° Equator