

NAME \_\_\_\_\_

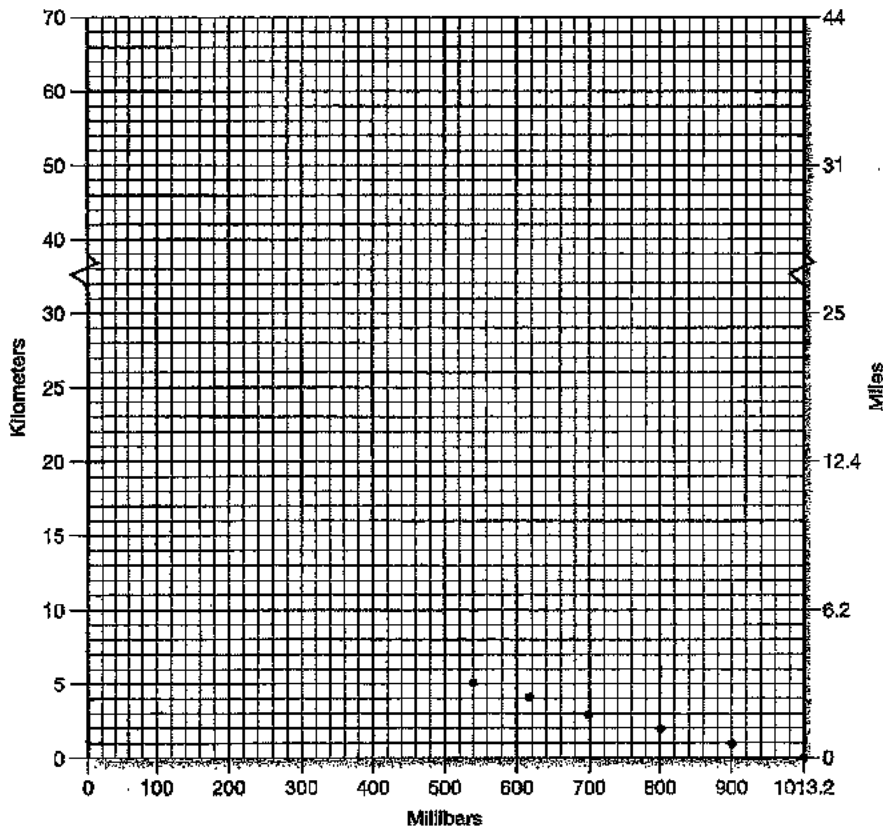
Section 1

To better understand the relationship between altitude and air pressure, you will create an atmospheric pressure profile graph.

- Using the information in Table 10.2, plot the appropriate altitude and pressure on the graph below. Then connect these points to create a curved line

Altitude (km)	Pressure (mb)	Altitude (km)	Pressure (mb)
0.00	1013.25	10.00	264.99
0.50	954.61	12.00	193.99
1.00	898.76	14.00	141.70
1.50	845.59	16.00	103.52
2.00	795.01	18.00	75.65
2.50	746.81	20.00	55.29
3.00	701.21	25.00	25.49
4.00	618.60	30.00	11.97
5.00	540.48	35.00	5.75
6.00	472.17	40.00	2.87
7.00	411.05	50.00	0.79
8.00	356.51	60.00	0.23
9.00	308.00	70.00	0.06

▲Table 10.2 Standard atmosphere for pressure and altitude



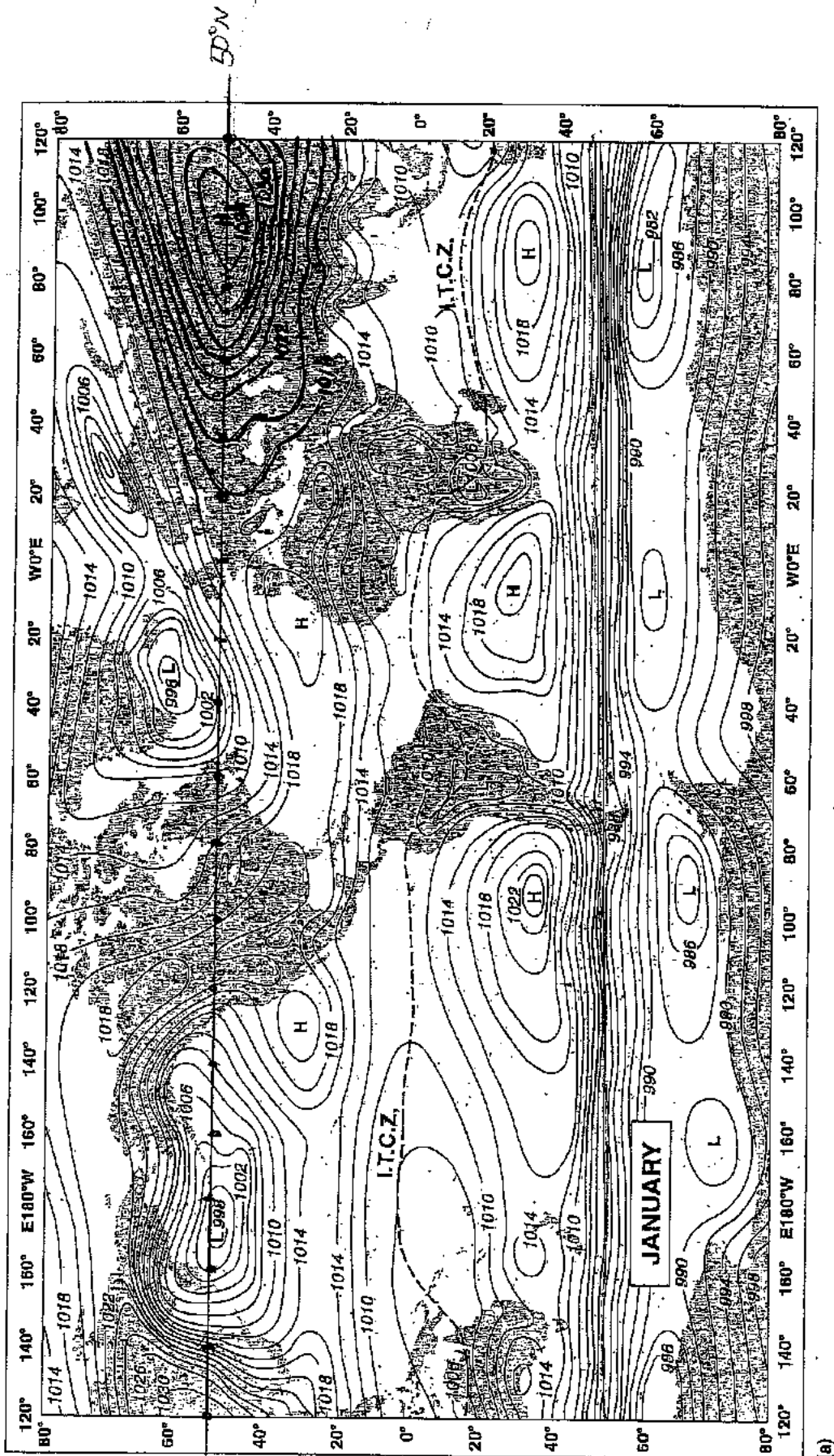


Figure 7.2  
Global barometric pressure for January

(a)

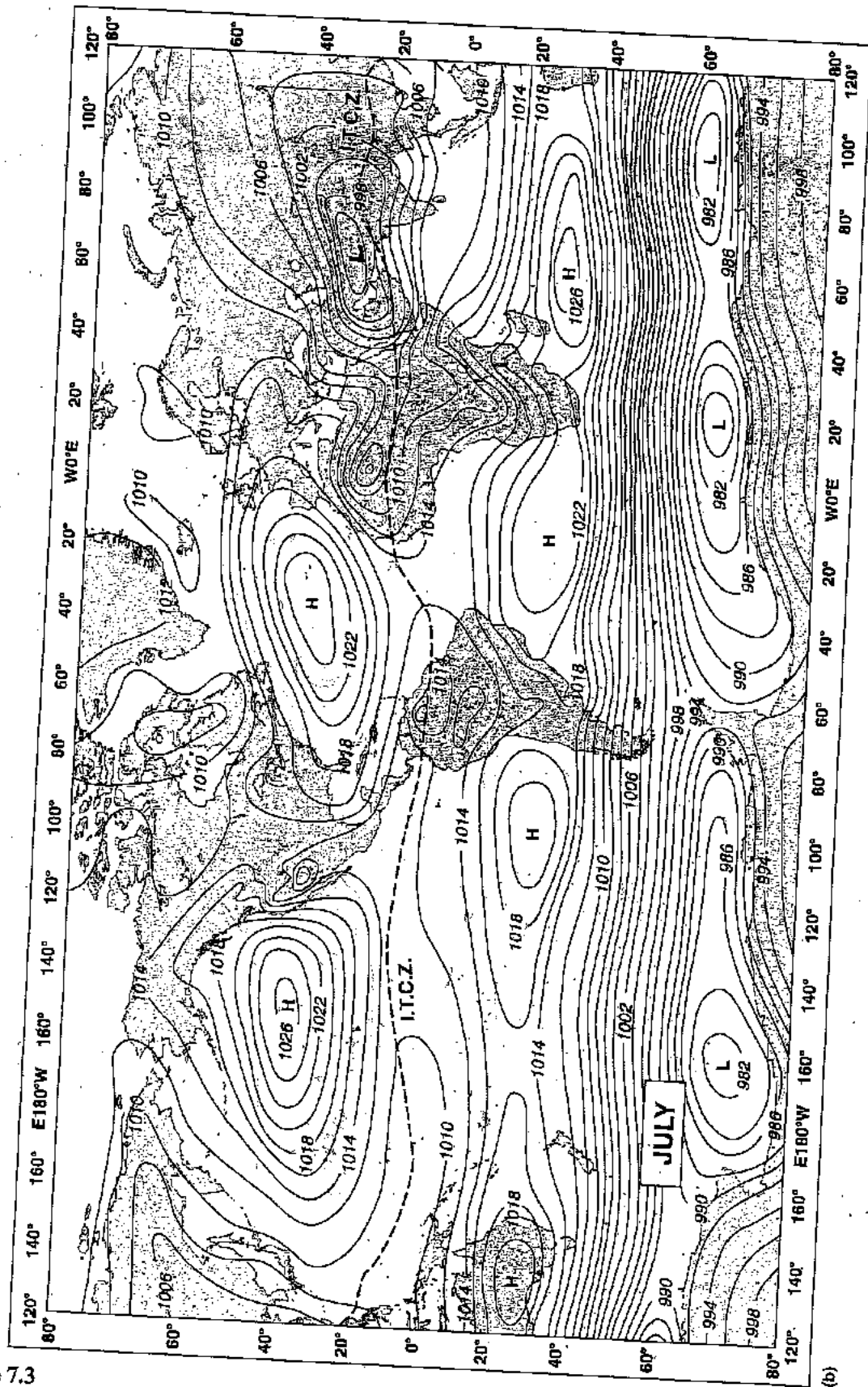


Figure 7.3  
Global barometric pressure for July

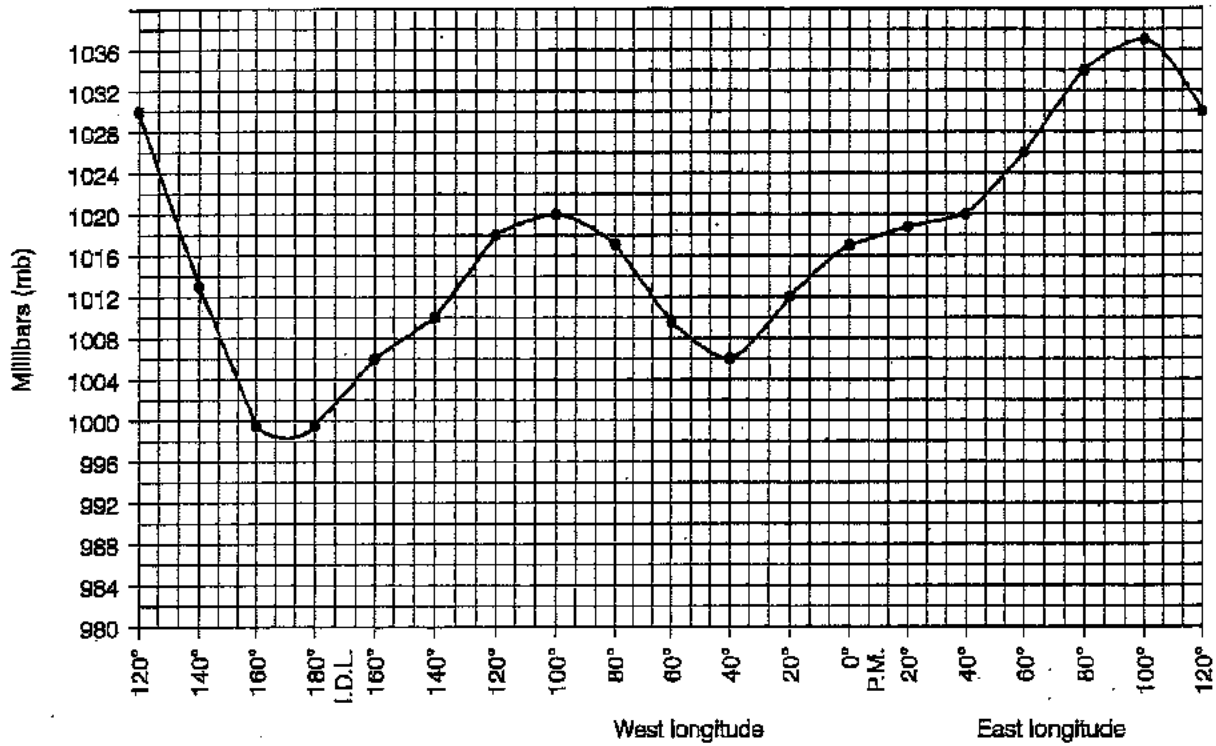


Figure 7.4a  
 (a) Plot of average air pressure along 50° N latitude for January.

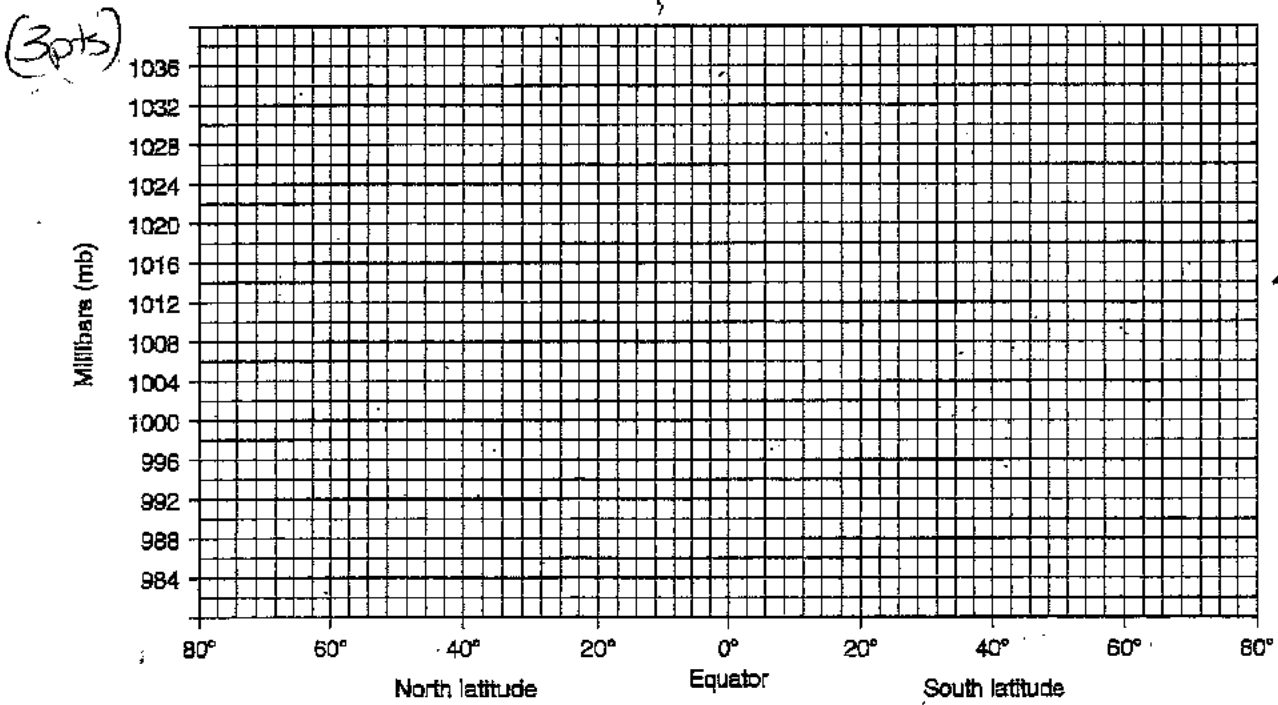


Figure 7.4b  
 (b) Plot of average air pressure along 90° W longitude for January.

3 pts

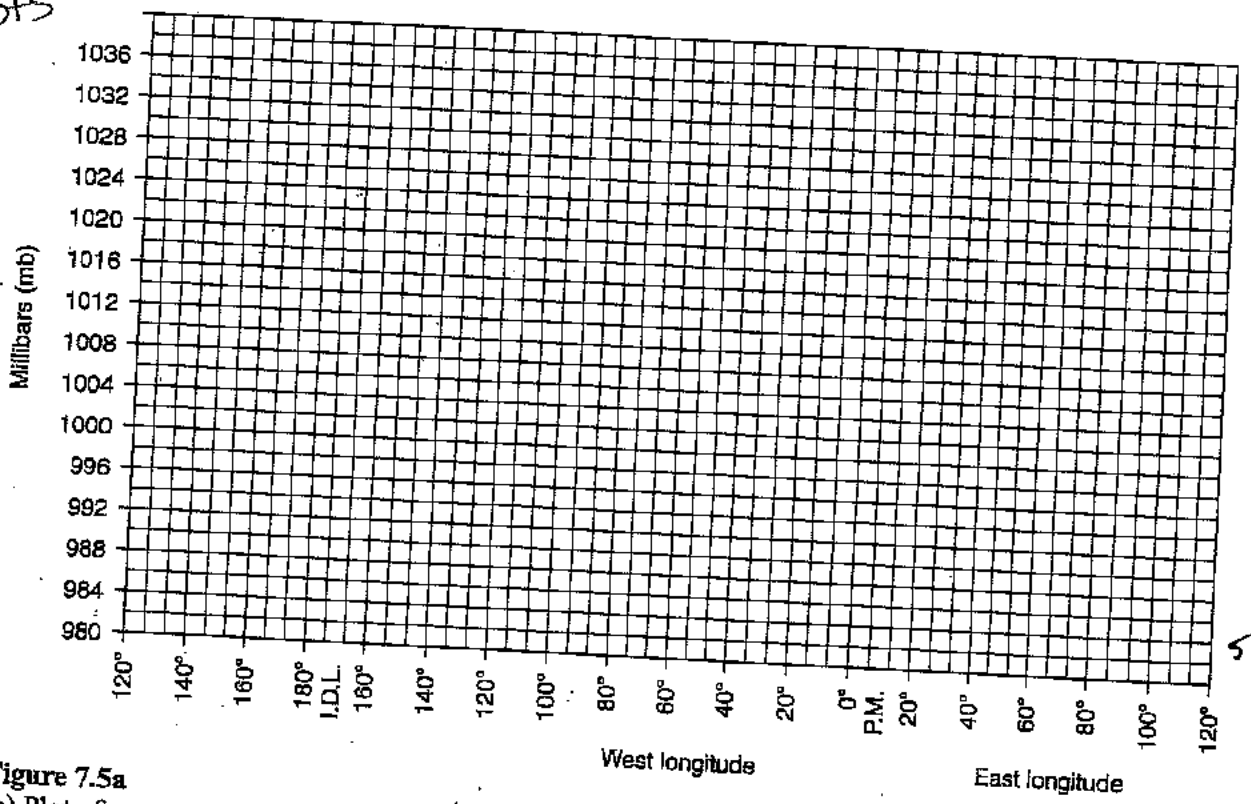


Figure 7.5a  
(a) Plot of average air pressure along 40° N latitude for July.

(3 pts)

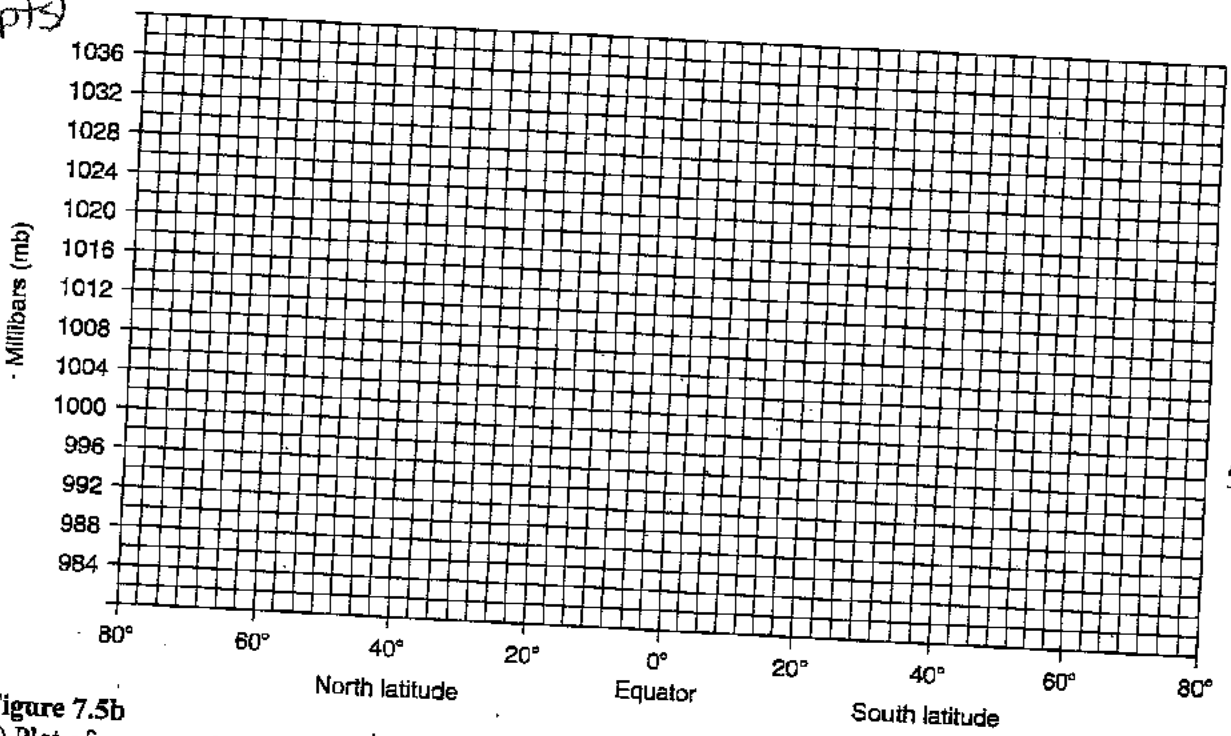


Figure 7.5b  
(b) Plot of average air pressure along 60° E longitude for July.