In Module 2 you learnt the effects on annual temperature if there was an increase in emissions in keeping with scenario A2. Mexico's climate is seasonal and varies according to which region is studied. Because the northern and southern hemispheres experience different seasons at different times of the year the months of the year are used in these graphs rather than the names of the seasons so that comparisons across the globe can be made.

# **ACTIVITY ONE**

This activity uses Graphic 8.1 to show the temperature changes during December, January and February, the winter season in Mexico. A larger version is available on the website.

# **GRAPHIC 8.1**

5 35.0	2,1 1.3	2.3 1.3	2.5 1.2 0.1	2.7 1.1 0.3	2.9 1,1 0.0	3.0 1.2	2.9 1.2	2.6 1.3	2.2 1.2	2.0 1.1	1.8 1.1	1.8 1.0 0.2	1.7 0.9 0.1	(°C)
0 32.5	2.0	1 22 T	2.3	2.4 1,1/ 0.3	2.7	2.9	3.0 1.2	2.8 1.2	2.4 1.1	2.0 1.0	1.7 0.9 0.1	1.7 0.9	1.7 0.9	+7.0
.5 30.0	1.8 1.1 0.1	1.2	2.0 1.4 0.2	2.0 1.3 0.4	2.3 1.1 0.3	2.5	1.2	2.6 1.1 0.0	1.0	0.9	0.9	3 1.7 0.9 0.1	1.8 0.8 0.2	+6.0
25.0 27	1.7 1.0 0.2	1.7 1.2 0.2	2.5 2.5	21.3 0.5	1.9 1.1 0.3	2.1 1.0 0.1	2.2 0.9 0.2	0.2	0.9 0.1	1.6 0.8 0.1	1,4 0.8	1,4 0,8 0,0	1,4 0,9 0,2	 +5.0
5	1.7 0.9 0.2	0.1	1.0	1.1 8.2	1.6 1.1 0.2	1.8 1.1 0.3	1.7 1.1 0.3	0.3	0.1	1.5 0.7 0.1	0.1	1.2 0.8 0.1	1.2 0.9 0.2	+4.0
20.0 22	1.7 0.9 0.1	1.6 1.0 0.1 1.5	1.5 1.0 0.1 1.3	1.3 0.9 0.2 1.2	1.1 0.3 1.5	1.8 1.3 0.4 2.0	1.7 1.2 0.4 2.0	2.2 1.0 0.4	0.8 3 2.0	0.2	1.4 0.8 0.2	0.3	1.2 0.9 8.3	 +3.0
17.5 2	1.6 0.9 0.1	0.9 0.1	0.9	0.9 0.2	1.0 0.4	0.4	1.2	2.0 1.1 0.4	1.	1.9 1.0 0.3	0.4	0.8 0.4	0.9	
15.0 1	0.9 0.3	1.0 0.3	1.0 0.3	0.9 0.4	0.9 0.5	0.9	1.0 0.6	1.0 0.5	1.1	1.9 1.2 0.6	1.1 0.6 1.3	0.5	1.0 0.6	+2.0
12.51	0.9 0.5 -147.1	0.9 0.5	1.0 0.5	0.9 0.5	0.9 0.6	1.0 0.5 05.0-10	1.0 0.5	1.0 0.5	1.0 0.5	1.0 0.6	0.6	0.7.0	1.6 Ans 7-185.0	 +1.0
			2.0						, 10 0	0.0 0	210 0	0.0 0		 +0.0

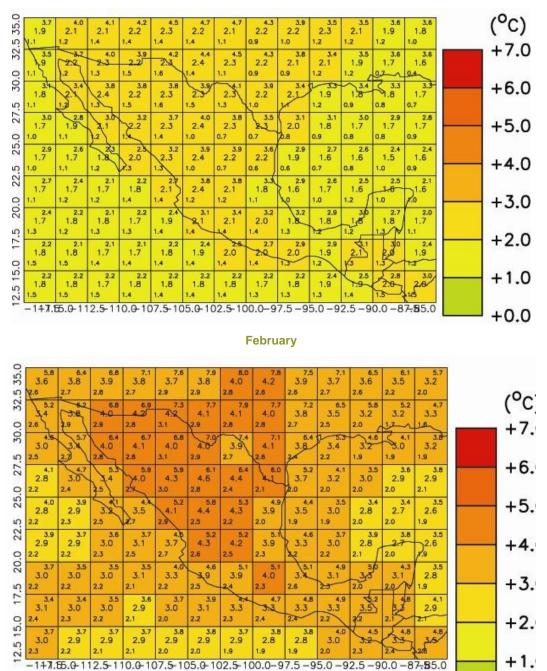
# December







#### January



- All values are temperature anomalies the variation compared to average temperatures from 1970 to 1999.
- Areas shaded deep red will be 7°C hotter than average temperatures from 1970 to 1999. Whereas, areas shaded green will be the same.
- The tiny numbers in the centre of each grid box is the average expected temperature; numbers in the upper and lower corners give the maximum and minimum temperatures. All the temperatures are in degrees Celsius.
- The numbers along the y axis are Latitude and the numbers on the x axis are Longitude
- 1. Which areas are most affected by the temperature changes in DJF?

## **ACTIVITY TWO**





+0.



This activity uses Graphic 3.2 to show the temperature changes during March, April and May. **GRAPHIC 8.2** 

(°C) 32.5 35.0 +7.0 2.8 1.3 2.9 1.1 3.0 3.0 1.3 2.3 1.2 1.2 1.4 1.4 1.4 1.4 1.3 0.8 0.7 0.7 0.8 0.7 0.6 0.7 0.7 0.8 0.8 0.7 0.7 0.6 1.9 2.7 2.3 2.3 2.4 2.3 2.2 2.2 2.2 2.7 2.9 3.0 2 1.4 +6.030.0 0.4 5 0.7 0.8 1.0 .9 8.0 0.9 0.7 0.6 0.5 1.3 2.6 1,4 2.3 1.4 1.8 2.8 2.6 2.3 20 1.9 5 1.9 1.5 0.8 1.4 1.7 1,1 1.2 +5.027.5 0.5 0.1 0.6 1.1 1.2 1.1 3.8 0.4 0.4 0.4 0.4 2.5 2. 1.6 0.7 1.2 1.4 2. 1.6 0.8 0.9 0.9 0.9 1.0 15 1.1 0.9 25.0 0.7 0.0 0.5 1.2 1.1 0.3 0.3 0.4 ... 0.2 1.1 15 0.2 +4.02.7 2.6 1.5 1.6 0.9 1.4 1.5 0.8 1.3 2.3 1.6 1.0 1.5 0.9 1.5 1.6 0.9 1.0 22.5 0.9 0.7 0.1 1.2 1.1 0.4 0.4 0.4 0.4 0.6 +3.01.0 2.5 2. 1.4 1.2 2.0 1.4 2. 2.2 1.7 20.9 Ø.6 0.8 0.9 0.9 1.1 1.5 1.4 10 20.0 .... .... 0.2 0.6 1.1 0.9 0.4 0,6 0.6 ... 1.1 1.3 0.9 2.0 2.3 1.4 2.2 15 1.9 1.3 1.3 2.5 2.5 1.2 +2.00.8 0.8 0.9 0.9 1.4 0.9 17.5 0.0 0.3 0.7 1,0 0.8 0.8 0.6 2.0 2.0 1.2 2 1.9 1.6 0.8 0.8 0.8 0.8 0.8 0.9 1.1 1.2 +1.012.5 15.0 0.1 0.3 0.6 0.8 0.8 0.9 0.9 0.6 1.2 1.0 1.2 1.3 0.8 1.2 1.8 0.8 0.9 0.9 0.9 0.8 1.0 A +0.00.9 0.3 0.7 0.7 0 0,1 0.1 0.2 0.4 0.6 0.7 0.8 -1+7.65.0-112.5-110.0-107.5-105.0-102.5-100.0-97.5-95.0-92.5-90.0-87-85.0

March

Α	p	r	İ	l

2.6	3.7 2.7	3.8 3.1	4.0 3.2	3,4	4.5	4.6 3.4	3.2	4.3 2.9	4.0 2.7	3.8 2.7	3.7 2.6	3.5 2.5	( + <sup>*</sup>
.3	1.6	1.8	1.9	2.1	1.9	1.7	1.7	1.7	1.7	1.6	1.5	1.5	
2.8	2:6	3.7	3.9 3.2	4.3 3.2	4.5 3.5	4.7 3.4	4.8 3.2	4.2 2.9	3.9 2.7	3.6 2.5	3.5 2.4	3.5 2.4	 +
2	2.5	1.8	1.9	2.0	2.0	1.9	1.9	2.0	2.0	1.8 2	122	18	<b>T</b>
2.5 1.6	2.2	2.7	3.8 3.2 1.8	4.1 3.3 2.1	3.3	3.4	4.2 3.1 2.0	2.7	2.3	2.1	2.1 1.6	3.0- 2.1 1.6	+
2.8 1.5	2.9	1.2	2.8	3.8	4.0	3.9 3.3	3.0	2.3	2.8	2.7 1.9	2.6	2.5	
1.5	0.9	).1×	1.5	3.2 2.2	3.3 2.4	2.5	2.2	1.7	1.6	1.9	1.8 1.5	1.9 1.4	 +
2.8 1.5	2.9 1.6	1.8	2.3	3.8	3.9 3.3	3.6 3.2	3.1 2.7	2.7 2.1	2.4 1.8	2.2	2.1 1.7	2.1 1.8	1 + 4
.7	0.8	0.9	1.3	1.9	2.5	2.5	2.1	1.6	1.4	1.5	1.5	1.4	
2.8 1.5	2.8 1.6	2.8 1.7	2.7 1.9	2.5	3.7 2.9	3.4 3.0	2.9	2.9	2.8 1.8	2.4	2.3	2.1	 +.
.8	0.7	0.8	1,1	1.5 }	2,1	2.2	2.2	16	1,5	1.4	1.5	13	
2.7 1.6	2.7	2.6 1.7	2.4 1.8	2.5	2.9	3.4 2.8	3.9 2.9	2.8	3.4 2.4	30	2.6	2.0 1.8	 +:
1.0	0.7	0.8	0.9	1.1	1.8	22	2.1	1.9	1.7	1.7	1.6 N	1.3	
2.4 1.7	2.4 1.7	2.3 1.7	2.2 1.7	2.1 1.9	2.3 2.0	2.7	3.1	3.2 2.4	3.0 2.6	222	29	2.6 2.0	
.9	0.8	0.9	0.9	0.9	1.1	1.5	1.9	1.5	1.9	2.6 V.B	1.85	1.5	+
2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.1 1.9	2.4	2.8	2.8	3.1	
1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	2:0~	22	10	<sub>+(</sub>

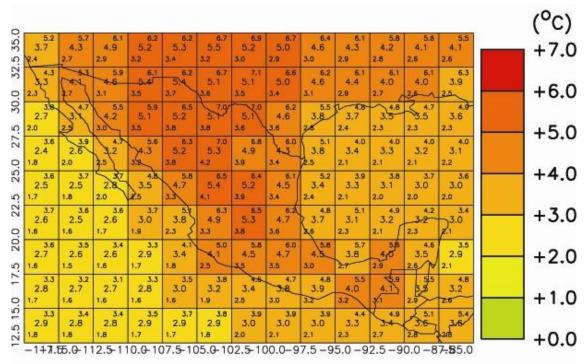




RMetS



### May



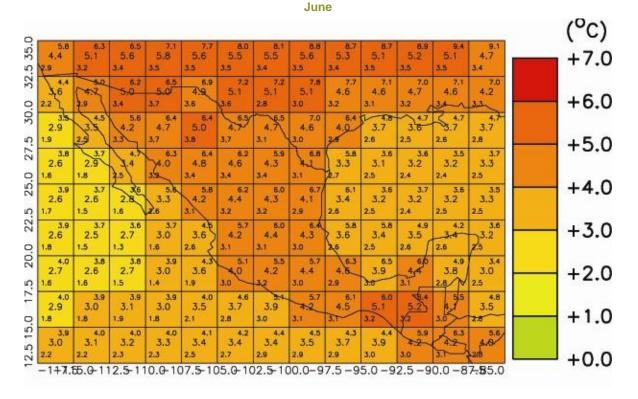
1. Which areas are affected most?

2. What is the average temperature increase for each decade shown at each of the locations studied in Module 1?

# **ACTIVITY THREE**

This exercise uses Graphic 8.3 to look at the temperature changes during June, July and August.

**GRAPHIC 8.3** 





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# July

~													(°C)
0.925 1.3	2.5 1.5	2.4 1.6	2.6 1.7	2.7 1.8	2.7 1.6	2.9 1.7	2.7 1.8	2.8 1.7	2.8 1.6	2.8 1.6	2.8 1.5	2.8 1.3	
32.5	0.9	1.0	1.2 2.6	1.3	1.0	0.8	0.9	1.0	0.9	1.0	1.0	0.9	+7.0
NO	(1.3	1.5	1.7	1.5	1.6	1.6	1.6	1.6	1.6	1.5	1.4	1.3	
0.0.3	1.5	1.1	2.4	1.2	2.3	0.8	2.2	2.1	0.8	0.8	5	1.0	+6.0
0.7	2.3	1.3	1.5 1.0	1.6 1.3	1.8	1.7	1.5	1.2	0.7	1.2	0.8	1.2 0.8	
0.7	0.7	1.5	1.8	1.9 1.5	2.0 1.5	2.2 1.6	2.6	2.3	1.3 1.0	1.4 1.0	1.2 1.0	1.3 1.1	+5.0
0 0.1	0.2	2.5	0.8	0.9	0.7	0.5	0.8	20.7	0.5	0.6	0.7	0.7	
52 0.6	1.2 0.6	0.2	0.9	1.3	2.0 1.4	2.1 1.6	3.0 1.4	2.7	1.3	1.4	1.0	1.2 1.0	+4.0
1.3	0.0	0.2	8.6	0.8	0.9	0.9	0.9	0.7	0.5	0.6	0.7	0.8	
0 +**	0.7	0.8 0.0	0.8	0.8	1.3	1.5	1,4	1.2 a.6	1.0	1.1 0.6 /	0.6	B.7	+3.0
0 0.7	1.1 0.8	1.1 0.8	1.2 0.9	1.4	1.9	1.9 1.3	2.1 1.4	1.2.2	2.1 1.5	1,0	1.7	1.2 1.0	
<u></u>			0.2	0.6	0.9	0.8	0.8	0.7	0.7	0.7	0.7 N	0.6	+2.0
0.8	0.9	0.9	1.3 0.9	1.5 0.9	1.9	1.1	1.2	1.3	1.4	1.5	210	1.4	
0.1	0,1	0.1	0.3	0.5	0.7	0.9	0.9	0.8	0.8	0/8	0.7	0.7	+1.0
0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1 0.8	1.1	1.1	1.1	0.5	1.2	
2 0.4 -1+7.	0.4 165.0-11												+0.0
							Aug						
													(90)
													(°C)
0.95	3.8 3.2	4.0 3.6	4.3	4.8 3.5	5.1 3.4	5.7	5.9	5.9	6.4 3.3	6.3 3.2	6.4 3.1	5.8 3.0	
ກິ 2.6 ທຸ <del>ງ.</del> ອ	3.2	3.6 2.4	3.6 2.6	3.5 2.7	3.4 2.5	3.2 2.3	5.9 3.2 2.2	5.9 3.2 2.1	3.3 2.1	3.2 2.0	3.1 2.0	3.0 1.9	
1.9 2.8 2,2 2,2	3.2 2.2 3.2 2.8	3.6 2.4 3.7 3.2	3.6 2.6 3.9 3.5	3.5 2.7 4.4 3.4	3.4 2.5 4.4 3.0	3.2 2.3 4.4 3.1	5.9 3.2 2.2 4.4 3.0	5.9 3.2 2.1 4.3 2.9	3.3	3.2 2.0 4.7 3.2	3.1 2.0 4.7 2.8	3.0 1.9 4.1 2.6	+7.0
1.9 2.8 2,2 2,2	3.2 2.2 3.2 2.8 .8	3.6 2.4 3.7 3.2 2.2	3.6 2.6 3.9 3.5 2.5	3.5 2.7 4.4 3.4 2.8	3.4 2.5 4.4 3.0 2.6	3.2 2.3 4.4 3.1 2.3	5.9 3.2 2.2 4.4 3.0 2.1	5.9 3.2 2.1 4.3 2.9 2.2	3.3 2.1 4.6 3.1 2.1	3.2 2.0 4.7 3.2 2.0	3.1 2.0 4.7 2.8 20	3.0 1.9 2.6 20	+7.0
9.52 0.05 1.4 29 1.4 29 1.7	3.2 2.2 3.2 2.8	3.6 2.4 3.7 3.2 2.2 3.6 2.6	3.6 2.6 3.9 3.5 2.5 4.1 2.9	3.5 2.7 4.4 3.4 2.8 3.9 3.2	3.4 2.5 4.4 3.0 2.6 3.8 3.2	3.2 2.3 4.4 3.1 2.3 3.9 3.2	5.9 3.2 2.2 4.4 3.0	5.9 3.2 2.1 4.3 2.9	3.3 2.1 4.6 3.1 2.1 2.1 2.3	3.2 2.0 4.7 3.2 2.0 2.7 2.3	3.1 2.0 4.7 2.8 2.0 2.8 2.3	3.0 1.9 4.1 2.6 2.0 2.7 2.3	+7.0 +6.0
9.75 0.05 7.7 9.75 0.05 7.7 1.4 2.8 1.4 2.8 1.7 1.7 1.1 20 1.1 20	3.2 2.2 3.2 2.8 .8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.	3.6 2.4 3.7 3.2 2.2 3.6 2.6 1.9 3.1	3.6 2.6 3.9 2.5 2.5 4.1 2.9 2.4 3.9	3.5 2.7 4.4 3.4 2.8 3.9 3.2 2.6 3.9	3.4 2.5 4.4 3.0 2.6 3.2 2.5 3.8 3.2 2.5 3.8	3.2 2.3 4.4 3.1 2.3 3.2 2.2 3.8	5.9 3.2 2.2 4.4 3.0 2.1 3.9 2.8 2.0 3.8	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 15 3.1	3.3 2.1 4.6 3.1 2.1 2.3 1.7 2.3	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3	3.1 2.0 4.7 2.8 2.0 2.8 2.3 1.5 2.1	3.0 1.9 4.1 2.6 2.0 2.3 1.8 2.2	+7.0 +6.0
9,9 2,8 2,2 1,4 2,9 1,4 2,9 1,4 2,9 1,7 1,1 2,0 1,6 0,9	3.2 2.2 3.2 2.8 .8 2.8 2.8 2.8 2.8	3.6 2.4 3.7 3.2 2.2 3.6 2.6 1.9	3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.4	3.5 2.7 4.4 3.4 2.8 3.9 3.2 2.6	3.4 2.5 4.4 3.0 2.6 3.2 2.5	3.2 2.3 4.4 3.1 2.3 3.2 2.2	5.9 3.2 2.2 4.4 3.0 2.1 2.8 2.8 2.0	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4	3.3 2.1 4.6 3.1 2.1 2.3 1.7	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5	3.1 2.0 4.7 2.8 2.0 2.8 2.3 1.5	3.0 1.9 4.1 2.6 2.0 2.3 1.8	+7.0 +6.0 +5.0
9:28 1.4 1.7 1.1 2.9 1.7 1.1 2.0 1.6	3.2 2.2 3.2 2.8 2.8 2.8 1.0 2.2 1.8 0.9 2.0	3.6 2.4 3.7 3.2 2.2 2.2 3.6 2.6 1.9 3.1 2.1 2 2 3.1 2.1	3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.4 3.9 2.4 3.9 2.3 1.9 3.4	3.5 2.7 4.4 3.9 3.2 2.6 3.9 3.0 2.2 3.0 2.2 3.4	3.4 2.5 4.4 3.0 2.6 3.2 2.5 3.8 3.0 2.1 3.7	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8	5.9 3.2 2.2 4.4 3.0 2.1 3.9 2.8 2.0 3.8 2.6 1.8 3.8	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.5 2.4 3.5 2.4 1.6 3.7 3.7 3.3	3.3 2.1 4.6 3.1 2.1 2.3 1.7 2.3 2.0 1.5 2.3	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.9 1.5 2.4	3.1 2.0 4.7 2.8 2.0 2.8 2.3 1.5 2.1 2.0 1.5 2.2	3.0 1.9 4.1 2.6 2.0 2.3 1.8 2.2 2.0 1.5 2.1	+7.0 +6.0 +5.0
9,750 1,4 1,7 1,4 1,7 1,1 1,6 1,6 1,6 1,6 1,6 1,6 1,6	3.2 2.2 3.2 2.8 1.0 2.8 1.0 2.0 1.0 2.0 1.6 0.7	3.6 2.4 3.7 3.2 2.2 3.6 1.9 3.1 2.6 1.9 3.1 2.6 1.9 3.1 2.1 2.2 3.0 2.6 1.9 3.1 2.0 1.9 3.1 2.0 3.1 2.0 3.1 2.0 3.1 2.0 3.1 3.2 2.0 3.1 3.2 2.0 3.1 3.2 2.0 3.1 3.2 2.0 3.1 3.1 2.0 3.1 3.1 2.0 3.1 3.1 2.0 3.1 3.1 2.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	3.6 2.6 3.9 2.5 2.5 4.1 2.9 2.4 2.3 1.9 2.3 1.9 2.1 2.1	3.5 2.7 4.4 3.9 3.9 3.2 2.6 3.9 3.0 2.2 3.0 2.2 3.4 2.5 1.9	3.4 2.5 4.4 3.0 2.6 3.2 2.5 3.8 3.0 2.1 3.8 3.0 2.1 3.8 3.0 2.1 1.9	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 5.8 2.9 1.9	5.9 3.2 2.2 4.4 3.0 2.1 3.9 2.8 2.0 3.8 2.0 3.8 2.6 1.9	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.5 2.4 18 3.7 7.7 3.3 2.0 1.6	3.3 2.1 4.6 3.1 2.1 2.3 1.7 2.3 1.7 2.0 1.5 2.3 1.9 1.4	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.5 2.3 1.9 1.5 2.4 1.9 1.5	3.1 2.0 4.7 2.8 2.0 2.8 2.3 1.5 2.1 2.0 1.5 2.2 2.0 1.5	3.0 1.9 4.1 2.6 2.0 1.6 2.2 2.0 1.6 2.0 1.5	+7.0 +6.0 +5.0 +4.0
57:2 52:0 51:2 30:0 35:2 1.4 2.5 25:0 51:2 30:0 35:2 1.7 1.7 1.6 2.5 1.7 1.6 2.5 1.7 1.6 2.5 1.7 1.6 2.5 1.7 1.6 2.5 1.7 1.7 1.7 1.6 2.5 1.7 1.7 1.7 1.6 2.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	3.2 2.2 3.2 2.8 8 8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	3.6 2.4 3.7 3.2 2.2 3.6 2.6 1.9 3.1 1.2 2.2 3.6 2.6 1.9 3.1 1.2 2.2 3.6 2.6 1.9 3.7 2.2 2.2 3.6 2.6 1.9 3.7 2.2 3.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2	3.6 2.6 3.9 2.5 2.5 2.5 2.3 1.9 2.4 2.3 1.9 2.1 2.1 2.1 2.5 2.3 1.8	3.5 2.7 4.4 3.9 3.9 3.2 2.6 3.0 2.2 2.6 3.0 2.2 2.5 1.9 2.8 2.5 1.9	3.4 2.5 4.4 3.0 2.6 3.8 3.0 2.1 3.7 2.5 1.9 3.6 2.4	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 1.9 3.7 2.7	5.9 3.2 2.2 4.4 3.0 2.1 3.8 2.8 2.0 3.8 2.6 1.8 3.8 2.6 1.8 3.8 2.6 1.9 3.3 2.6	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.5 2.4 3.5 2.0 1.6 4.1 2.0 1.6 4.1 2.2	3.3 2.1 4.6 3.1 2.1 2.3 1.7 2.3 1.7 2.3 1.7 2.3 1.9 1.4 4.1 2.0	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 1.5 2.3 1.5 2.4 1.9 1.5 2.4 1.5 2.4 1.5	3.1 2.0 4.7 2.8 2.0 2.3 1.5 2.1 2.0 1.5 2.2 2.0 1.5 2.7 2.7 2.7	3.0 1.9 4.1 2.6 2.0 2.7 2.3 1.6 2.0 1.6 2.0 1.5 2.4 2.0	+7.0 +6.0 +5.0 +4.0
9.25 0.05 2.17 20 1.4 20 1.7 1.0 20 1.6 20 1.7 20 1.7 20 1.6 20 1.7 20	3.2 2.2 3.2 2.8 8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.9 1.9 2.0 1.6 0.7 2.1	3.6 2.4 3.7 3.2 2.2 3.6 2.6 1.9 3.1 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.2 3.6 2.6 1.9 3.1 2.4 3.7 3.2 2.2 3.6 2.4 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.2 2.2 3.7 3.7 3.2 2.2 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.4 2.9 2.4 2.3 1.9 2.1 5 2.3	3.5 2.7 4.4 3.9 3.2 2.6 3.9 3.0 2.2 3.4 2.5 1.9 2.8	3.4 2.5 4.4 3.0 2.6 3.8 3.2 2.5 3.8 3.0 2.1 3.8 3.0 2.1 3.8 3.0 2.1 3.7 2.6 1.9 3.6	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 3.7	5.9 3.2 2.2 4.4 3.0 2.1 3.9 2.8 2.0 3.8 2.6 1.8 3.8 2.6 1.9 3.5	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.1 2.0 7.7 3.3 2.0 1.6 4.1	3.3 2.1 4.6 3.1 2.1 2.3 1.7 2.3 1.7 2.3 1.5 2.3 1.5 1.9 1.4 4.1	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.5 1.5 1.5 2.4 1.9 1.5 3.5	3.1 2.0 4.7 2.8 2.0 2.3 1.5 2.1 2.0 1.5 2.7 2.7 1.5	3.0 1.9 4.1 2.6 2.0 2.7 2.3 1.6 2.2 2.0 1.6 2.1 2.0 1.5 2.4	+7.0 +6.0 +5.0 +4.0 +3.0
9     28       27     28       28     20       27     27       28     20       20     20       20     20       20     20       20     20       1.7     1.6       0.8     20       1.6     0.8       20     1.7       0.8     20       1.7     0.8       2.0     1.7       0.4     2.0       1.7     0.4       2.0     1.7       1.7     1.7       1.7     1.7	3.2 2.2 3.2 2.8 8 2.8 2.8 2.8 2.8 2.9 2.0 1.6 0.7 2.0 1.6 0.7 2.1 1.7 0.6	3.6 2.4 3.7 3.2 2.2 3.6 2.6 1.9 3.1 1.2 2.3 1.2 2.3 1.7 0.9 2.1 1.7 0.9 2.2 1.8	3.6 2.6 3.9 2.5 2.5 2.5 2.5 2.4 3.9 2.4 2.3 1.9 2.1 2.3 1.8 1.1 2.2 1.9	3.5 2.7 4.4 3.0 2.8 3.9 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.4 2.5 1.9 2.8 2.3 1.6 2.3 1.6 2.5 2.7	3.4 2.5 3.0 2.6 3.8 3.0 2.1 3.7 2.6 1.9 3.6 2.4 1.7 3.3 2.5 3.8 3.0 2.1 3.7 2.6 1.9 3.6 2.4 1.7 2.5 3.8 3.0 2.1 3.0 2.1 3.0 2.6 3.0 3.0 2.6 3.0 3.0 2.6 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	3.2 2.3 4.4 3.1 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 1.9 1.9 1.7 1.7 3.5 2.5	5.9 3.2 2.2 4.4 3.0 2.1 2.8 2.0 2.8 2.0 3.8 2.6 1.8 3.8 2.6 1.9 3.7 2.6 1.8 3.6 2.6	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 1 2.0 1.6 4.1 2.2 5 4.0 1.6 4.1 2.2 5 4.0 2.6	3.3 2.1 4.6 3.1 2.3 1.7 2.3 1.7 2.3 1.9 1.5 2.3 1.9 1.4 4.1 2.0 1.5 2.3 1.9 1.4 4.1 2.0 1.5 2.3 1.9 1.4 4.1 2.1 2.3 1.7 2.3 1.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.5 2.3 1.5 2.3 1.5 2.4 1.9 1.5 2.4 1.9 1.5 2.4 1.9 1.5 2.4 1.9 1.5 2.4 2.0 2.7 2.3 1.5 2.5 2.5 1.5 2.5 2.5 1.5 2.5 2.5 1.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	3.1 2.0 4.7 2.8 2.0 2.3 1.5 2.1 2.0 1.5 2.2 2.0 1.5 2.7 2.7 2.7	3.0 1.9 4.1 2.6 2.0 2.7 2.3 1.6 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.5 2.4 2.1 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.5 2.0 2.1 2.0 1.5 2.0 2.1 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	+7.0 +6.0 +5.0 +4.0 +3.0
9     2.8       2.8     2.8       1.4     2.9       1.4     2.0       1.7     1.1       2.0     1.6       1.6     1.6       1.7     1.6       1.6     1.7       1.7     2.0       1.6     1.6       1.7     2.0       1.7     2.0       1.7     0.4       2.0     0.5       2.0     1.7       1.6     2.0       1.7     0.6       2.0     0.5       2.0     0.5       2.0     0.5       2.0     0.6       2.0     0.6       2.0     0.6       2.0     0.6  2.0     0.6	3.2 2.2 3.2 2.8 3.2 2.8 1.8 2.8 1.9 2.0 1.6 0.7 2.1 1.7 0.6 2.2 1.7 0.5 2.2	3.6 2.4 3.7 3.2 2.2 2.2 2.2 3.6 2.6 1.9 3.1 2.2 2.3 1.9 0.9 2.1 1.7 0.7 2.2 1.8 0.7 2.2	3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.4 2.3 1.9 1.0 2.2 2.2 1.9 1.0 2.2	3.5 2.7 4.4 3.9 3.0 2.8 3.0 2.2 3.0 2.2 3.4 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 2.5 2.7 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	3.4 2.5 3.0 2.6 3.2 2.5 3.8 3.0 2.1 3.7 2.6 1.9 3.6 2.4 1.7 3.3 2.6 1.9 3.6 2.4 1.7 3.6 2.4 1.7 3.0 2.1 3.7 2.6 1.9 3.6 2.4 3.0 2.1 3.0 2.5 3.0 3.0 2.5 3.0 2.5 3.0 2.5 3.0 3.0 2.5 3.0 2.5 3.0 3.0 3.0 3.0 2.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 3.7 2.7 1.7 1.7 5.5 2.5 16 5.8	5.9 3.2 2.2 3.0 2.1 3.9 2.8 2.0 3.8 2.6 1.8 3.8 2.6 1.8 3.6 2.6 1.8 3.6 2.6 1.8 3.6 2.6 1.8 3.6 2.6 1.8 3.6 2.6 1.8 3.7 2.6 3.7 2.2 3.8 2.0 3.8 3.0 2.1 3.8 3.0 2.1 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.6 3.8 3.8 3.6 3.8 3.6 3.6 3.8 3.6 3.8 3.8 3.6 3.8 3.8 3.6 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 1.6 3.7 2.0 1.6 4.1 2.2 6 4.0 2.6 1.6 3.7	3.3 2.1 4.6 3.1 2.1 2.1 2.3 1.7 2.3 1.7 2.3 1.7 1.9 1.4 4.1 2.0 1.5 1.4 4.1 2.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.9 1.5 2.4 1.9 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 2.0 2.7 2.3 1.5 2.0 2.7 2.3 1.5 2.0 2.7 2.3 1.5 2.0 2.7 2.3 1.5 2.5 2.0 2.7 2.3 1.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	3.1 2.0 4.7 2.8 2.3 1.5 2.0 1.5 2.0 1.5 2.2 2.0 1.5 2.7 1.5 3.2 2.5 1.5 3.2 2.5 1.5 3.2 2.5 1.5 3.2 2.5 1.5 3.6 2.7 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	3.0 1.9 4.1 2.6 20 2.7 2.3 1.6 2.2 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.4 2.7 1.9 1.4 2.7 1.9 1.4 2.7 1.9 1.4 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	+7.0 +6.0 +5.0 +4.0 +3.0 +2.0
9     28       28     20       1.1     20       1.7     1.6       1.7     1.6       1.8     2.0       1.7     2.0       1.6     0.8       2.0     0.8       2.0     1.7       1.6     0.8       2.0     1.7       1.6     0.8       2.0     1.7       0.6     2.0       1.7     0.6       2.0     0.8       0.8     0.8	3.2 2.2 3.2 2.8 8 2.8 2.8 2.8 2.9 2.0 1.6 0.9 2.0 1.6 0.7 2.1 1.7 0.5	3.6 2.4 3.7 3.2 2.2 2.2 3.8 2.6 1.9 3.1 1.2 2.2 2.2 3.8 2.6 1.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	3.6 2.6 3.9 3.5 2.5 2.5 2.5 2.5 2.9 2.4 2.9 2.3 1.9 2.3 1.9 2.1 2.5 2.3 1.8 1.1 2.9 2.1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	3.5 2.7 4.4 3.9 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.4 2.5 1.9 2.8 2.3 1.6 2.3 1.6 2.5 1.9 2.8 3.0 2.2 3.4 2.5 1.9 2.8 3.0 2.2 1.9 2.8 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 3.0 2.2 3.0 2.5 2.5 3.0 2.5 2.5 3.0 2.5 3.0 2.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	3.4 2.5 3.0 2.6 3.8 3.2 2.5 3.8 3.0 2.1 3.8 3.0 2.1 3.8 3.0 2.1 3.8 3.0 2.1 3.7 2.6 1.9 3.8 3.0 2.1 3.7 2.6 1.9 3.8 3.0 2.1 3.7 2.6 1.9 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 3.7 2.7 1.7 1.7 5 2.5 1.6	5.9 3.2 2.2 4.4 3.0 2.1 3.9 2.8 2.0 3.8 2.6 1.8 3.8 2.6 1.9 3.4 2.6 1.8 3.6 1.9 3.5 6 1.6	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.6 3.1 2.0 1.6 4.1 2.2 6 4.0 2.6 1.6	3.3 2.1 4.6 3.1 2.3 1.7 2.3 1.7 2.3 1.9 1.5 2.3 1.9 1.4 4.1 2.0 1.5 2.3 1.9 1.4 4.1 2.0 1.5 2.3 1.9 1.4 4.1 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.5 2.3 1.5 2.3 1.5 2.4 1.9 1.5 2.4 1.9 1.5 2.4 1.9 1.5 2.4 1.9 1.5 2.4 2.0 2.7 2.3 1.5 2.5 2.5 1.5 2.5 2.5 1.5 2.5 2.5 1.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	3.1 2.0 4.7 2.8 2.3 1.5 2.0 1.5 2.0 1.5 2.2 2.0 1.5 2.7 1.5 3.2 2.5 1.5 3.2 2.5 1.5 3.2 2.5 1.5 3.2 2.5 1.5 3.6 2.7 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	3.0 1.9 4.1 2.6 2.0 2.7 2.3 1.6 2.0 1.5 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.4	+7.0 +6.0 +5.0 +4.0 +3.0 +2.0
9     23     20     51/2     20/2 </td <td>3.2 2.2 3.2 2.8 8 2.8 1.9 2.0 1.6 0.7 2.1 1.7 0.6 2.2 1.7 0.6 2.2 1.7 0.5 2.2 1.9</td> <td>3.6 2.4 3.7 3.2 2.2 2.2 3.6 2.6 1.9 3.1 1.9 1.2 2.3 1.9 2.1 1.7 0.9 2.1 1.7 0.7 2.2 1.8 0.7 2.2 1.8 0.7 2.2 1.9 2.1 1.7 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 2.1 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 2.2 1.9 2.2 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.1 2.2 2.5 1.9 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.2</td> <td>3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.4 2.3 1.9 2.3 1.8 1.1 2.2 1.9 1.0 2.2 2.0</td> <td>3.5 2.7 4.4 3.9 3.9 3.2 2.6 3.0 2.2 2.6 3.0 2.2 1.9 2.8 2.3 4 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 2.7 2.6 2.5 2.7 2.6 2.5 2.5 2.7 2.6 2.6 2.5 2.5 2.5 2.6 2.6 2.5 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6</td> <td>3.4 2.5 3.0 2.6 3.8 3.0 2.1 3.7 2.6 1.9 3.6 2.4 1.7 3.6 2.4 1.7 3.6 2.4 1.7 3.6 2.4 3.7 2.6 1.9 3.6 2.4 3.0 2.1 3.7 2.6 1.9 3.6 2.4 3.0 2.1 3.7 2.6 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.6 3.7 3.7 2.6 3.8 3.0 2.6 3.7 3.7 2.6 3.8 3.0 2.6 3.7 2.6 3.7 3.7 2.6 3.8 3.7 2.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7</td> <td>3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 3.7 2.7 1.7 1.7 3.5 2.5 48 2.3</td> <td>5.9 3.2 2.2 4.4 3.0 2.1 3.8 2.6 1.8 3.6 1.9 3.5 2.6 1.8 3.5 2.6 1.8 3.5 2.6 1.8</td> <td>5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.1 2.0 1.7 3.3 2.0 1.6 4.1 2.2 6 4.0 2.6 4.0 2.6 3.7 2.6</td> <td>3.3 2.1 4.6 3.1 2.1 1.7 2.3 1.7 2.3 1.7 2.3 1.7 1.5 1.4 4.1 2.0 1.5 1.4 4.1 2.0 1.5 4.4 2.6 1.5 3.8 2.9</td> <td>3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.9 1.5 2.1 1.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 2.5 3.0 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2</td> <td>3.1 2.0 4.7 2.8 2.3 1.5 2.1 2.0 1.5 2.2 2.0 1.5 2.7 2.7 1.5 3.2 2.5 1.6 3.6</td> <td>3.0 1.9 4.1 2.6 20 2.7 2.3 1.6 2.2 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.4 2.7 1.9 1.4 2.7 1.9 1.4 2.7 1.9 1.4 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7</td> <td>+7.0 +6.0 +5.0 +4.0 +3.0 +2.0 +1.0</td>	3.2 2.2 3.2 2.8 8 2.8 1.9 2.0 1.6 0.7 2.1 1.7 0.6 2.2 1.7 0.6 2.2 1.7 0.5 2.2 1.9	3.6 2.4 3.7 3.2 2.2 2.2 3.6 2.6 1.9 3.1 1.9 1.2 2.3 1.9 2.1 1.7 0.9 2.1 1.7 0.7 2.2 1.8 0.7 2.2 1.8 0.7 2.2 1.9 2.1 1.7 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 2.1 1.9 2.2 1.9 2.2 1.9 2.2 1.9 2.2 2.2 1.9 2.2 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.5 1.9 2.2 2.1 2.2 2.5 1.9 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.2	3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.4 2.3 1.9 2.3 1.8 1.1 2.2 1.9 1.0 2.2 2.0	3.5 2.7 4.4 3.9 3.9 3.2 2.6 3.0 2.2 2.6 3.0 2.2 1.9 2.8 2.3 4 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 2.7 2.6 2.5 2.7 2.6 2.5 2.5 2.7 2.6 2.6 2.5 2.5 2.5 2.6 2.6 2.5 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	3.4 2.5 3.0 2.6 3.8 3.0 2.1 3.7 2.6 1.9 3.6 2.4 1.7 3.6 2.4 1.7 3.6 2.4 1.7 3.6 2.4 3.7 2.6 1.9 3.6 2.4 3.0 2.1 3.7 2.6 1.9 3.6 2.4 3.0 2.1 3.7 2.6 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.1 3.7 2.6 3.8 3.0 2.6 3.7 3.7 2.6 3.8 3.0 2.6 3.7 3.7 2.6 3.8 3.0 2.6 3.7 2.6 3.7 3.7 2.6 3.8 3.7 2.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	3.2 2.3 4.4 3.1 2.3 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 3.7 2.7 1.7 1.7 3.5 2.5 48 2.3	5.9 3.2 2.2 4.4 3.0 2.1 3.8 2.6 1.8 3.6 1.9 3.5 2.6 1.8 3.5 2.6 1.8 3.5 2.6 1.8	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.1 2.0 1.7 3.3 2.0 1.6 4.1 2.2 6 4.0 2.6 4.0 2.6 3.7 2.6	3.3 2.1 4.6 3.1 2.1 1.7 2.3 1.7 2.3 1.7 2.3 1.7 1.5 1.4 4.1 2.0 1.5 1.4 4.1 2.0 1.5 4.4 2.6 1.5 3.8 2.9	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.9 1.5 2.1 1.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 2.5 3.0 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 3.5 2.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	3.1 2.0 4.7 2.8 2.3 1.5 2.1 2.0 1.5 2.2 2.0 1.5 2.7 2.7 1.5 3.2 2.5 1.6 3.6	3.0 1.9 4.1 2.6 20 2.7 2.3 1.6 2.2 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.4 2.7 1.9 1.4 2.7 1.9 1.4 2.7 1.9 1.4 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	+7.0 +6.0 +5.0 +4.0 +3.0 +2.0 +1.0
9     28       21     20       1.4     20       1.4     20       1.7     1.6       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.0       1.6     2.1       1.8     2.2       1.8     2.2       1.9     1.2       1.2     1.2	3.2 2.2 3.2 2.8 8 2.8 2.8 2.8 2.9 2.0 1.6 0.9 2.0 1.6 0.7 2.1 1.7 0.5 2.2 1.9 0.7 2.2 1.9 0.7 2.2 1.9 0.7	3.6 2.4 3.7 3.2 2.2 2.2 3.6 2.6 1.9 3.1 2.1 1.7 0.9 2.1 1.7 0.7 2.2 1.8 0.7 2.2 1.8 0.7 2.2 1.9 0.7 2.2 1.9 0.7 2.2 1.9 0.7 2.2 1.9 0.7 2.2 1.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.9 2.1 1.7 0.7 2.2 1.9 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 0.7 1.9 2.1 1.7 0.7 1.9 0.7 1.9 2.1 1.7 0.7 1.9 2.1 1.7 0.7 1.9 1.9 0.7 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	3.6 2.6 3.9 3.5 2.5 4.1 2.9 2.3 1.9 2.3 1.9 1.0 2.2 2.0 1.0 2.2 2.0 1.0 1.0 2.2 2.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	3.5 2.7 4.4 3.9 3.2 2.6 3.0 2.2 3.0 2.2 3.0 2.2 3.4 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.5 1.9 2.8 2.5 1.9 2.5 1.9 2.8 2.5 1.9 2.5 1.9 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.5 1.9 2.8 2.1 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 1.3 2.5 2.1 1.3 2.5 2.0 1.3 2.5 2.0 2.5 2.1 1.3 2.5 2.0 2.1 2.5 2.1 1.3 2.5 2.0 2.1 2.5 2.1 1.3 2.5 2.0 2.1 2.5 2.1 1.3 2.5 2.0 2.0 2.5 2.0 2.1 2.5 2.0 2.0 2.5 2.0 2.5 2.0 2.0 2.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	3.4 2.5 3.0 2.6 3.2 2.5 3.8 3.0 2.1 3.7 2.6 1.9 3.6 2.4 1.7 3.8 2.6 1.9 3.6 2.4 1.7 3.7 2.6 1.9 3.6 2.4 1.7 1.7 2.7 2.0 1.6	3.2 2.3 4.4 3.1 2.2 3.9 3.2 2.2 3.8 3.0 1.7 3.8 2.9 1.9 3.7 2.7 1.7 3.5 2.5 1.6 3.8 2.9 1.9 3.7 2.7 1.7 3.5 2.5 1.6	5.9 3.2 2.2 3.0 2.1 3.8 2.6 1.8 3.8 2.6 1.8 3.8 2.6 1.8 3.8 2.6 1.8 3.6 2.6 1.8 3.6 2.6 1.8 3.7 2.6 1.8 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.6 1.8 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.6 1.7 3.0 2.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3	5.9 3.2 2.1 4.3 2.9 2.2 3.5 2.4 3.1 2.0 7.7 3.3 2.0 1.6 4.1 2.2 6 4.0 2.6 1.6 3.7 2.6 1.6 3.7 2.6 1.6 3.7 2.6 1.8	3.3 2.1 4.6 3.1 2.1 2.1 2.3 1.7 2.3 1.7 2.3 1.9 1.4 4.1 2.0 1.5 1.4 4.1 2.9 1.4 2.9 1.8 2.7 2.3 1.8 2.7 2.3 1.8 1.8 2.7 2.1 1.8 1.4 1.4 1.4 1.4 2.1 2.1 1.7 1.7 1.7 1.5 1.5 1.5 1.7 1.7 1.5 1.5 1.5 1.7 1.7 1.7 1.5 1.5 1.5 1.7 1.7 1.7 1.7 1.5 1.5 1.5 1.5 1.7 1.7 1.7 1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	3.2 2.0 4.7 3.2 2.0 2.7 2.3 1.5 2.3 1.5 2.4 1.9 1.5 3.5 2.1 1.5 2.4 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 1.5 3.5 2.1 2.5 1.5 3.5 2.1 1.5 3.5 2.5 1.5 3.5 2.5 1.5 3.5 2.5 1.5 3.5 2.5 3.5 2.5 3.5 2.5 2.5 3.5 2.5 3.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 3.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	3.1 2.0 4.7 2.8 2.3 1.5 2.1 2.0 1.5 2.7 2.7 1.5 2.7 1.5 2.7 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 2.8 2.0 1.5 2.7 2.8 2.0 1.5 2.7 2.8 2.0 1.5 2.7 2.8 2.0 1.5 2.7 2.8 2.0 1.5 2.7 2.8 2.7 2.8 2.0 1.5 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.7 2.8 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	3.0 1.9 4.1 2.6 20 2.7 2.3 1.6 2.0 1.5 2.4 2.0 1.5 2.4 2.0 1.4 2.7 2.1 2.0 1.5 2.4 2.0 1.4 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.1 2.1 2.0 1.5 2.4 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	+7.0 +6.0 +5.0 +4.0 +3.0 +2.0

1. Describe what is happening to the temperatures at each of the eight locations from Module 1?





# **ACTIVITY FOUR**

This exercise uses Graphic 8.4 to look at the temperature changes during September, October and November. **GRAPHIC 8.4** 

September (°C) 35.0 1.7 2. 2.5 1.3 2.6 1.7 2. 1.6 1.6 1.7 1.6 1.6 1.6 1.6 +7.00.6 5 1.2 1.2 1.3 1.1 0.9 0.8 0.6 0.7 0.8 0.6 32. 2.3 2.7 2.5 2.4 2.5 2.4 2.6 2.5 2.5 2.5 2.5 1. ۰. TX 1.6 30.0 1.3 1.2 0.7 2 .0 0.9 0.8 0,7 .9 1.1 0.9 0.6 +6.02.2 1.7 2.2 1.8 1.5 .8 1.9 5.1 1.6 1.0 1.2 1.2 1.1 1.1 1.5 ŝ 0.4 1.1 1.1 1.0 1.2 0.8 0.8 0.8 0.9 0 0.6 0.4 +5.027. 1.5 2.2 2.0 1.5 1.4 1.1 0.9 1.4 1.3 1,1 1.0 1.1 1.4 2 1.3 25.0 1.8 0.8 0.7 1.0 1.0 0.6 0.5 0.6 0.7 0.2 0.2 0.8 2.0 1.4 1.3 1.2 1.8 1.4 1.1 +4.01.1 1.2 1.2 0.9 1.1 1.0 1.0 0.7 ŝ 8.0 0.5 0.7 0.6 0.9 0.5 0.6 0.2 8.6 0.7 22. 2.0 1.1 1.3 0.9 2.7 1.1 2.5 1.1 1.7 2.2 2.6 1.9 0.9 0.9 1.0 1.0 1.1 21.0 +3.01.2 11 20.0 0.7 0.5 0.5 .... .... 0.3 0.8 0.6 0.6 0.6 .... 2.8 1.2 2.0 1.2 1.2 1.4 1.6 2.0 2.5 2. 1.2 1.0 1.0 1.1 1.0 1.1 1.0 1.0 1.2 1.5 12 +2.017.5 0.7 0.0 0.3 .... 0.5 0.6 0.6 0.8 07 0.6 ..... 2.2 1,8 1.6 1.3 1.3 1.9 1.3 0.9 1.0 0.9 1.0 1.0 1.2 0.9 1,1 1.2 15.0 0.1 0.2 0.3 0.5 0.6 0.7 0.7 0.7 0.8 0.7 0.7 +1.01.3 1.5 1.5 1.8 1.6 1.2 1.3 1.3 1.4 1.4 1.6 0.9 0.9 1.1 1.1 0.9 1.0 1.0 1.0 1.0 1.0 14 ŝ 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.7 N +0.0-1+7.65.0-112.5-110.0-107.5-105.0-102.5-100.0-97.5-95.0-92.5-90.0-87.85.0 October (°C) 35.0 +7.05.6 5.6 5.6 5.0 5.4 5.5 5.7 5.6 5.5 5.4 5.3 5.2 5.0 5 4.0 6.1 4.1 3.9 3.8 1.8 3.6 1.5 1.1 8.1 32. 6.8 5.6 5.9 4.7 6.6 6.8 5.5 5.4 6.3 5.3 5.3 5.0 4.6 4.4 52 5.4 +6.030.0 4.4 3.5 3.3 4.0 1.2 3.4 3.3 2.0 6,6 6. 6.8 5.7 4.7 4,5 4.1 3.7 3.5 4.9 5.0 5.5 5.2 5.0 4.2 3.9 3.7 5.2 4.6 0 4.0 5.9 5.1 0 2.9 2.9 2.8 2.8 2.4 3.4 3.2 +5.027. 6. 5.8 4.1 3.9 4.8 3.5 3.3 3.3 3.2 4.8 3.3 3 5 3.9 4.4 4.7 25.0 14 2.9 2.8 2.6 2.5 2.5 2.4 2.1 2.4 3.4 2.8 +4.04.2 3.0 4.3 5.7 4.4 5.9 4.7 5.4 4.3 4.1 4.2 3.2 4.0 3.1 4 5.7 4.7 4.0 3.0 3.6 3.3 3.6 3.1 4.1 5 3.4 2.7 2.2 3.1 2.8 2.7 2.5 2.3 2.2 1.9 1.8 2.0 2.2 22. 4.2 4.0 3.9 3.9 5. 5.0 5.2 4.9 3.8 +3.04.1 3.1 3.0 3.2 3.4 3.5 4.2 4.4 4.2 3.6 3.2 3.3 3.1 20.0 .9 1.7 2.0 2.4 3.0 2.9 2,6 2.5 2.4 2.3 12 2.8 3.8 4.3 3.7 2.7 3.6 4.0 3.4 3,5 4,8 4.2 3.3 3.2 3.1 3.3 3.4 17 3.5 3.1 +2.03.4 17.5 2.2 2.2 2.2 2.3 2.5 2.7 2.8 2.7 2.4 .8 2.8 2.6 5.3 3.8 50 3.9 3.3 3.9 3.9 3.3 3.9 3.3 5.3 3.9 4.2 3.3 3.9 5.0 3.5 3.4 3.4 3.7 +1.015.0 27 2.4 2.4 24 2.4 2.5 2.5 27 2.7 2.5 3.9 3.9 4.0 4.0 4.0 4.2 4.1 4.3 4.3 5.1 5.4 5.8 4.3 3.2 3.2 3.2 3.3 12.5 3.2 3.2 3.2 3.2 3.2 3.2 Э 3.9 3/9 2.7 2.6 2.6 2.7 2.7 2.8 2.5 2.6 2.6 2.6 2.6 2.6 +0.0-1+7.85.0-112.5-110.0-107.5-105.0-102.5-100.0-97.5-95.0-92.5-90.0-87-85.0





#### **November** (°C) 32.5 35.0 +7.0 3.0 3.3 3.5 3.2 3.4 3.5 3.1 3 1 3.5 3.3 3 3 33 3 1 . ..... . 7 6 .8 3.4 3.4 3.8 2.9 3.5 4.0 3.3 2.8 3.3 3.0 3 +6.030.0 2.6 2.5 2.2 8 3. 3.8 3.B 3.29 3.0 3.5 2.3 2.8 2.3 2.1 2.9 3.1 3.1 3. 27 2.6 23 27.5 +5.02.3 2.2 2.2 7 .7 1.6 .6 2.4 2.6 3.8 2.6 2.0 2.9 2.8 2.2 2.7 2.8 2.4 2.1 2 27 25.0 .5 2.1 1.5 2.1 .9 .5 5 .5 +4.02.5 2.4 1.9 2.4 2.4 1.9 2.3 3.5 3.6 3.) 3. 3.4 2.9 2.4 2.3 2.6 2 2.5 2.6 2.6 2.2 1.9 22.5 0.8 2.0 ... 2.0 8 5 4 1 2.4 1.9 2.3 2.0 3. 2.5 3.5 2.4 3. 1.9 2.0 +3.02.3 2.6 1.9 2.2 2.1 2.1 2.0 20.0 .9 0.9 .0 .5 .3 2.3 1.9 2.2 1.9 2.0 2.9 2.3 2.3 3.3 2.2 1.9 2.9 +2.02.0 2 24 17.5 0.8 0.9 1.0 .6 i. 5/ 1.4 2.0 2.0 2.0 1.9 2.0 3. 2.2 3. 2.3 2.5 2.0 2.1 2.2 +1.015.0 .2 .3 1.5 .5 .5 .4 2.1 2.2 2.3 2.3 2.4 2.5 2.5 2.6 2. 2.9 3.1 3.3 2.3 2.0 2.0 1.9 2.0 2.0 2.0 2.0 1.9 1.9 24 12.5 +0.01.5 1.5 .5 .5 .5 7 1+7.55.0-112.5-110.0-107.5-105.0-102.5-100.0-97.5-95.0-92.5-90.0-87-85.0

- 1. Describe what is happening at each of the locations studied in Unit 1?
- 2. Which region has the greatest seasonal variation?
- 3. Looking at all the graphs which season has the greatest increase in temperature?

# PERSONAL ACTIVITY

Have you noticed that the water in the sea or a lake seems much cooler than the land in spring and warmer in autumn?



