

1)	i)	Draw a boxplot for the Daily Mean Temperatures in 1987 from all UK sites	[6]
		combined and compare it to a similar boxplot for 2015.	
	ii)	Comment on the distributions of the Daily Mean Temperatures.	[2]
2)	Summar	ise the observations mean, median and range of Daily Total Rainfall for each of	[15]
	the UK s	ites in 1987.	
3)	i)	Find the variable most correlated to Daily Maximum Gust (0000-2400) (kn) in	[2]
		the Heathrow 1987 data.	
	ii)	Use this as the independent variable in a linear regression model, predicting	[2]
		the Daily Maximum Gust. State this model.	
	iii)	Work out the mean absolute error between the predicted and actual Daily	[1]
		Maximum Gust.	
	iv)	Use the same model to predict the Daily Maximum Gust for Heathrow 2015.	[2]
		Then work out the mean absolute error between the predicted and actual Daily	
		Maximum Gust.	
	v)	What is the difference in error between 1987 and 2015. What might be the	[1]
		reason for this?	

4) On the following sketch of the UK draw an arrow showing mean Daily Mean Wind [5] Direction (o) for each airport in 2015.



5) Plot and comment on the 7-day moving average Rainfall (24 hour total) (line) and Daily [10] Mean Air Temperature (bar) on the same graph for Beijing 1987.