

### Part 4.5: Predictions

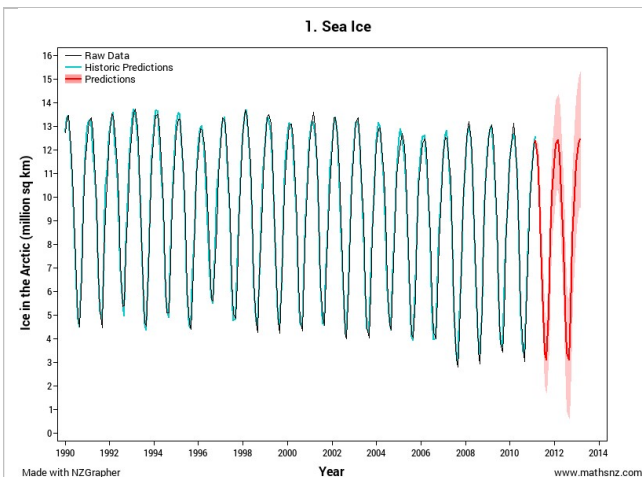
At this point in your report you should include the forecast output we produced earlier eg:

Time	Min	Prediction	Max
2011M04	11.117	11.690	12.274
2011M05	9.3005	10.102	10.888
2011M06	6.9482	7.8910	8.8742
2011M07	3.9685	5.1036	6.2087
2011M08	2.0775	3.3529	4.6057
2011M09	1.5600	3.0741	4.5038
2011M10	3.5709	5.1246	6.6439
2011M11	6.5583	8.1878	9.9006
2011M12	8.3936	10.095	11.894
2012M01	9.6028	11.406	13.346
2012M02	10.218	12.227	14.232
2012M03	10.369	12.420	14.533
2012M04	9.5365	11.706	13.927
2012M05	7.8806	10.118	12.481
2012M06	5.5889	7.9068	10.341
2012M07	2.7299	5.1194	7.5392
2012M08	0.90775	3.3687	5.7740
2012M09	0.48142	3.0900	5.5093
2012M10	2.3890	5.1405	7.6785
2012M11	5.4112	8.2036	10.868
2012M12	7.3447	10.111	12.798
2013M01	8.7271	11.422	14.285
2013M02	9.3710	12.242	15.102
2013M03	9.5273	12.435	15.353

We then need to write up **two** of these predictions in sentences. In these sentences it is VITAL you include the units, and round the numbers appropriately, and not only give the exact number as well as a range that it is likely to be between.

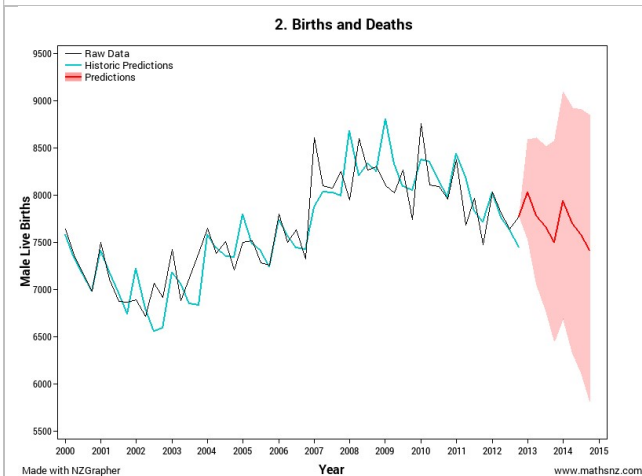
For each of the graphs make two predictions, the first two have been done for you.

*Note: every time the predictions get produced in NZGrapher the min and max will be slightly different as they are produced using a bootstrapping process*



In April 2011 I would expect the amount of sea ice for the Arctic to be 11.69 million square kilometres. However I cannot be completely certain about my prediction, but I would expect the area of ice will between 11.11 million square kilometres and 12.27 million square kilometres.

In March 2013 I would expect the amount of sea ice for the Arctic to be 12.44 million square kilometres. However I cannot be completely certain about my prediction, but I would expect the area of ice will between 9.53 million square kilometres and 15.35 million square kilometres.



In January to March 2013 I would expect there to be approximately 8030 male live births. However I cannot be completely confident in my prediction, but I would expect the number of male live births for this quarter to be somewhere between 7540 and 8590.

In October to December 2014 I would expect there to be approximately 7410 male live births. However I cannot be completely confident in my prediction, but I would expect the number of male live births for this quarter to be somewhere between 5890 and 9050.