Example

The example time series figure (bottom right) shows a black line which represents some observation data. The other 4 lines (blue, gold, red and purple) are different models, each trying to replicate that same observation data.

It is difficult to extract meaningful conclusions about the time series from the figure. The corresponding statistical information printed in a table can still be difficult to read. However modified Taylor diagrams provide a more intuitive way to interpret the data.

Model A (blue time series): It can be seen in the time series that the standard deviation of the model is much smaller than the observation. However other statistical information is not clear. However from the modified Taylor diagram it is clear that it has no obvious bias, very good correlation and with an error standard deviation of approximately 7.

Model B (gold time series): Reading from the modified Taylor diagram we can see that the standard deviation is very similar to the observation, but with a poor correlation and a negative bias.

Model C (red time series): The model performs fairly well, in terms of correlation, error standard deviation and standard deviation. But it has the largest bias of any of the models.

Model D (purple time series): The standard deviation of the model is larger than 1, and thus it over estimates the spread of values. However the model has a very good correlation with the observation and only a slight positive bias.

	OBS	A	B	C	D
Std. Dev.	7.860	0.791	7.875	8.294	10.22
Corr.	1.000	0.967	0.274	0.867	0.995
Bias	0.000	0.089	-0.393	0.782	1.965
Error Std. Dev.	0.000	7.052	9.482	4.192	2.523
RMS	0.000	7.053	9.490	4.264	3.200