	3	72.8	35.4	56.6	0.18	21.1
	4	92.3	19.4	71.5	0.15	16.8
	5	98.1	5.9	75.9	0.15	0.4
	6	99.7	1.6	85.6	0.15	0.0
	7	100.0	0.3	99.8	0.15	0.0
İ	8	100.0	0.0	100.0	0.15	0.0
Table 1: Summary statistics for cumulative additive fits to the data. The residual coefficient of						
determination (R^2) values are computed using the residuals from the previous fit as the target values;						
this measures how much of the residual variance is explained by each new component. The mean						
absolute error (MAE) is calculated using 10 fold cross validation with a contiguous block design;						
this measures the ability of the model to interpolate and extrapolate over moderate distances. The						

Cross validated MAE

1360.65

0.33

0.23

Reduction in MAE (%)

100.0

32.0

 ΔR^2 (%)

0.0

37.4

 R^{2} (%)

0.0

Residual R^2 (%)

0.0

37.4

performance.

model is fit using the full data and the MAE values are calculated using this model; this double use of data means that the MAE values cannot be used reliably as an estimate of out-of-sample predictive

Model checking statistics are summarised in table 2 in section 4. These statistics have revealed statistically significant discrepancies between the data and model in component 8.

The rest of the document is structured as follows. In section 2 the forms of the additive components are described and their posterior distributions are displayed. In section 3 the modelling assumptions

are described and their posterior distributions are displayed. In section 3 the modelling assumptions of each component are discussed with reference to how this affects the extrapolations made by the model. Section 4 discusses model checking statistics, with plots showing the form of any detected discrepancies between the model and observed data.