Multiobjective optimization of seasonal operating rules for water grids using streamflow forecast information

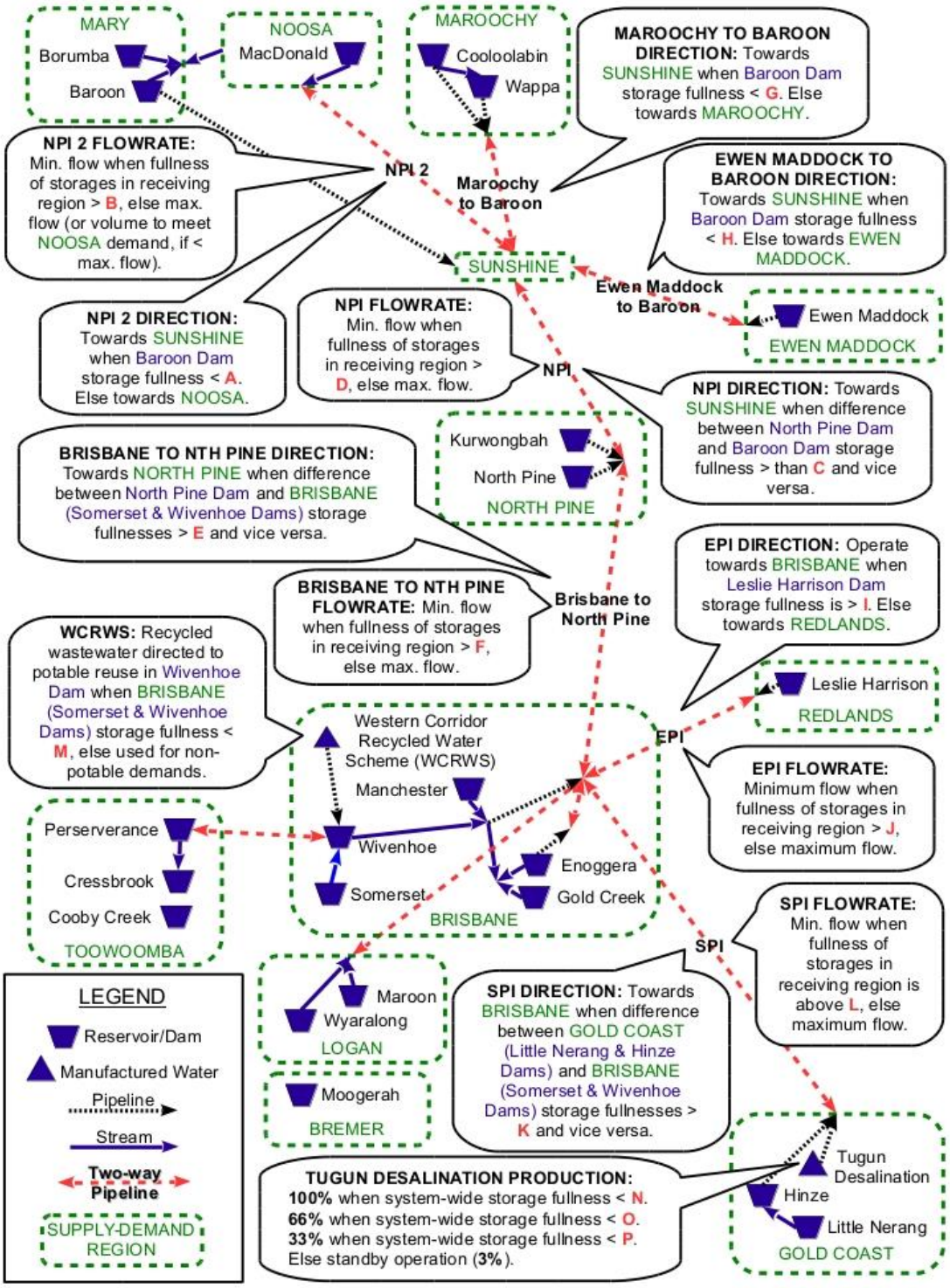

Figure S1: Schematic of the case study network, showing operating rules (call out boxes) for major infrastructure connecting supply-demand regions. The decision variables pertaining to these operating rules are highlighted in bold [**A, B, …, P]**.

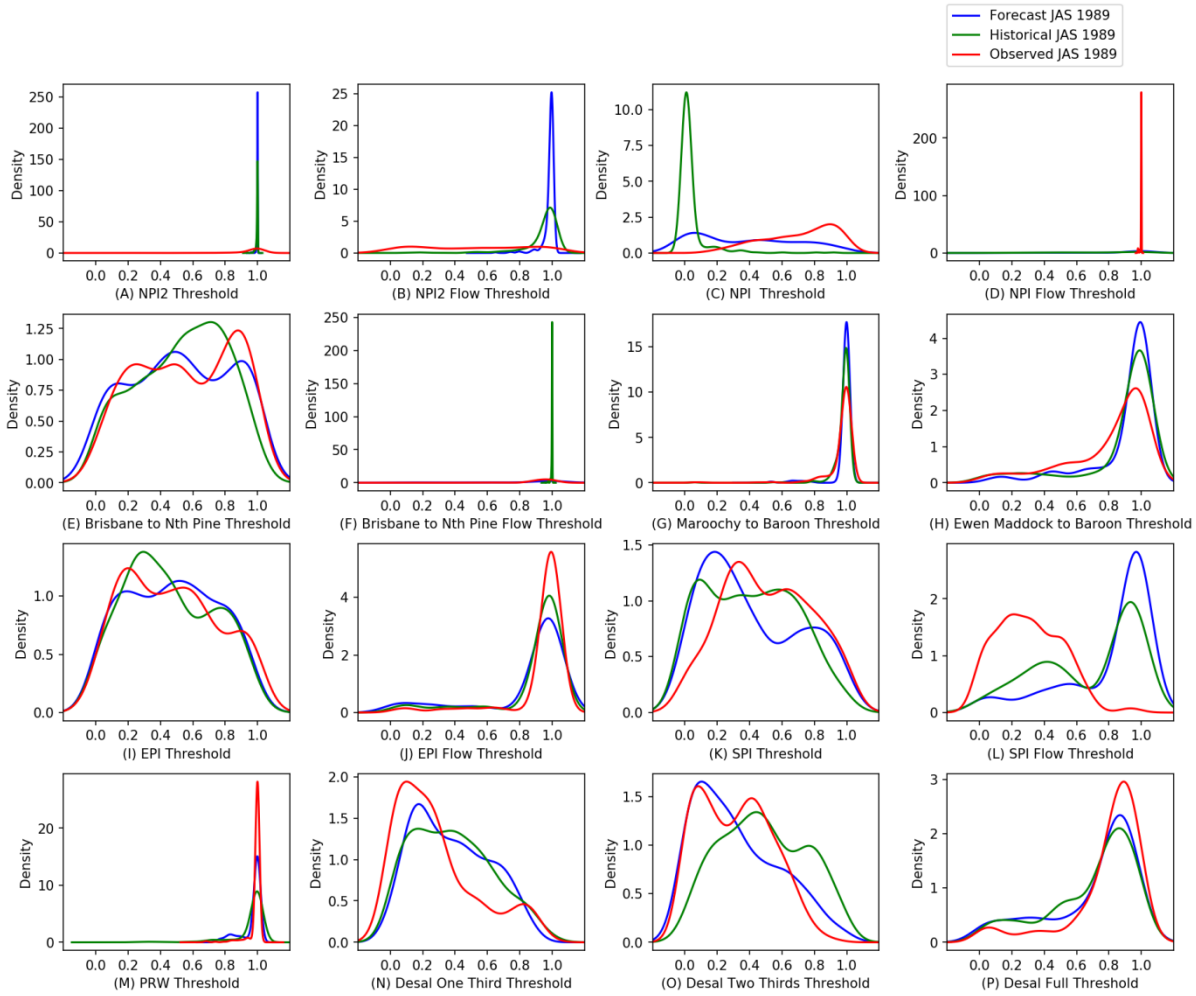

Figure S2: Distributions of decision variables A-P for July-September 1989 forecast, historical, and observed optimised scenarios, as kernel density estimation plots.

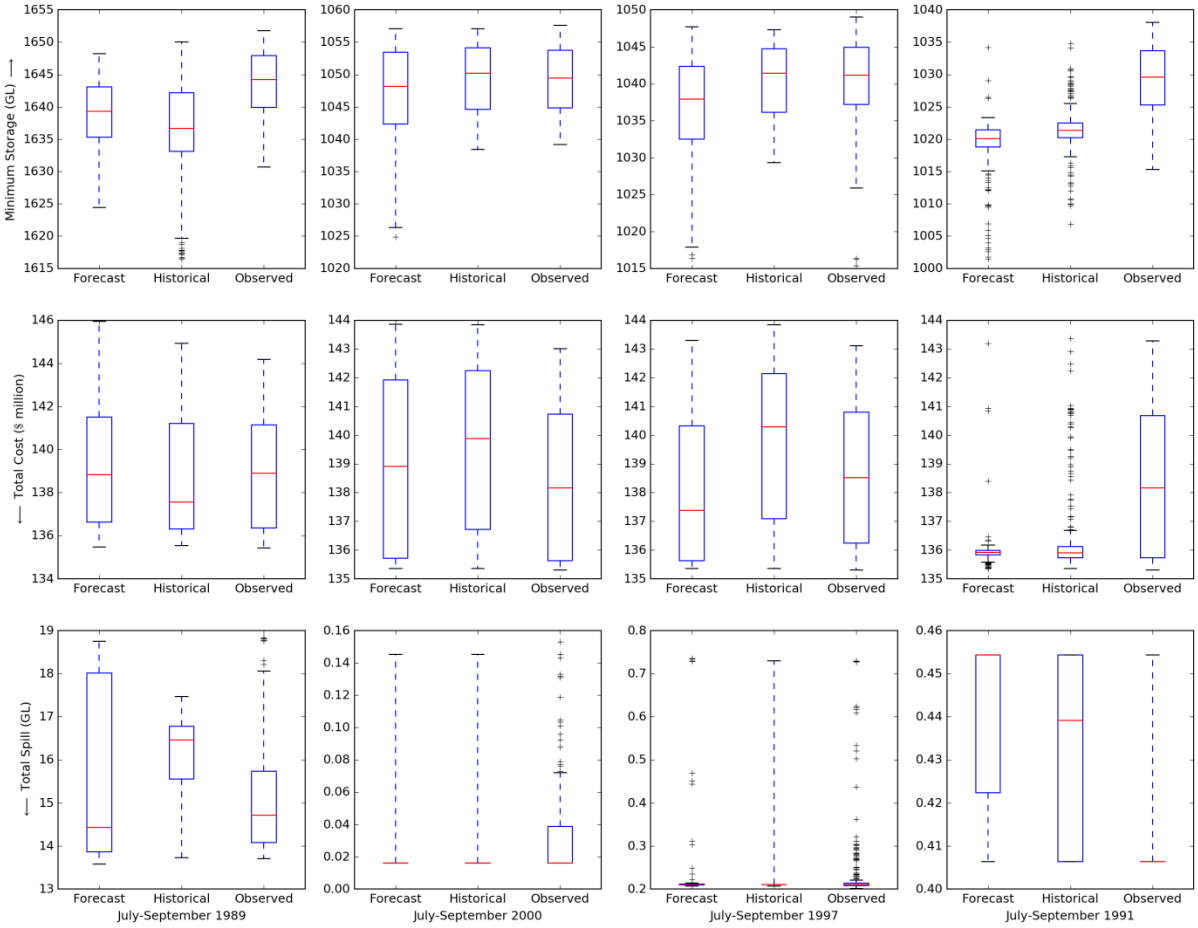

Figure S3: Boxplots of objective performance of the forecast-, historical- and observed-optimised Pareto sets for the four restrospective planning periods, simulated using the observed inflow data for each period. Each box and whisker plot indicates the distribution and range of the 200+ operating options within each Pareto set, with the boxes indicating 25^{th}-75^{th} percentiles, bars indicating 50^{th} percentiles, and whiskers indicating minimum and maximum values.