

# Performance of the GenEst Mortality Estimator Compared to The Huso and Shoefeld Estimators: Appendix

## Contents

This appendix presents comprehensive results from the simulations described in the main text of the report. The appendix comprises a description of the figures it contains, a table giving the simulation conditions in each figures, followed by the figures themselves.

## Description of the figures

Results are presented in large figures that are formatted as follows:

Each page of figures includes simulation results for 180 simulation conditions. Each page shares common simulation conditions for total mortality ( $M$ ), spatial pattern of carcasses across the wind facility, number of turbines at the wind facility, sampling fraction of turbines, plot configuration, and number of bias trials to estimate estimator parameters. These common conditions are indicated in bold at the top of the page; see the main text for descriptions of these input variables. Performance metrics for each estimator are in paired rows of panels. Carcass persistence distribution and the mean carcass persistence time to search interval ratio (e.g. Mean CP : SI = 1) are arrayed in columns of panels and annotated above the panels. Values of  $k$  and  $p$  are arrayed along the x-axes.

For each estimator, the upper row of panels shows the accuracy ratio  $\frac{\hat{M}}{M}$ , as a boxplot for each simulation condition. Axis annotation for the accuracy ratio is on the left axis with a grey reference line at 1.0 indicating perfect accuracy. Values less than 1.0 indicate underestimates and values greater than 1.0 indicate overestimates. Note that the axis has been log-transformed so that an  $x$ -fold underestimate and  $x$ -fold overestimate are visually equivalent. Boxplots with a red base indicate that the axis has been cut between the lower tick and zero because the boxplot includes zero. Boxplots indicate the median of the simulation iterations with a solid horizontal line, a box that encloses the 25th – 75th quantiles, and whiskers that extend to the 5th and 95th quantiles of the results. Well-performing estimators should produce boxplots centered on the grey reference line with little variation around it, as in the top left panel of Figure A1.

The upper row of panels for each estimator also shows the CI coverage for a nominal 90% CI with blue asterisks. There is no axis annotation for CI coverage: 0% coverage is on the bottom of the axis, 100% coverage is at the top of the axis, a light blue line indicates 90% coverage, and the grey reference line for the accuracy ratio also indicates 50% CI coverage. Well-performing estimators should produce a series of asterisks that fall perfectly on the blue reference line, as in the top right panel of Figure A1.

The lower row of panels for each estimator indicates the relative precision of the estimator, given as the width of the 90% CI divided by the known, true mortality ( $M$ ). Smaller values indicate higher precision. The grey dotted reference line indicates the median relative precision for all simulation conditions per page. The value is therefore arbitrary but gives a visual indication of estimator performance relative to other estimators for simulation conditions on the same page. Boxplots indicate the median of the simulation

Performance of the GenEst Statistical Mortality Estimator iterations with a solid horizontal line, a box that encloses the 25th – 75th quantiles, and whiskers that extend to the 5th and 95th quantiles of the results. Note that the y-axis is log-transformed. For boxplots that include zero, the y-axis is cut below the lower tick, and the base of the boxplot is red. Zero-valued relative precision occurs when no carcasses were detected on search, resulting in an estimate of zero with no variance. Well-performing estimators should produce small values of this metric with little variance, as in the left-hand panel for the GenEst – fixed k estimator in Figure A1.

## Simulation conditions for each figure

Table 1. Figure references for simulation conditions. See main text for explanation of simulation conditions

Figure	M	N bias trials	N turbines	Sampling fraction	Spatial fatality pattern	Plot configuration
A1	1000	Inf	100	1	uniform	uniform
A2	1000	Inf	100	1	uniform	vary
A3	1000	Inf	100	1	vary	uniform
A4	1000	Inf	100	1	vary	vary
A5	1000	Inf	100	0.3	uniform	uniform
A6	1000	Inf	100	0.3	uniform	vary
A7	1000	Inf	100	0.3	vary	uniform
A8	1000	Inf	100	0.3	vary	vary
A9	1000	Inf	10	1	uniform	uniform
A10	1000	Inf	10	1	uniform	vary
A11	1000	Inf	10	1	vary	uniform
A12	1000	Inf	10	1	vary	vary
A13	1000	Inf	10	0.3	uniform	uniform
A14	1000	Inf	10	0.3	uniform	vary
A15	1000	Inf	10	0.3	vary	uniform
A16	1000	Inf	10	0.3	vary	vary
A17	1000	50	100	1	uniform	uniform
A18	1000	50	100	1	uniform	vary
A19	1000	50	100	1	vary	uniform
A20	1000	50	100	1	vary	vary
A21	1000	50	100	0.3	uniform	uniform
A22	1000	50	100	0.3	uniform	vary
A23	1000	50	100	0.3	vary	uniform
A24	1000	50	100	0.3	vary	vary
A25	1000	50	10	1	uniform	uniform
A26	1000	50	10	1	uniform	vary

Figure	M	N bias trials	N turbines	Sampling fraction	Spatial fatality pattern	Plot configuration
A27	1000	50	10	1	vary	uniform
A28	1000	50	10	1	vary	vary
A29	1000	50	10	0.3	uniform	uniform
A30	1000	50	10	0.3	uniform	vary
A31	1000	50	10	0.3	vary	uniform
A32	1000	50	10	0.3	vary	vary
A33	1000	10	100	1	uniform	uniform
A34	1000	10	100	1	uniform	vary
A35	1000	10	100	1	vary	uniform
A36	1000	10	100	1	vary	vary
A37	1000	10	100	0.3	uniform	uniform
A38	1000	10	100	0.3	uniform	vary
A39	1000	10	100	0.3	vary	uniform
A40	1000	10	100	0.3	vary	vary
A41	1000	10	10	1	uniform	uniform
A42	1000	10	10	1	uniform	vary
A43	1000	10	10	1	vary	uniform
A44	1000	10	10	1	vary	vary
A45	1000	10	10	0.3	uniform	uniform
A46	1000	10	10	0.3	uniform	vary
A47	1000	10	10	0.3	vary	uniform
A48	1000	10	10	0.3	vary	vary
A49	100	Inf	100	1	uniform	uniform
A50	100	Inf	100	1	uniform	vary
A51	100	Inf	100	1	vary	uniform
A52	100	Inf	100	1	vary	vary
A53	100	Inf	100	0.3	uniform	uniform
A54	100	Inf	100	0.3	uniform	vary
A55	100	Inf	100	0.3	vary	uniform
A56	100	Inf	100	0.3	vary	vary
A57	100	Inf	10	1	uniform	uniform
A58	100	Inf	10	1	uniform	vary
A59	100	Inf	10	1	vary	uniform
A60	100	Inf	10	1	vary	vary
A61	100	Inf	10	0.3	uniform	uniform
A62	100	Inf	10	0.3	uniform	vary

Figure	M	N bias trials	N turbines	Sampling fraction	Spatial fatality pattern	Plot configuration
A63	100	Inf	10	0.3	vary	uniform
A64	100	Inf	10	0.3	vary	vary
A65	100	50	100	1	uniform	uniform
A66	100	50	100	1	uniform	vary
A67	100	50	100	1	vary	uniform
A68	100	50	100	1	vary	vary
A69	100	50	100	0.3	uniform	uniform
A70	100	50	100	0.3	uniform	vary
A71	100	50	100	0.3	vary	uniform
A72	100	50	100	0.3	vary	vary
A73	100	50	10	1	uniform	uniform
A74	100	50	10	1	uniform	vary
A75	100	50	10	1	vary	uniform
A76	100	50	10	1	vary	vary
A77	100	50	10	0.3	uniform	uniform
A78	100	50	10	0.3	uniform	vary
A79	100	50	10	0.3	vary	uniform
A80	100	50	10	0.3	vary	vary
A81	100	10	100	1	uniform	uniform
A82	100	10	100	1	uniform	vary
A83	100	10	100	1	vary	uniform
A84	100	10	100	1	vary	vary
A85	100	10	100	0.3	uniform	uniform
A86	100	10	100	0.3	uniform	vary
A87	100	10	100	0.3	vary	uniform
A88	100	10	100	0.3	vary	vary
A89	100	10	10	1	uniform	uniform
A90	100	10	10	1	uniform	vary
A91	100	10	10	1	vary	uniform
A92	100	10	10	1	vary	vary
A93	100	10	10	0.3	uniform	uniform
A94	100	10	10	0.3	uniform	vary
A95	100	10	10	0.3	vary	uniform
A96	100	10	10	0.3	vary	vary
A97	10	Inf	100	1	uniform	uniform
A98	10	Inf	100	1	uniform	vary

Figure	M	N bias trials	N turbines	Sampling fraction	Spatial fatality pattern	Plot configuration
A99	10	Inf	100	1	vary	uniform
A100	10	Inf	100	1	vary	vary
A101	10	Inf	100	0.3	uniform	uniform
A102	10	Inf	100	0.3	uniform	vary
A103	10	Inf	100	0.3	vary	uniform
A104	10	Inf	100	0.3	vary	vary
A105	10	Inf	10	1	uniform	uniform
A106	10	Inf	10	1	uniform	vary
A107	10	Inf	10	1	vary	uniform
A108	10	Inf	10	1	vary	vary
A109	10	Inf	10	0.3	uniform	uniform
A110	10	Inf	10	0.3	uniform	vary
A111	10	Inf	10	0.3	vary	uniform
A112	10	Inf	10	0.3	vary	vary
A113	10	50	100	1	uniform	uniform
A114	10	50	100	1	uniform	vary
A115	10	50	100	1	vary	uniform
A116	10	50	100	1	vary	vary
A117	10	50	100	0.3	uniform	uniform
A118	10	50	100	0.3	uniform	vary
A119	10	50	100	0.3	vary	uniform
A120	10	50	100	0.3	vary	vary
A121	10	50	10	1	uniform	uniform
A122	10	50	10	1	uniform	vary
A123	10	50	10	1	vary	uniform
A124	10	50	10	1	vary	vary
A125	10	50	10	0.3	uniform	uniform
A126	10	50	10	0.3	uniform	vary
A127	10	50	10	0.3	vary	uniform
A128	10	50	10	0.3	vary	vary
A129	10	10	100	1	uniform	uniform
A130	10	10	100	1	uniform	vary
A131	10	10	100	1	vary	uniform
A132	10	10	100	1	vary	vary
A133	10	10	100	0.3	uniform	uniform
A134	10	10	100	0.3	uniform	vary

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Figure	M	N bias trials	N turbines	Sampling fraction	Spatial fatality pattern	Plot configuration
A135	10	10	100	0.3	vary	uniform
A136	10	10	100	0.3	vary	vary
A137	10	10	10	1	uniform	uniform
A138	10	10	10	1	uniform	vary
A139	10	10	10	1	vary	uniform
A140	10	10	10	1	vary	vary
A141	10	10	10	0.3	uniform	uniform
A142	10	10	10	0.3	uniform	vary
A143	10	10	10	0.3	vary	uniform
A144	10	10	10	0.3	vary	vary

Performance of the GenEst Statistical Mortality Estimator

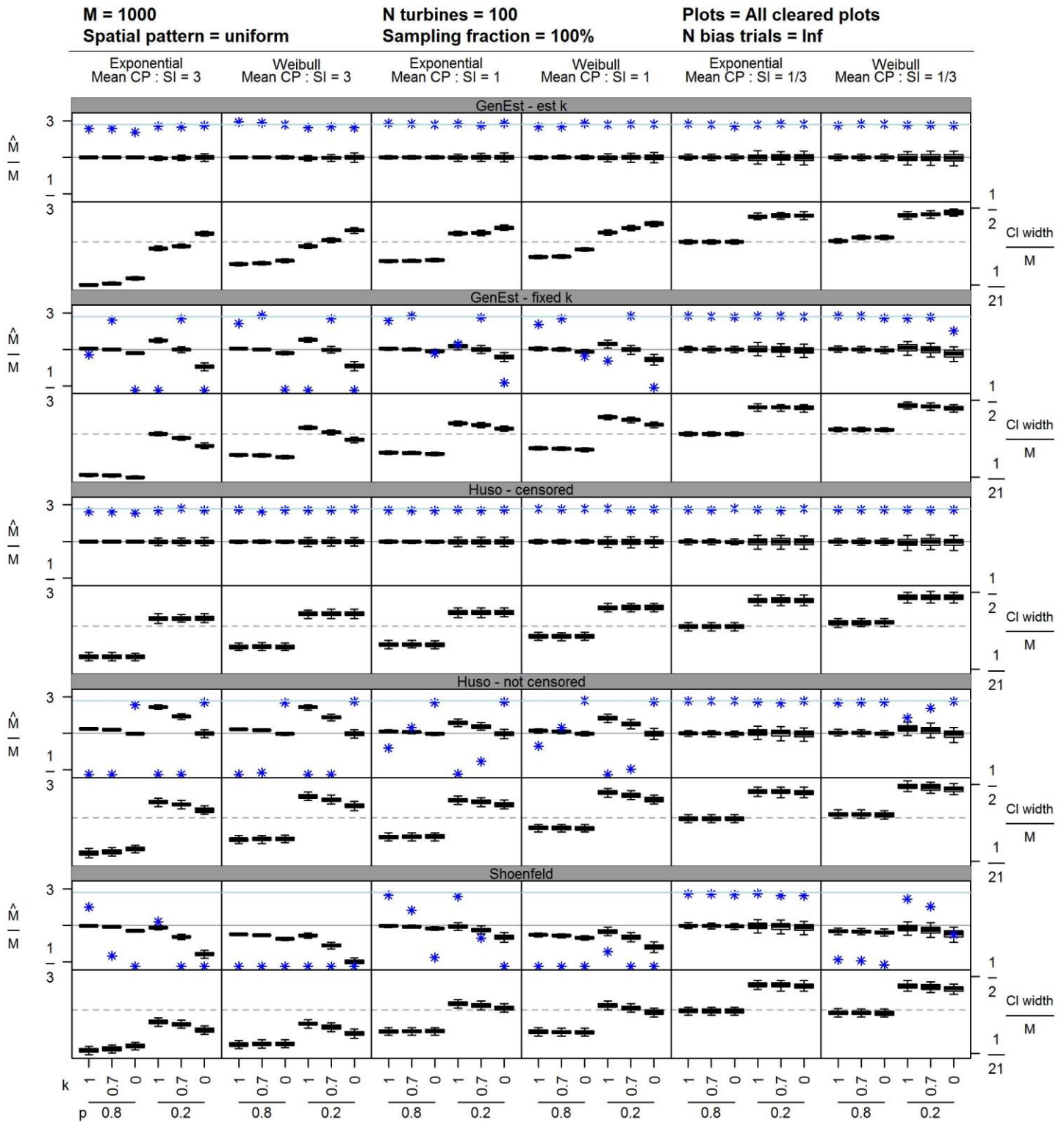


Figure A1. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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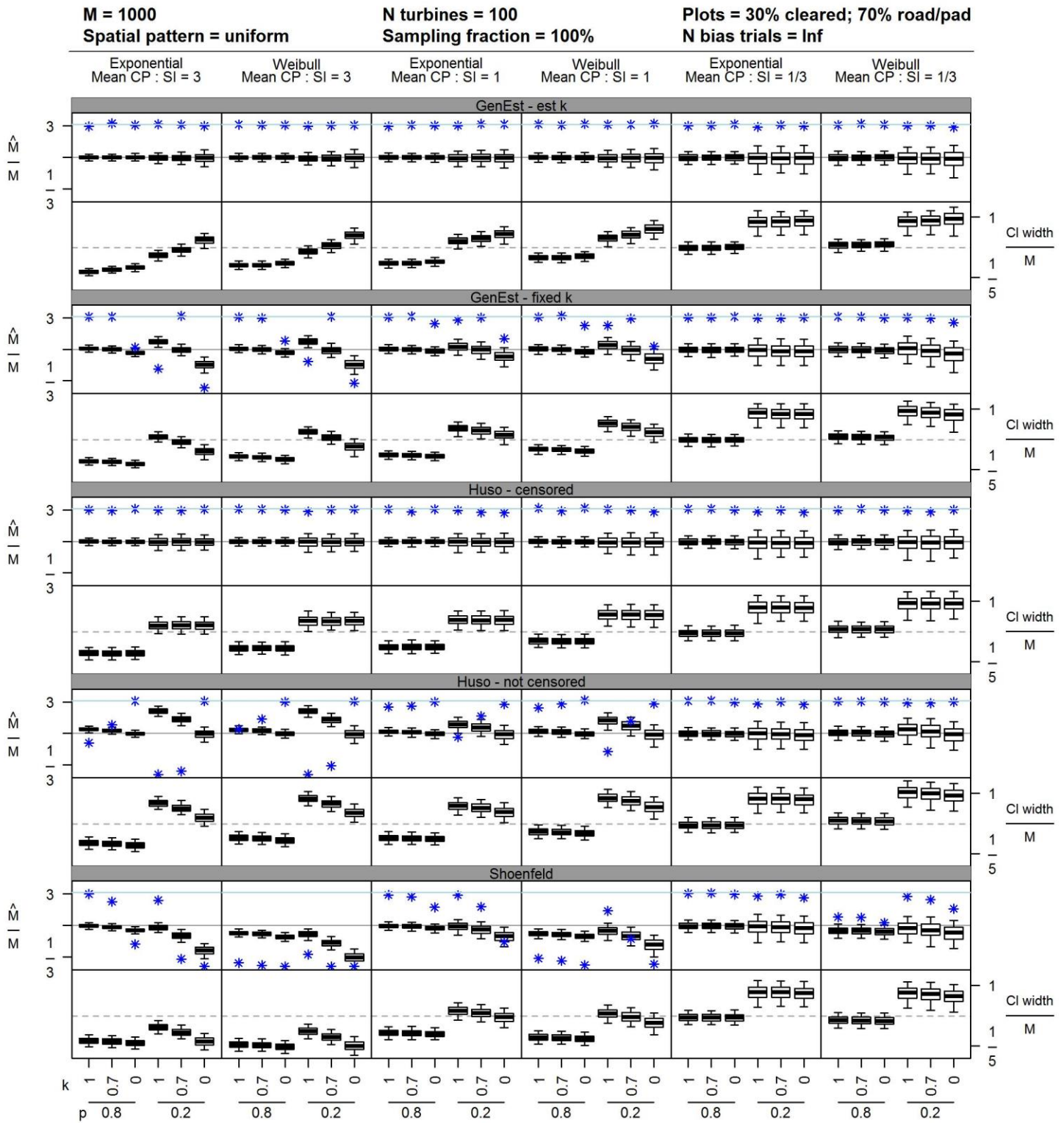


Figure A2. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



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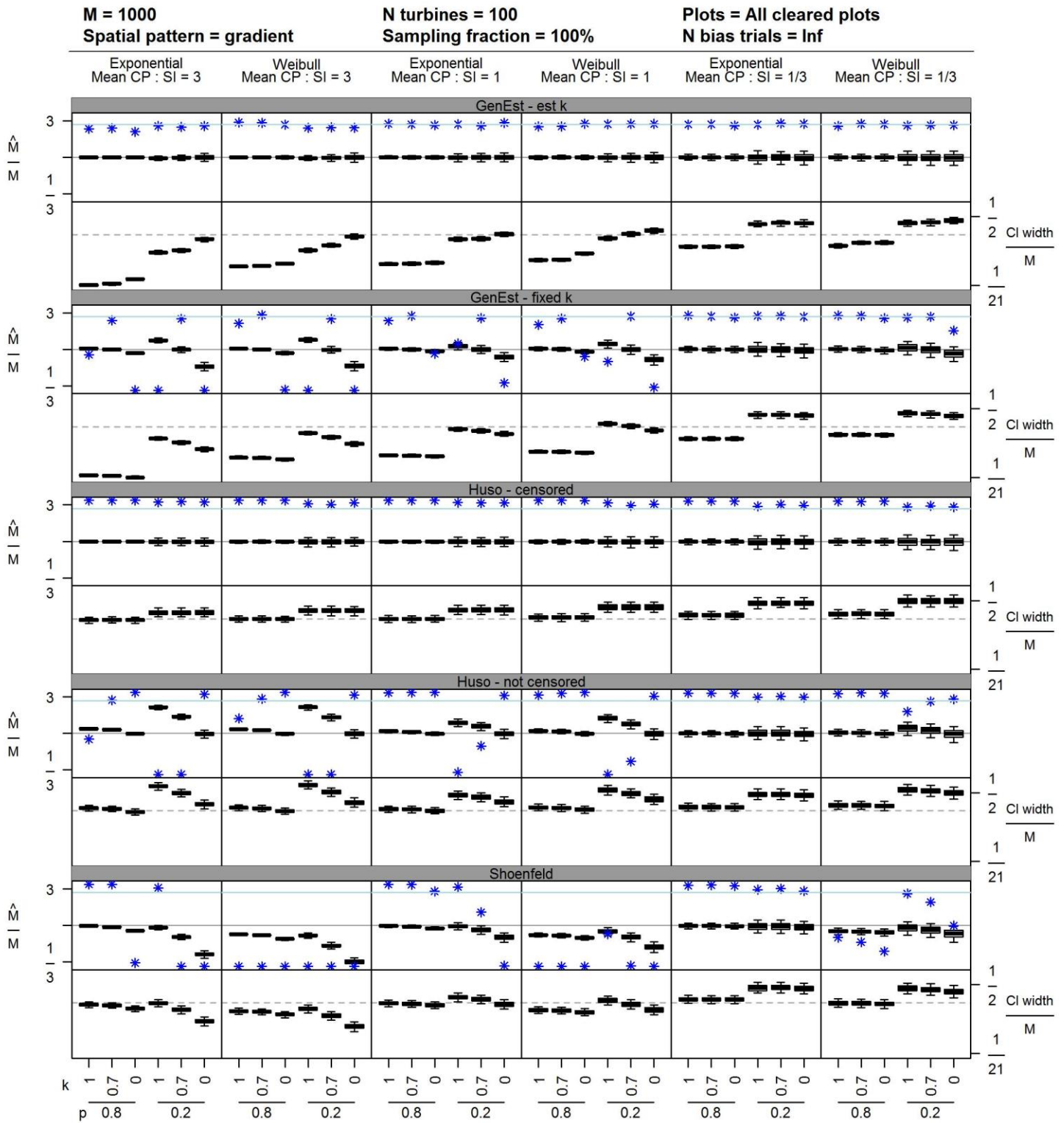


Figure A3. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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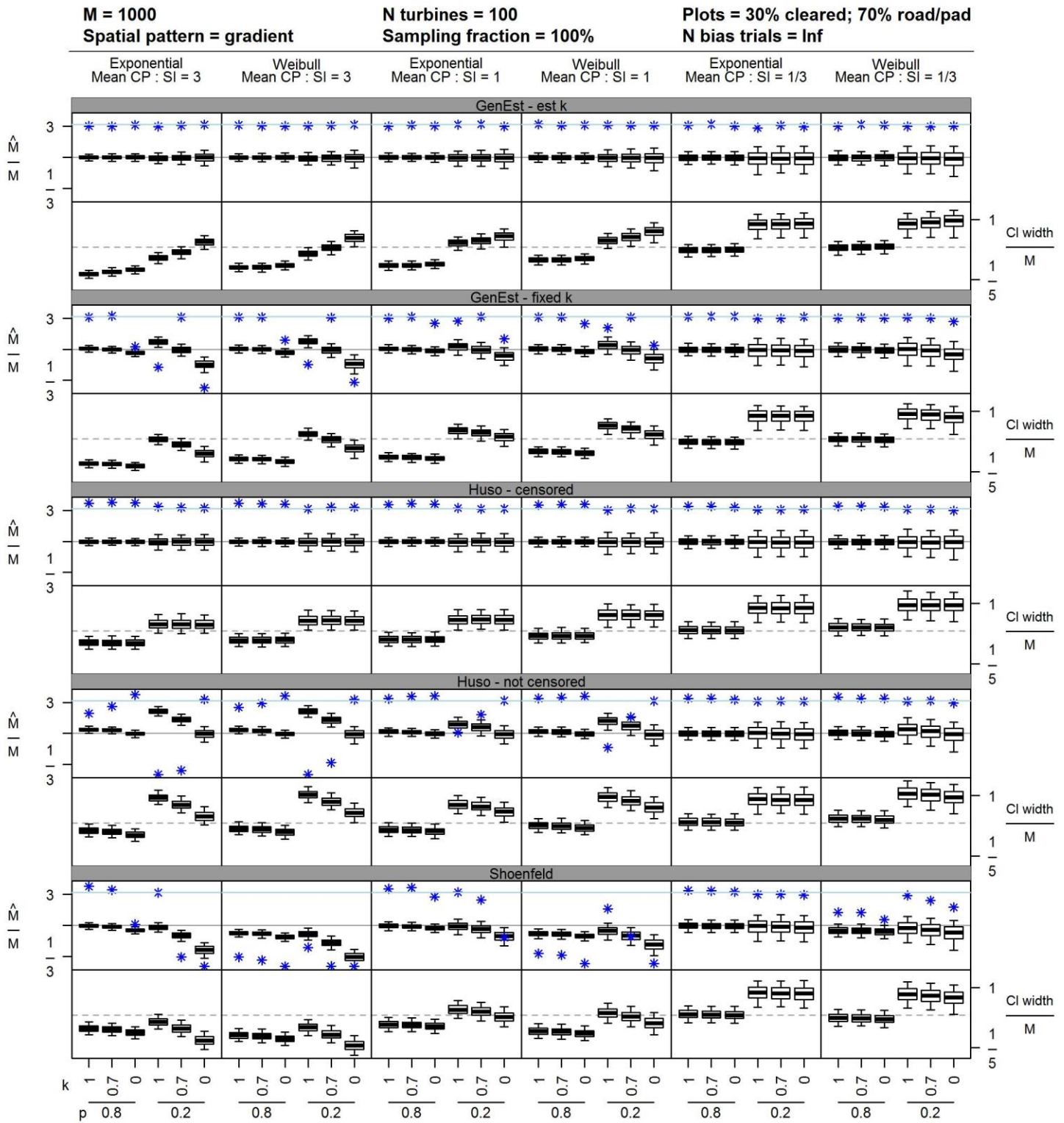


Figure A4. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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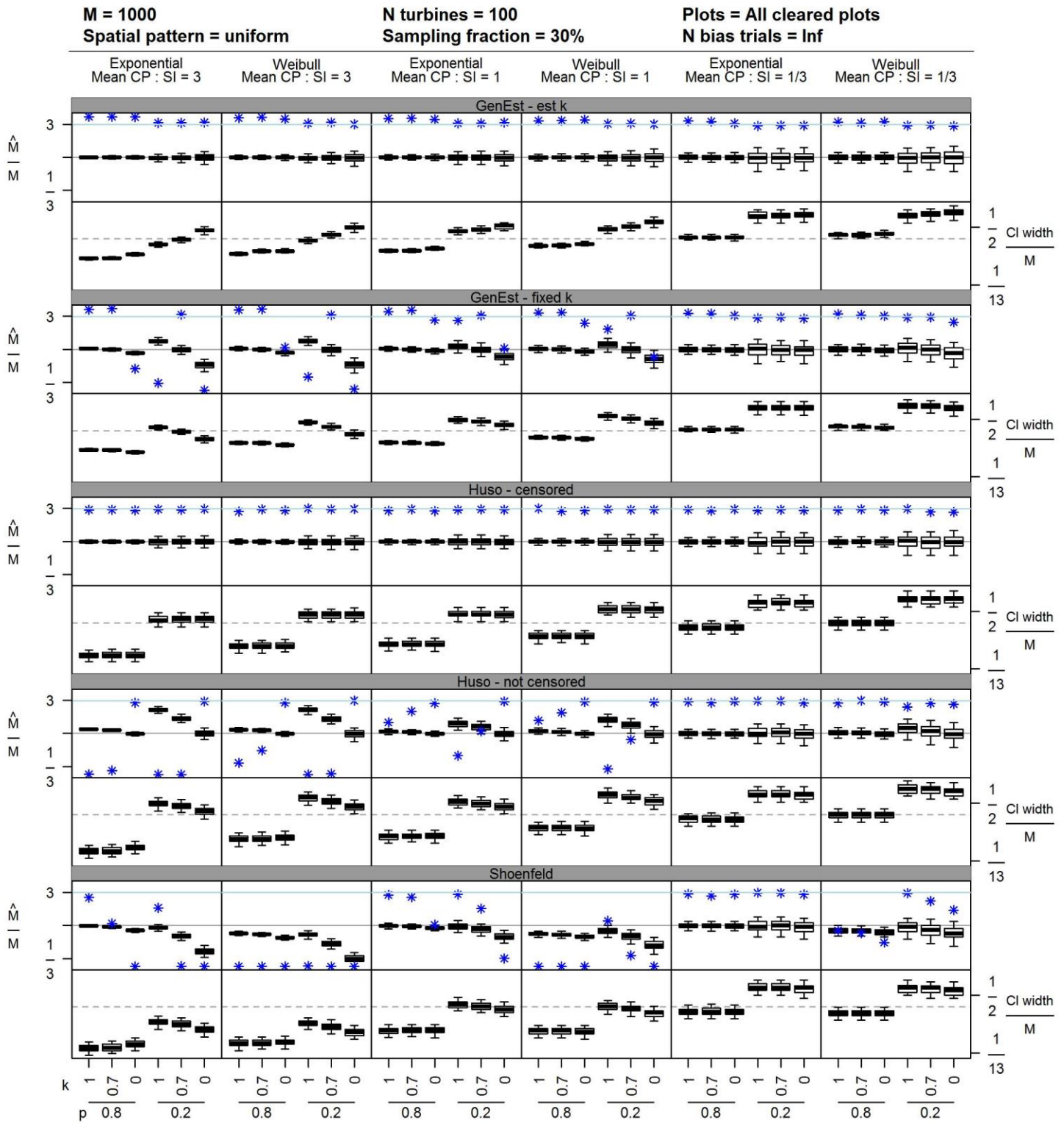


Figure A5. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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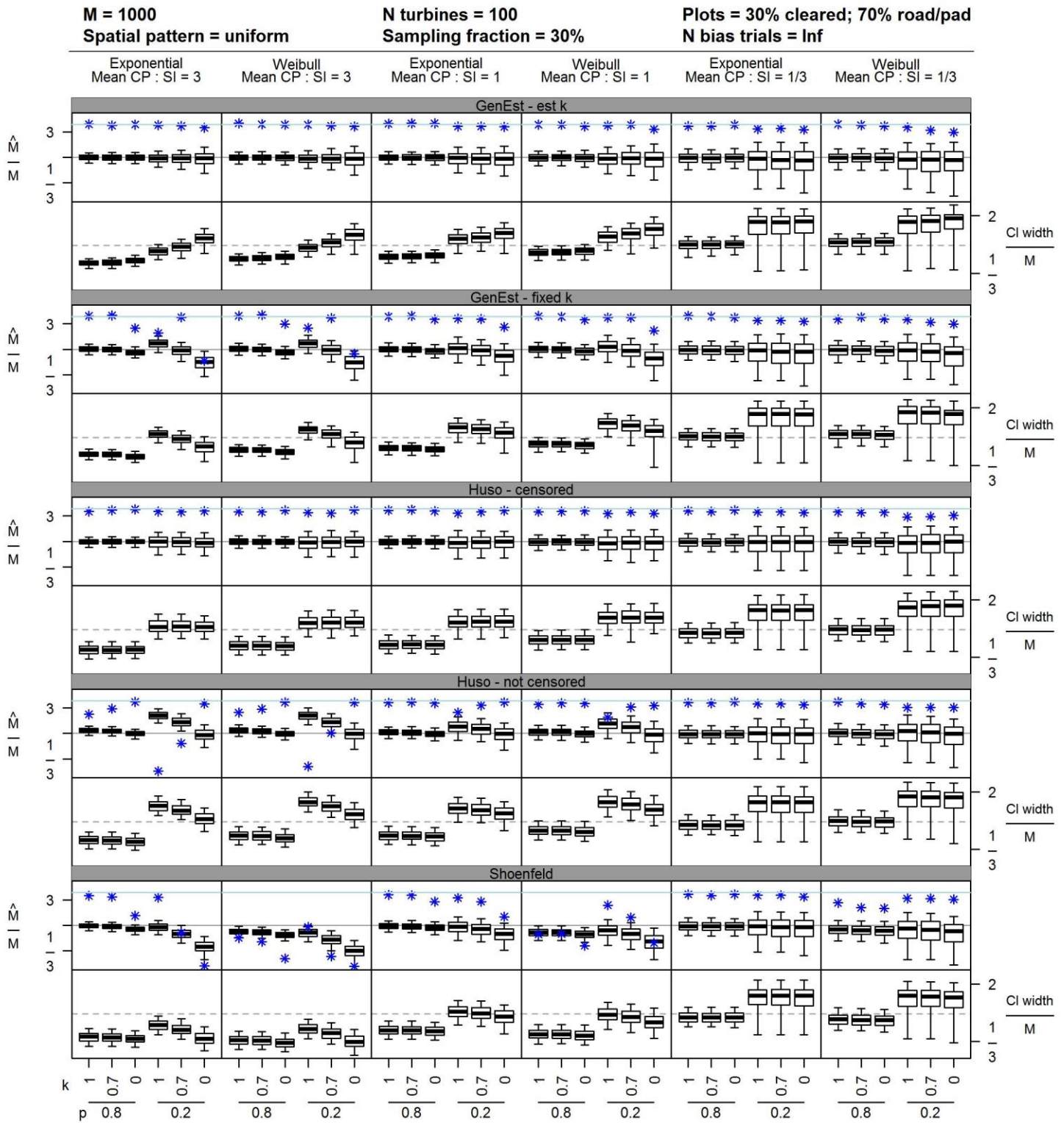


Figure A6. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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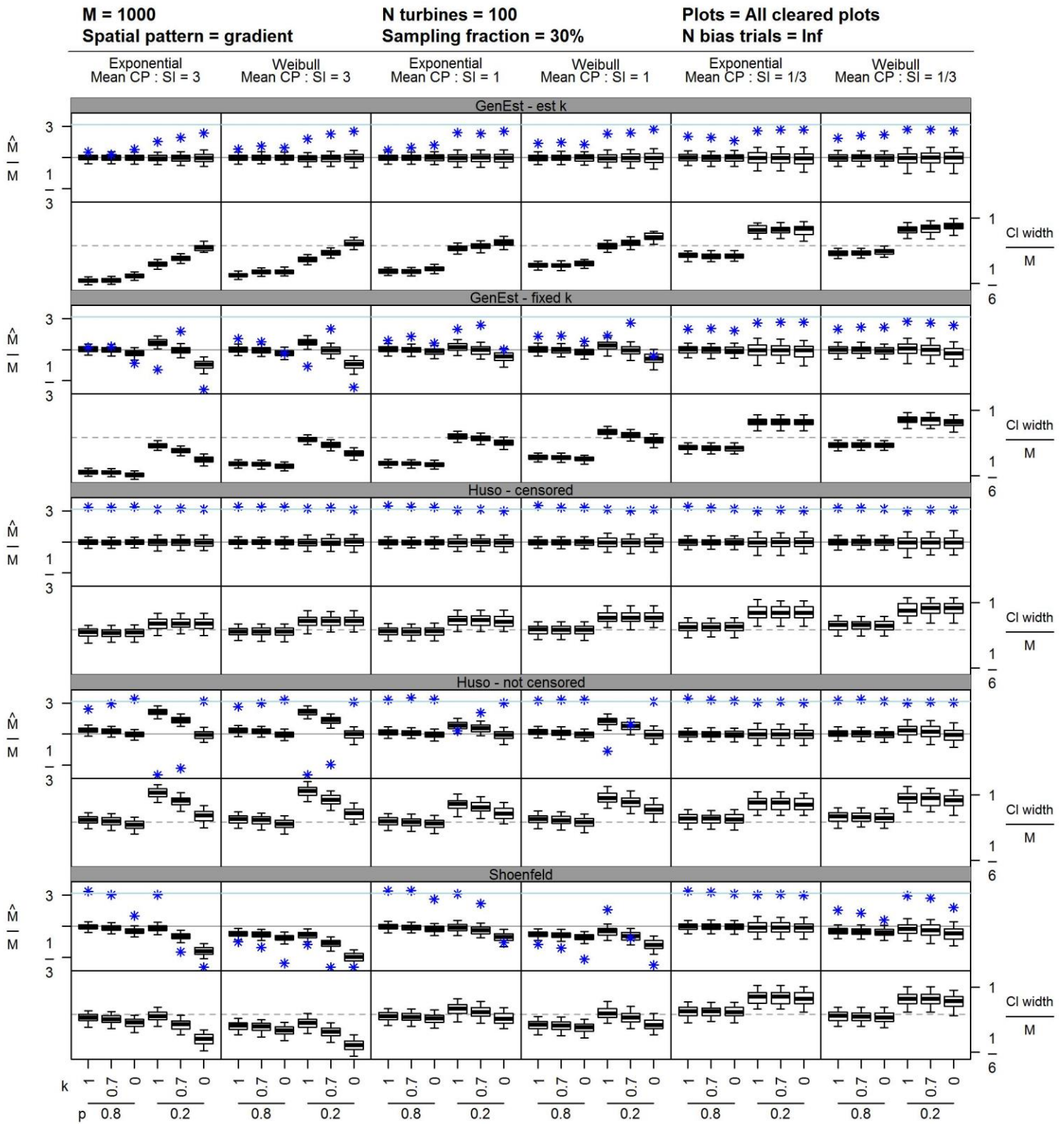


Figure A7. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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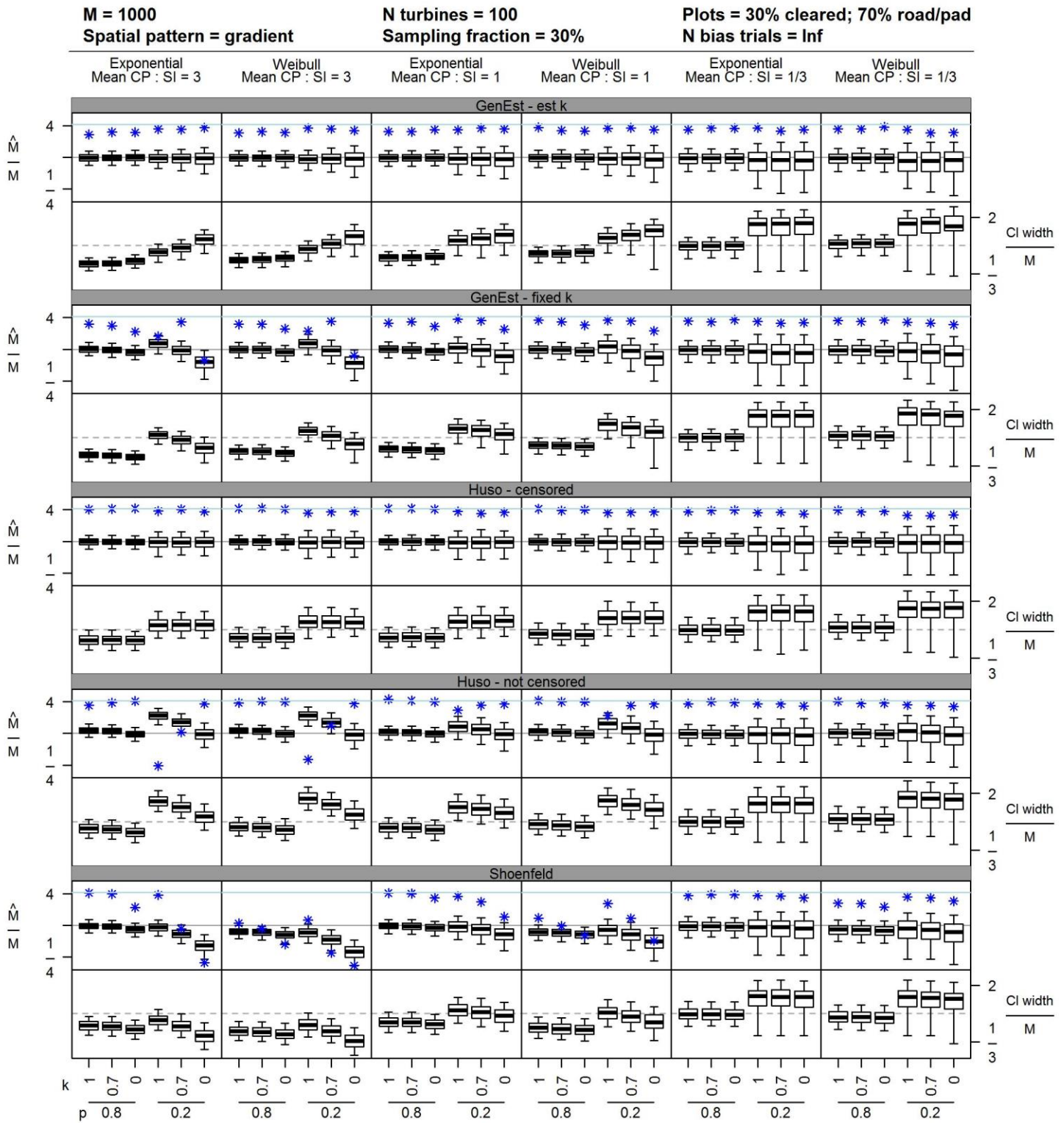


Figure A8. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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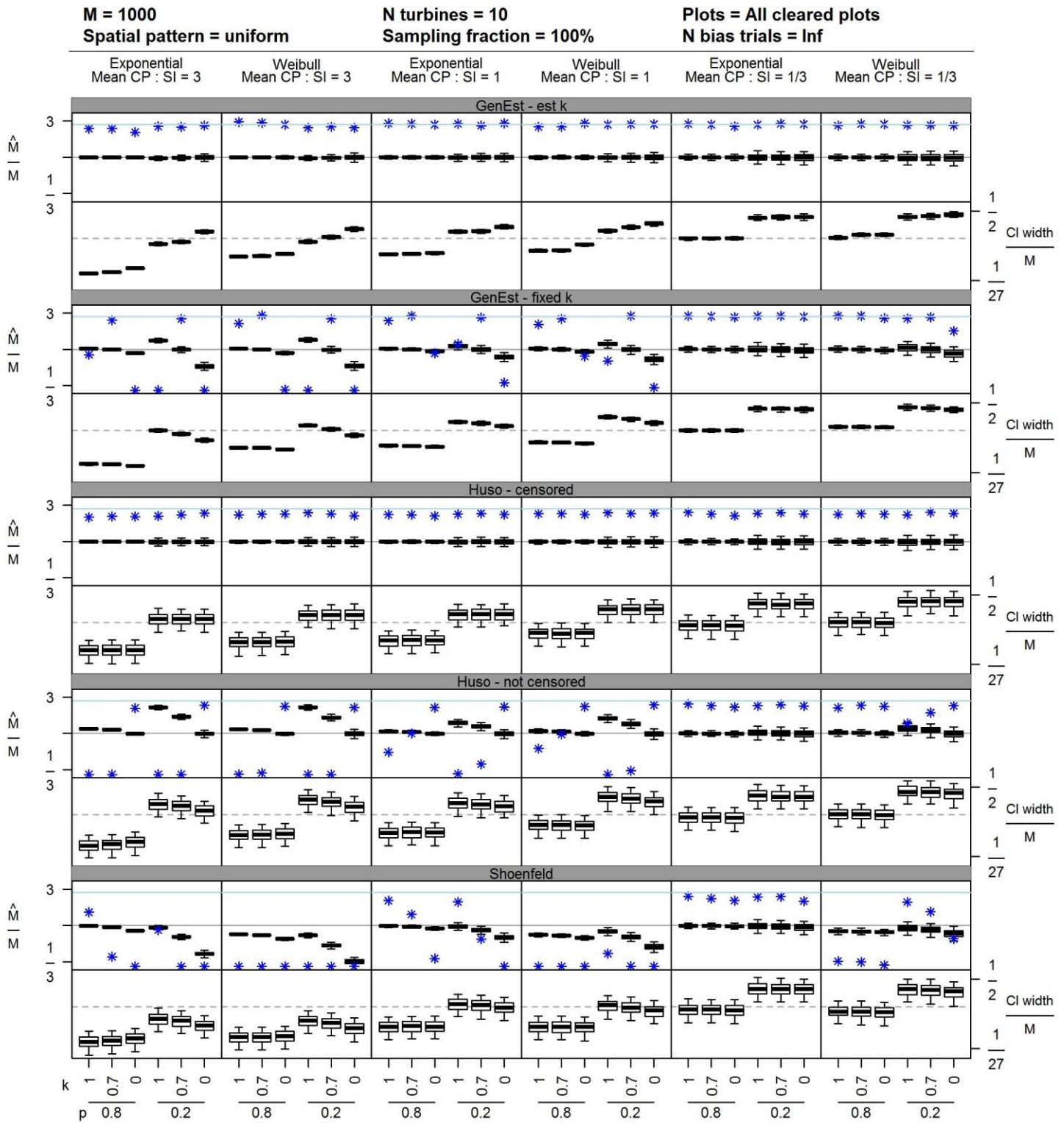


Figure A9. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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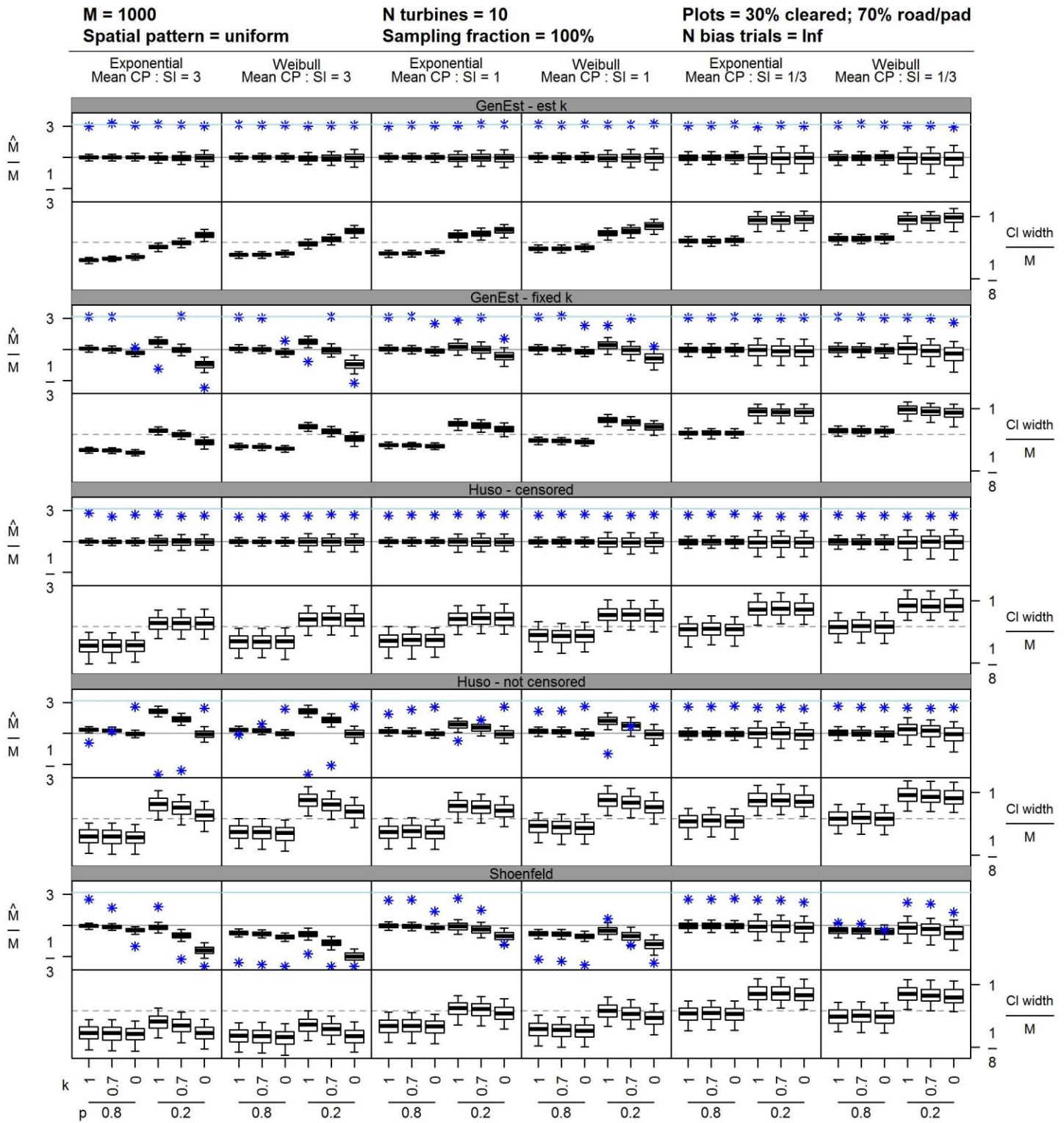


Figure A10. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



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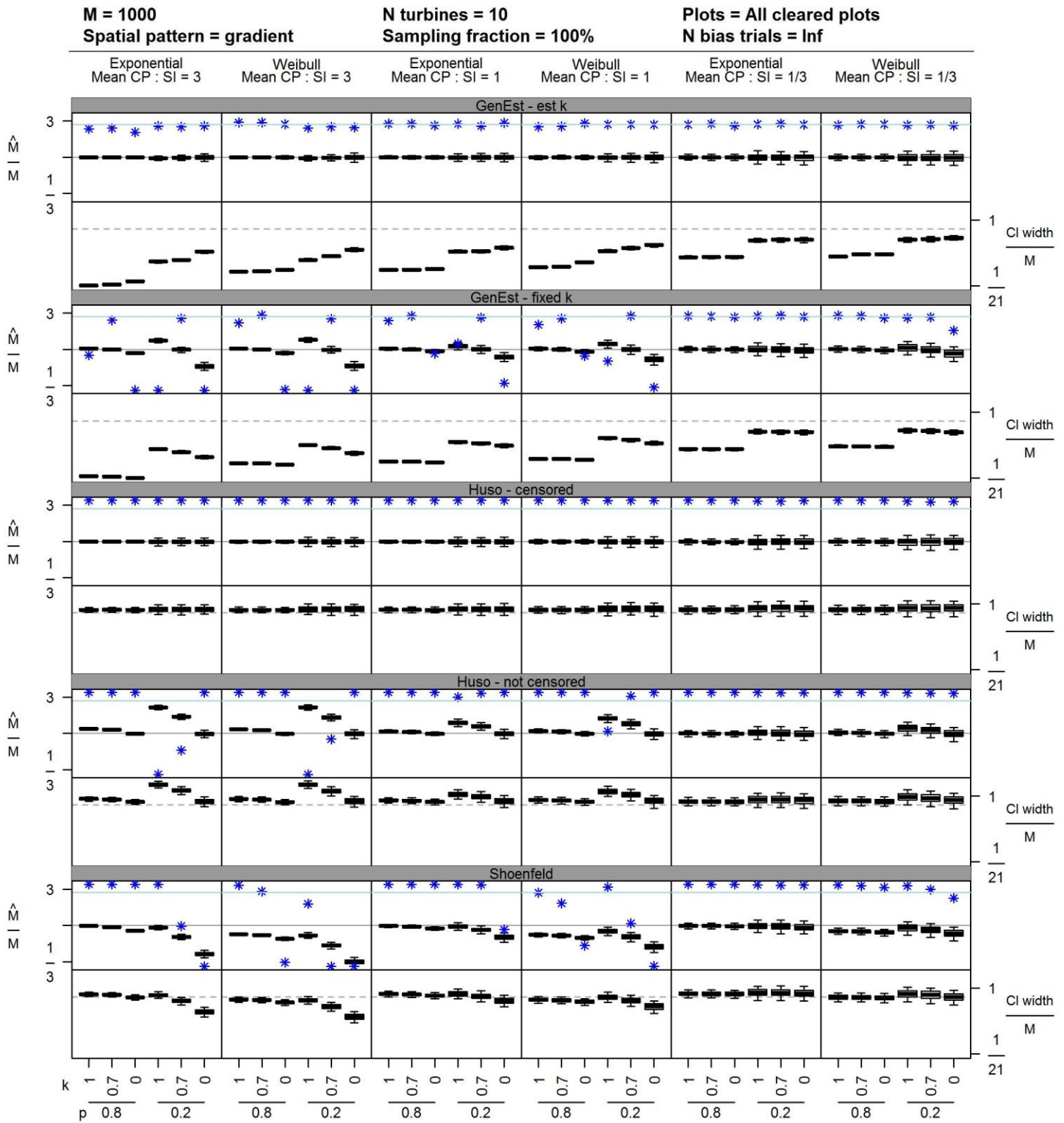


Figure A11. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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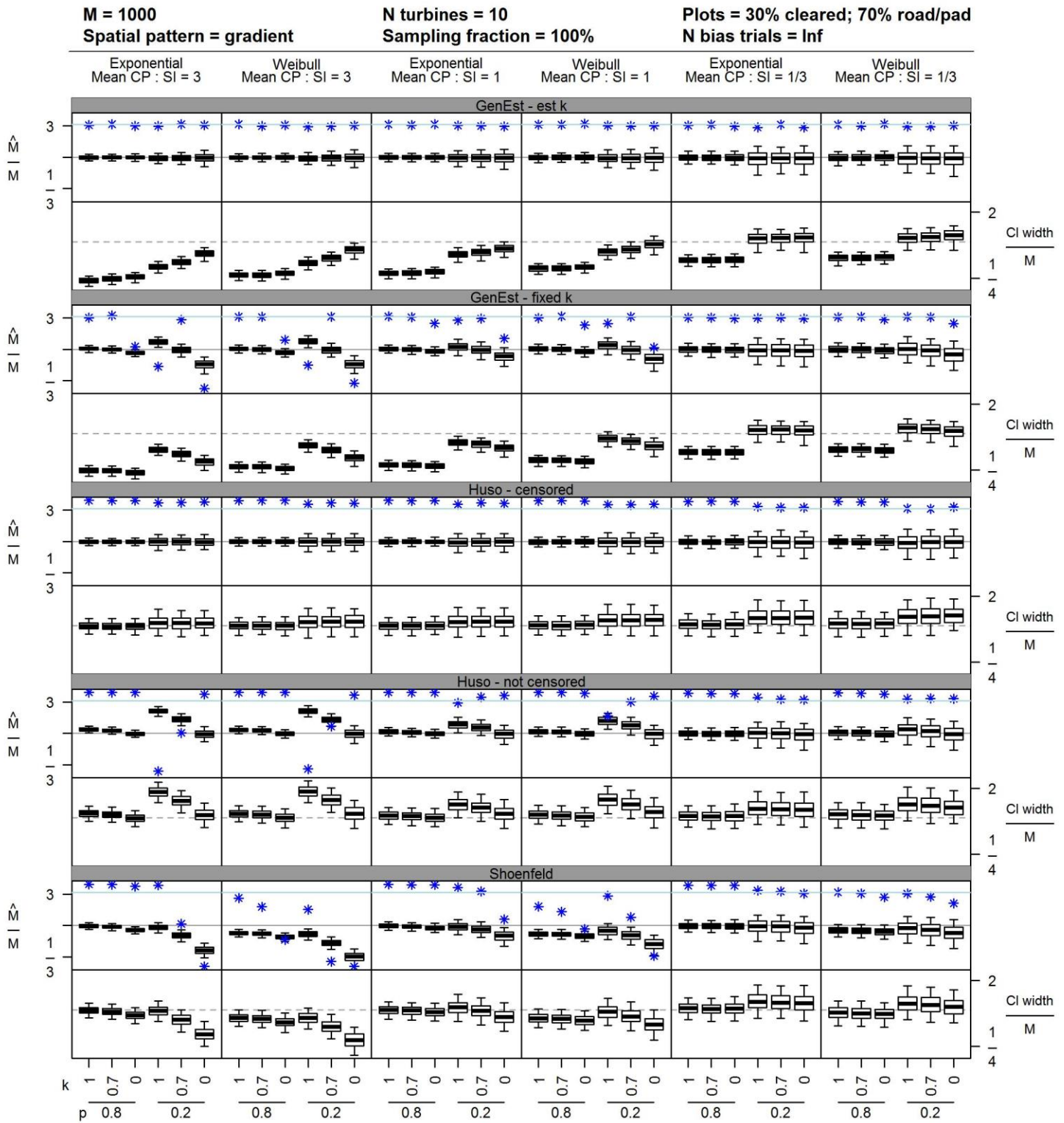


Figure A12. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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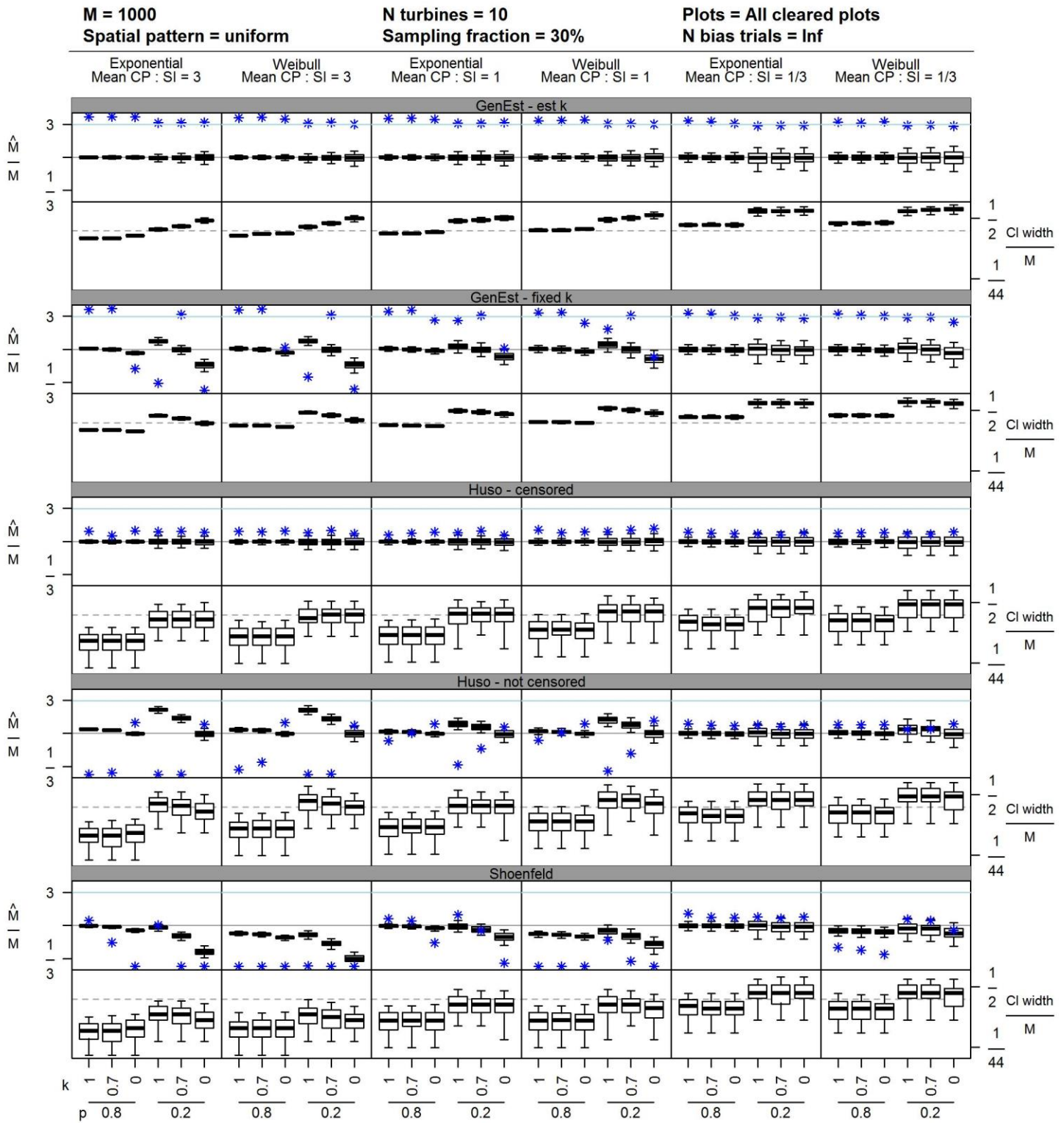


Figure A13. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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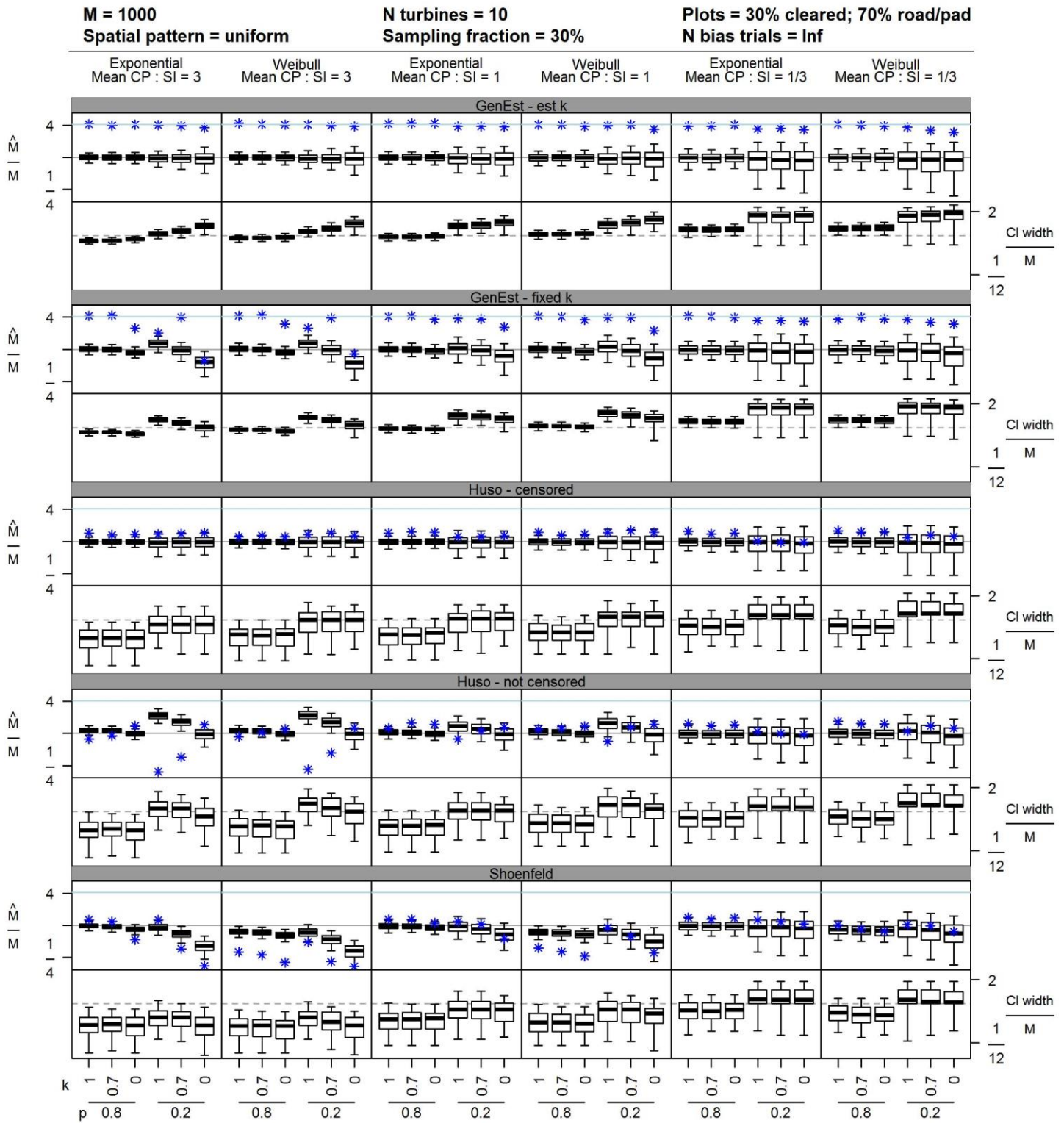


Figure A14. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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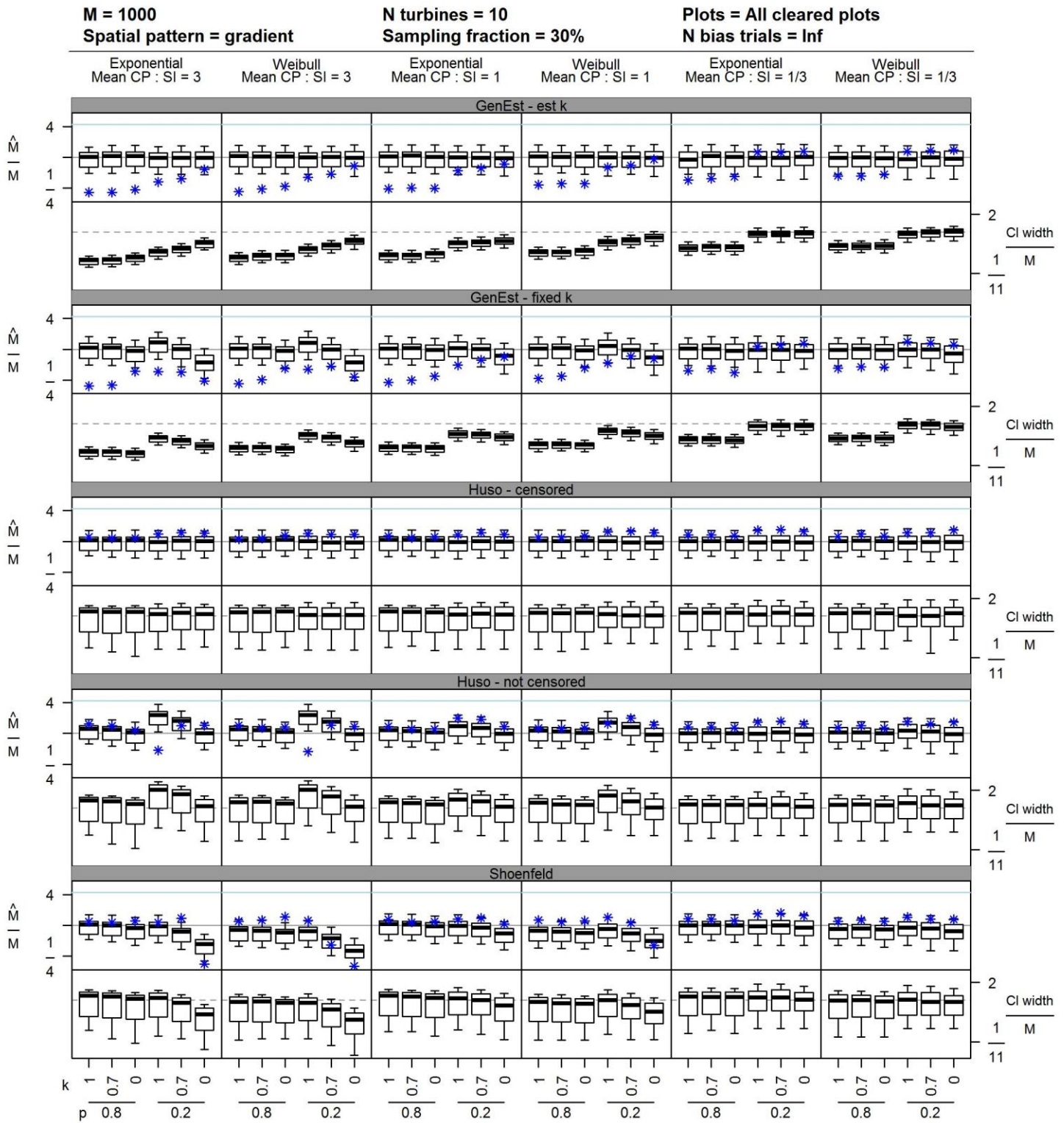


Figure A15. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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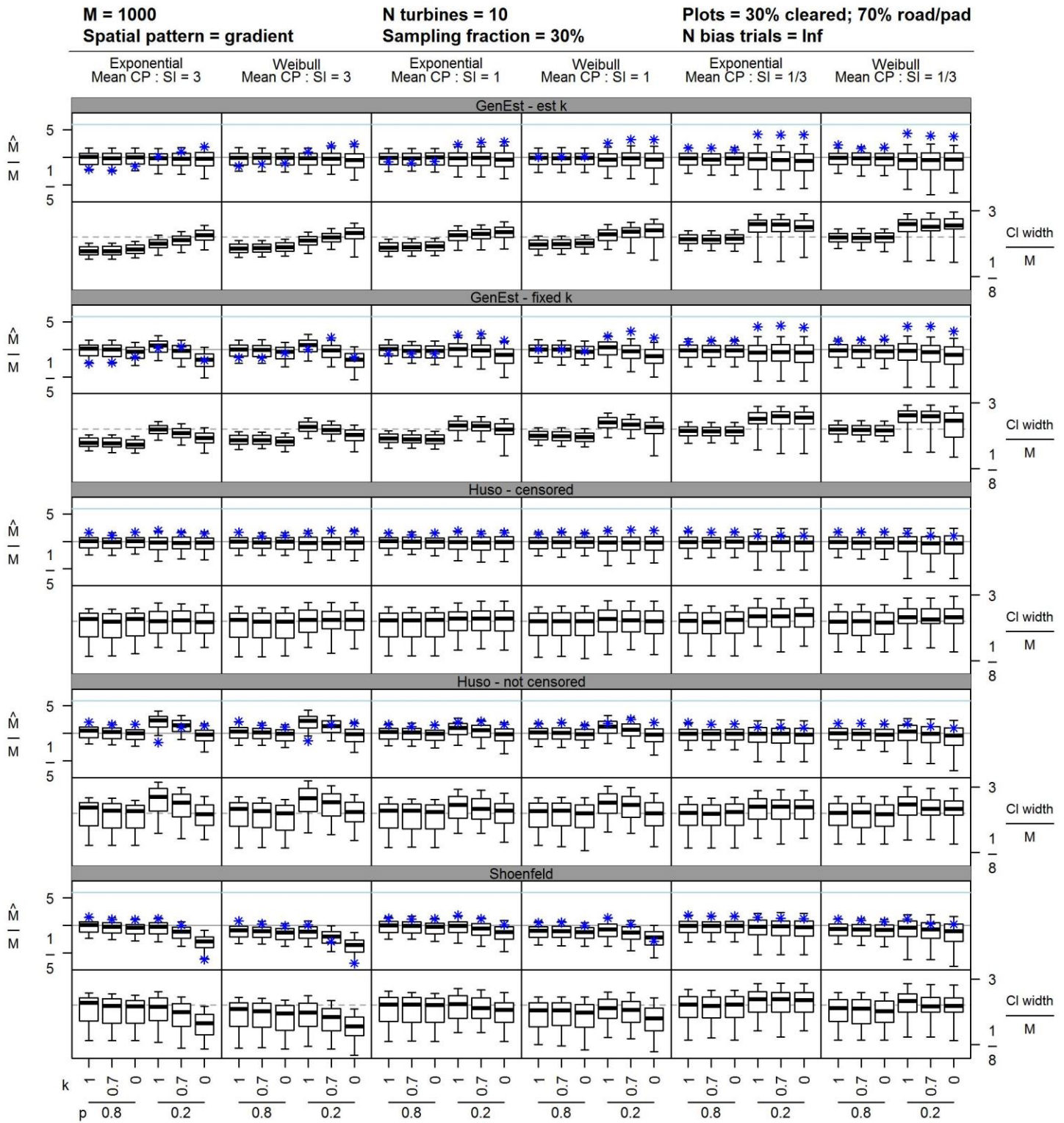


Figure A16. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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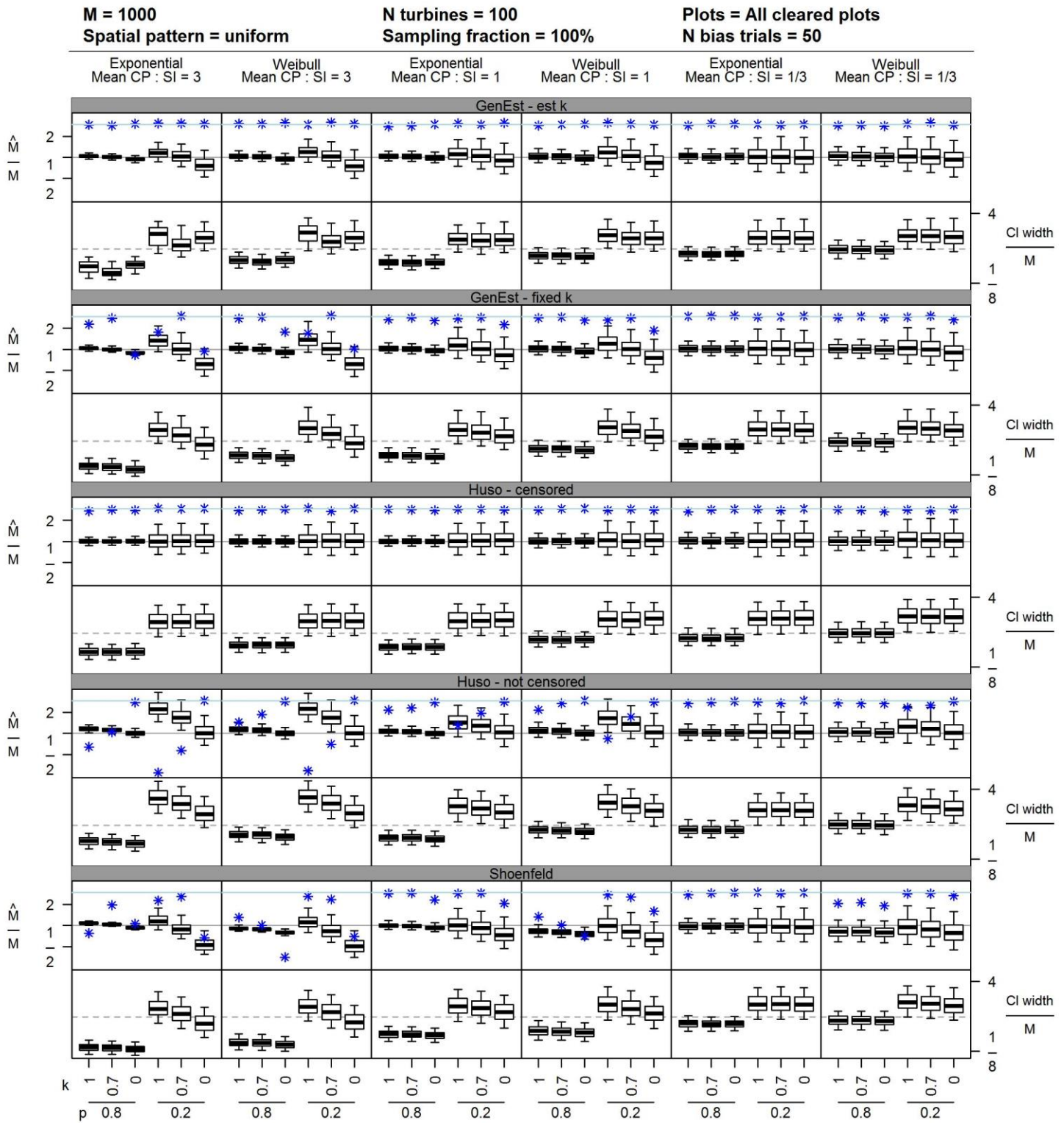


Figure A17. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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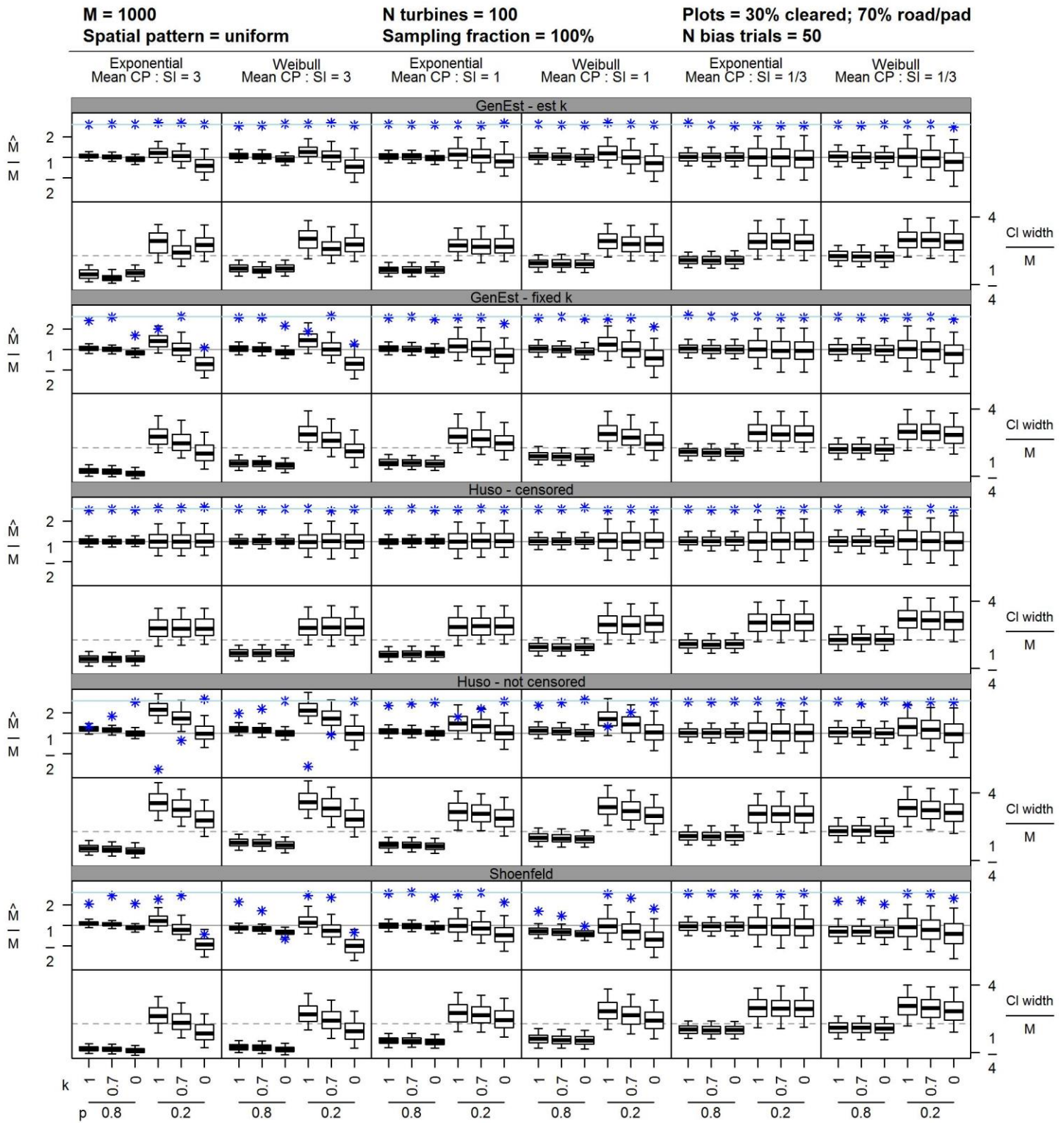


Figure A18. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



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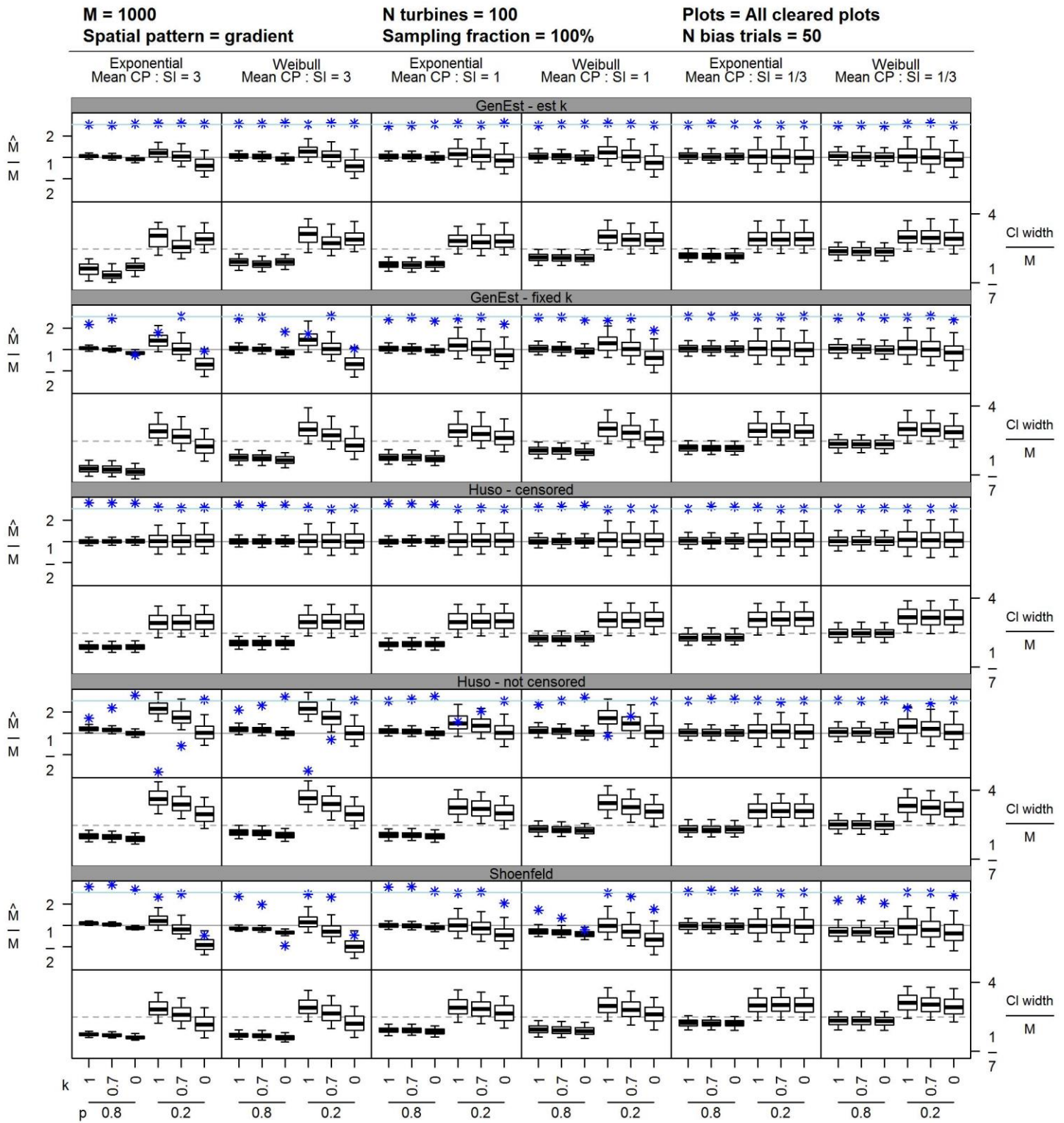


Figure A19. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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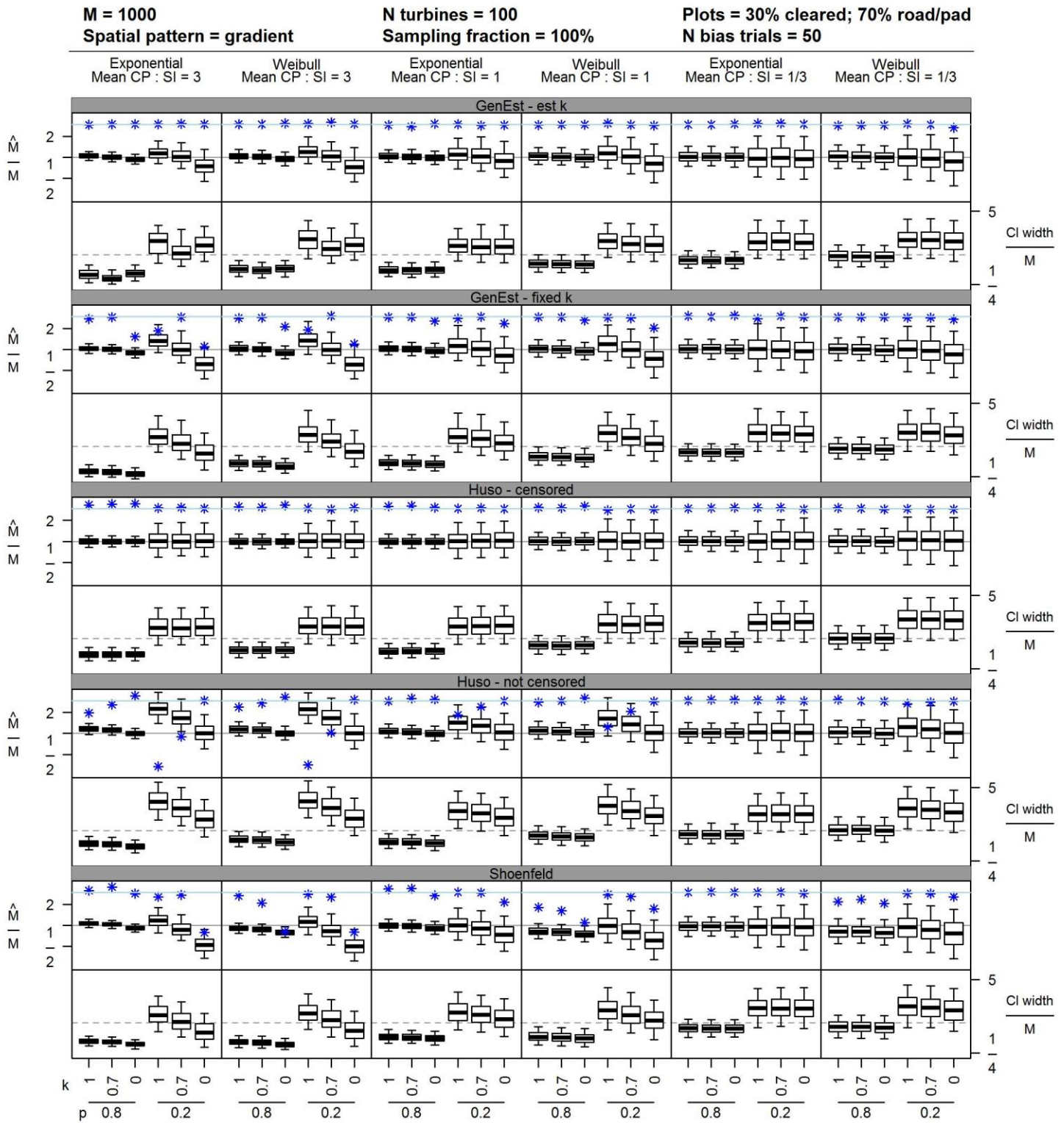


Figure A20. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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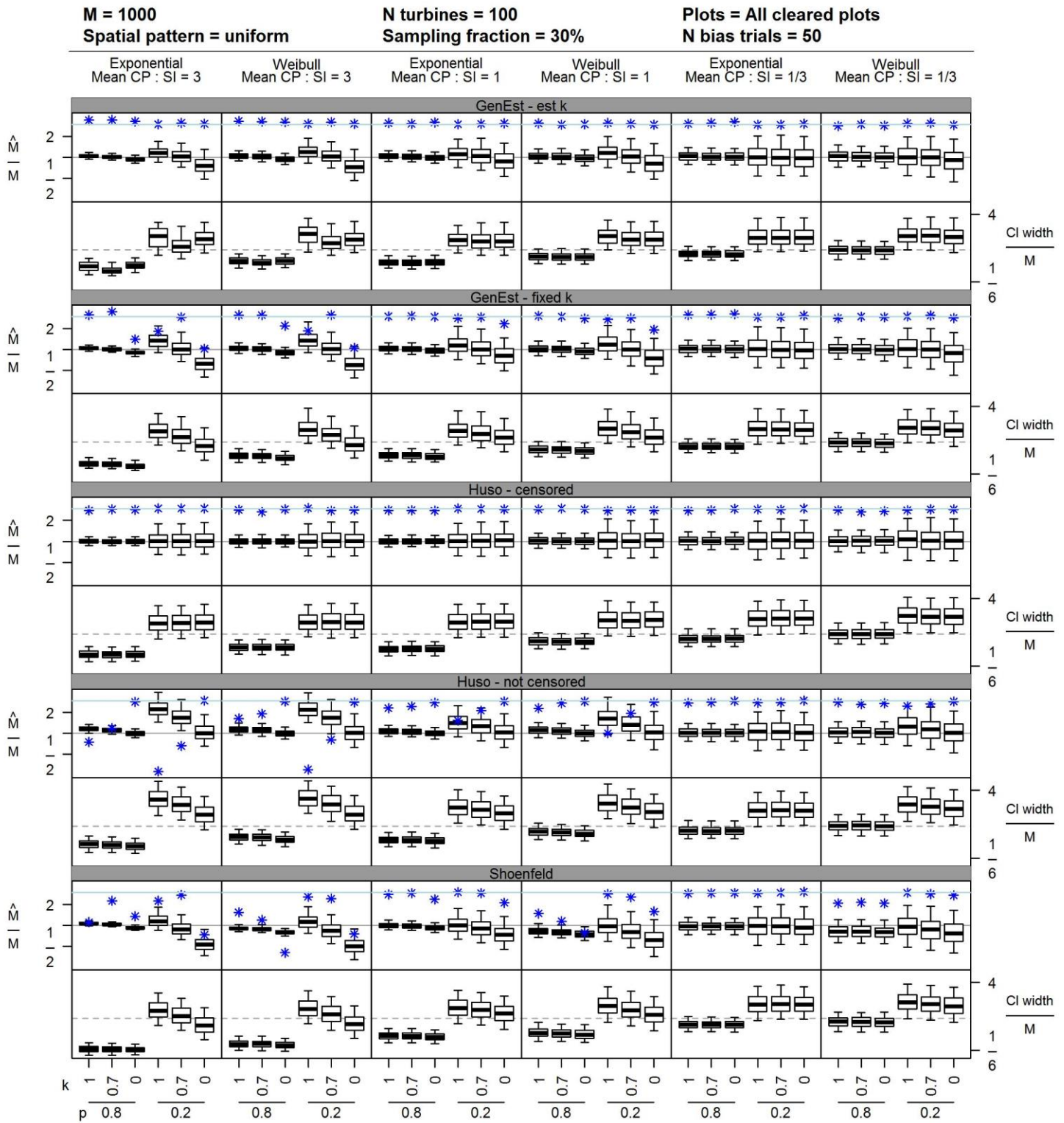


Figure A21. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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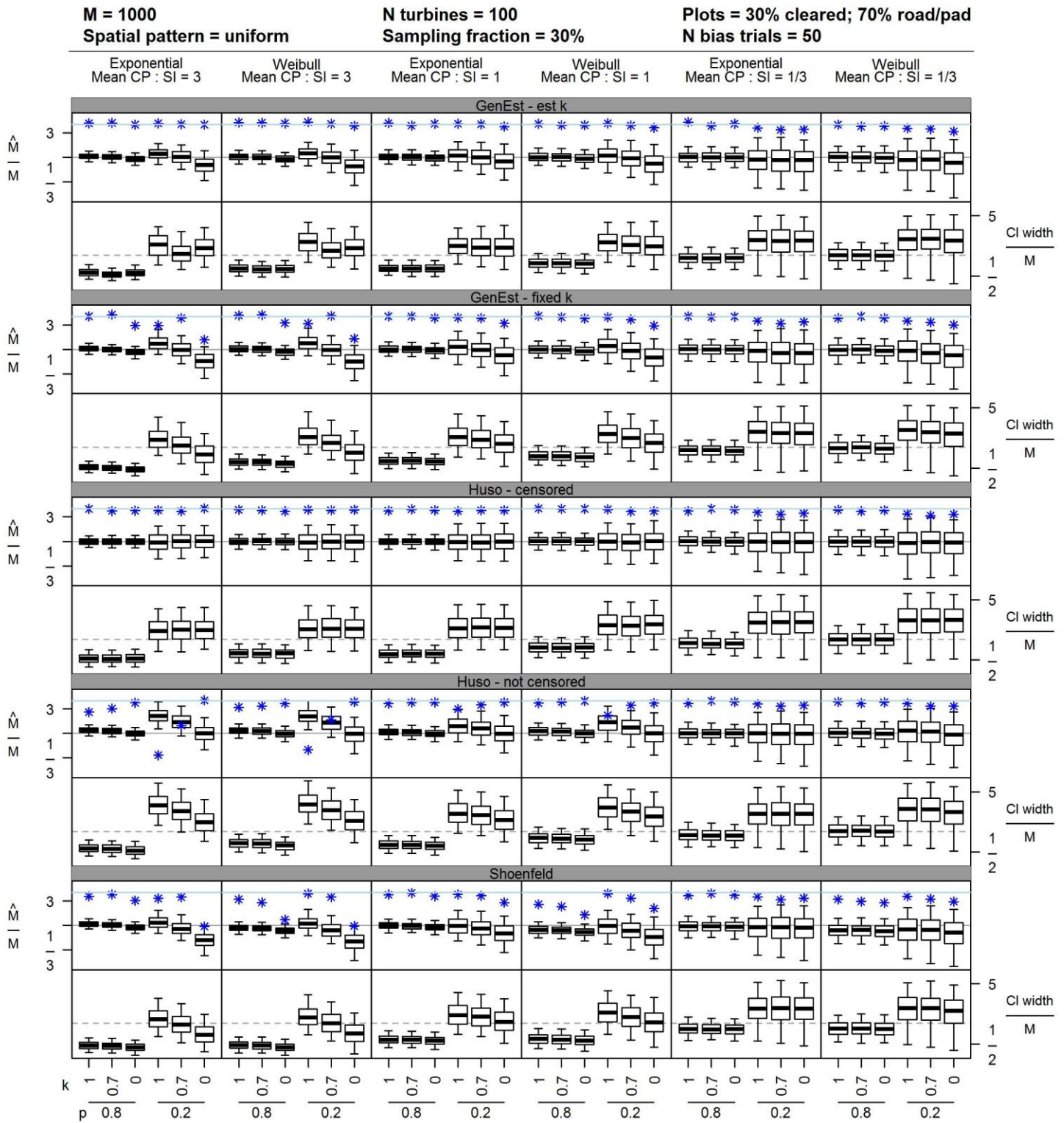


Figure A22. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

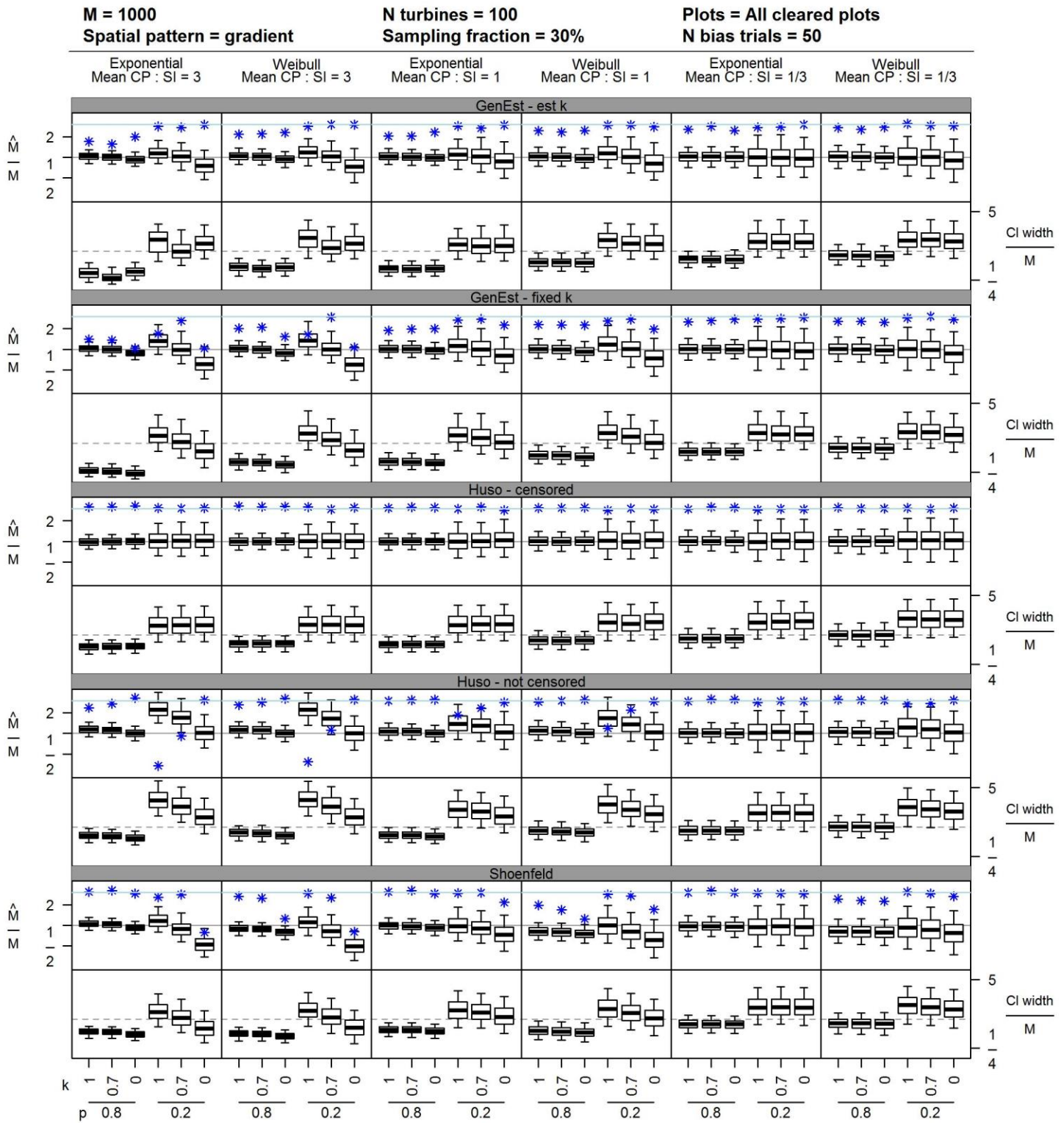


Figure A23. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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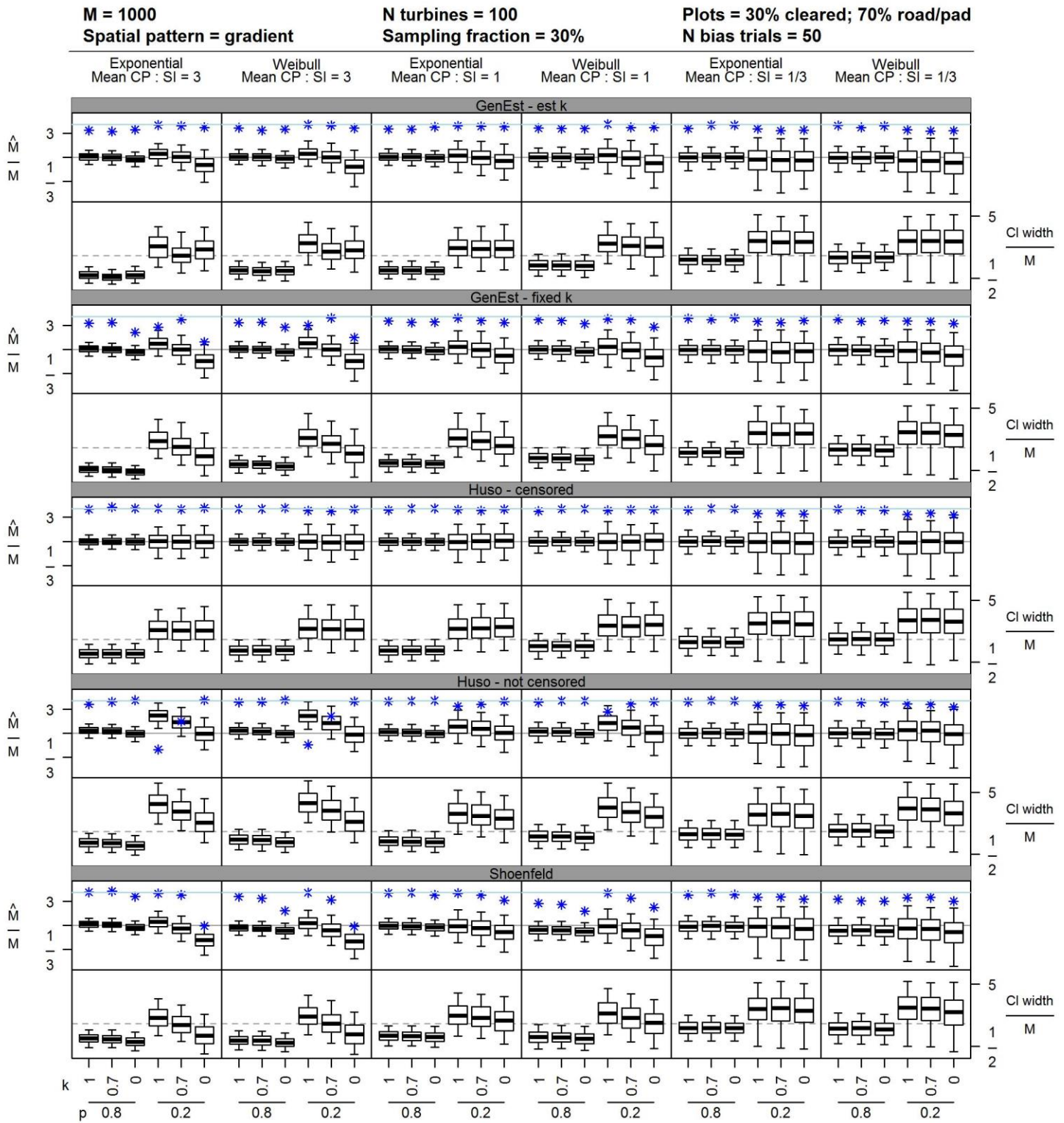


Figure A24. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

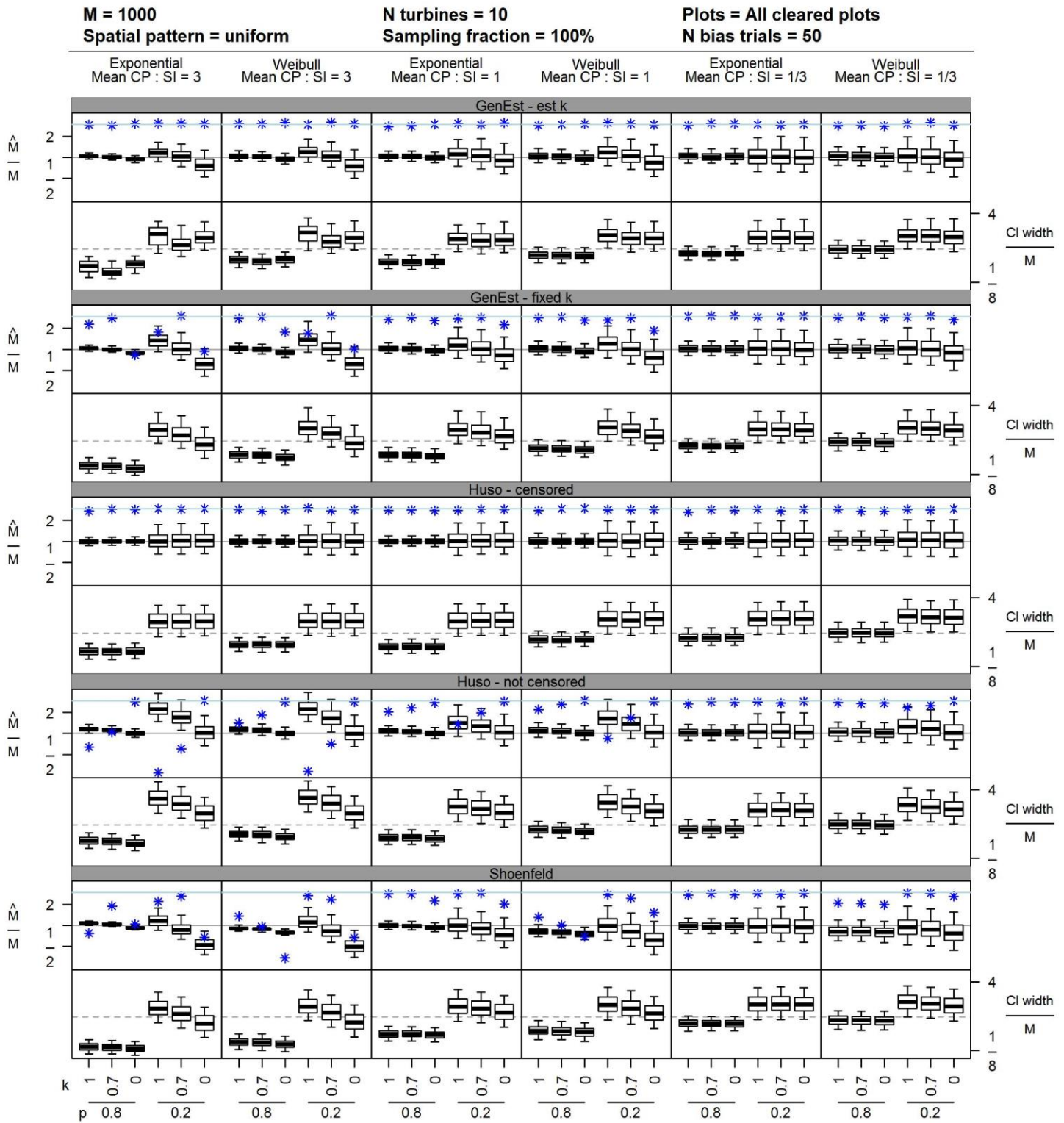


Figure A25. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

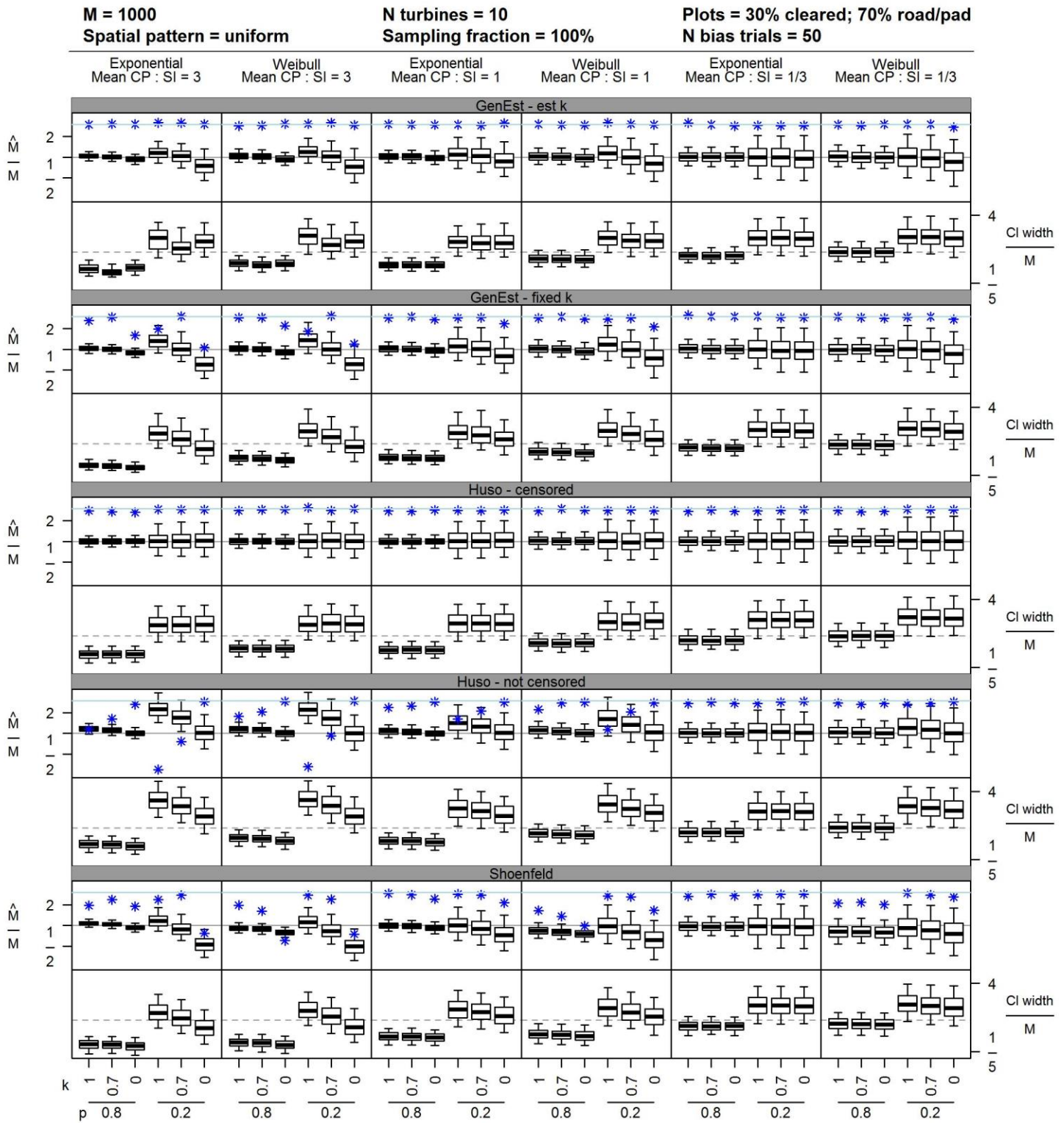


Figure A26. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

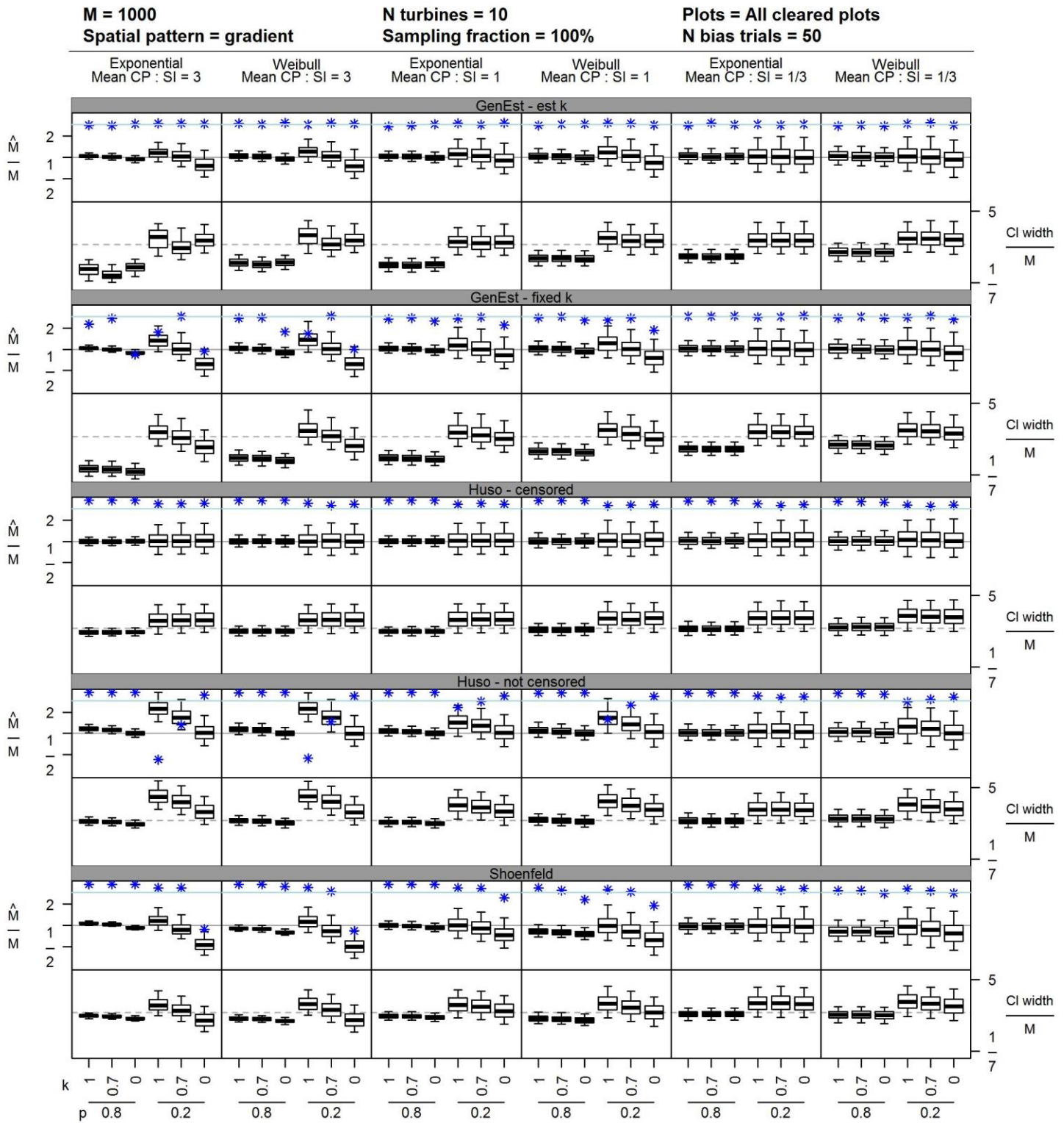


Figure A27. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

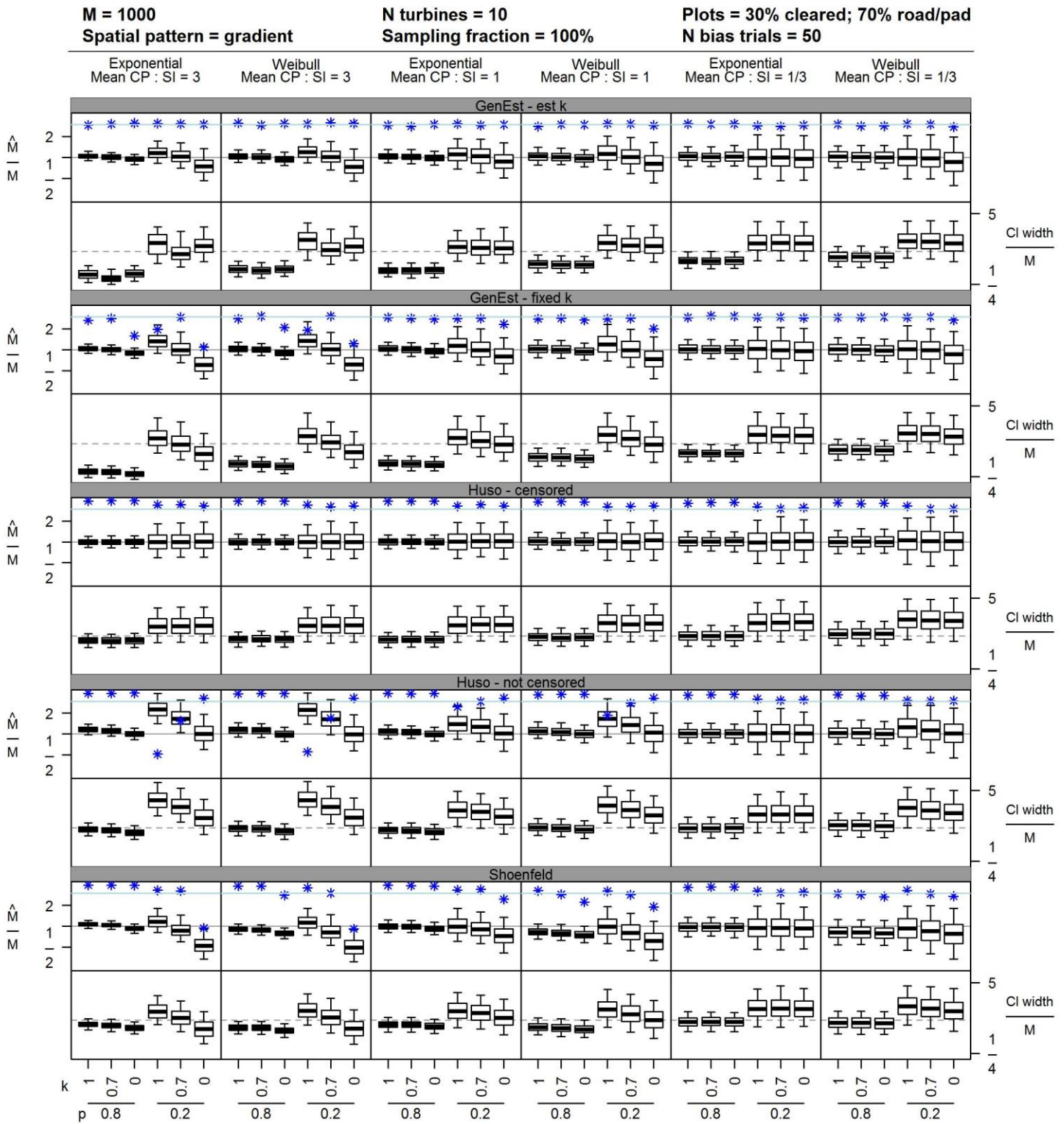


Figure A28. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

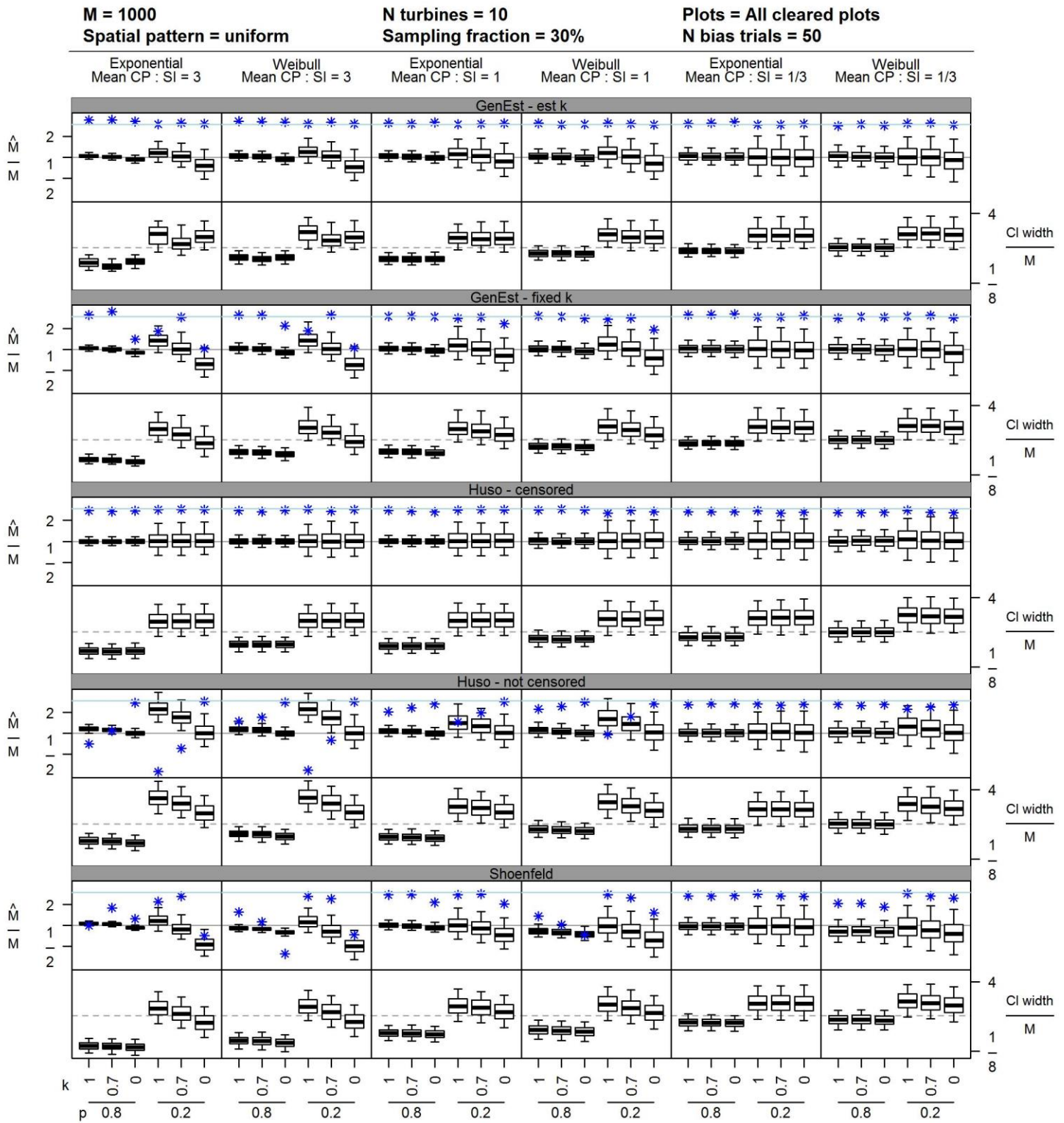


Figure A29. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

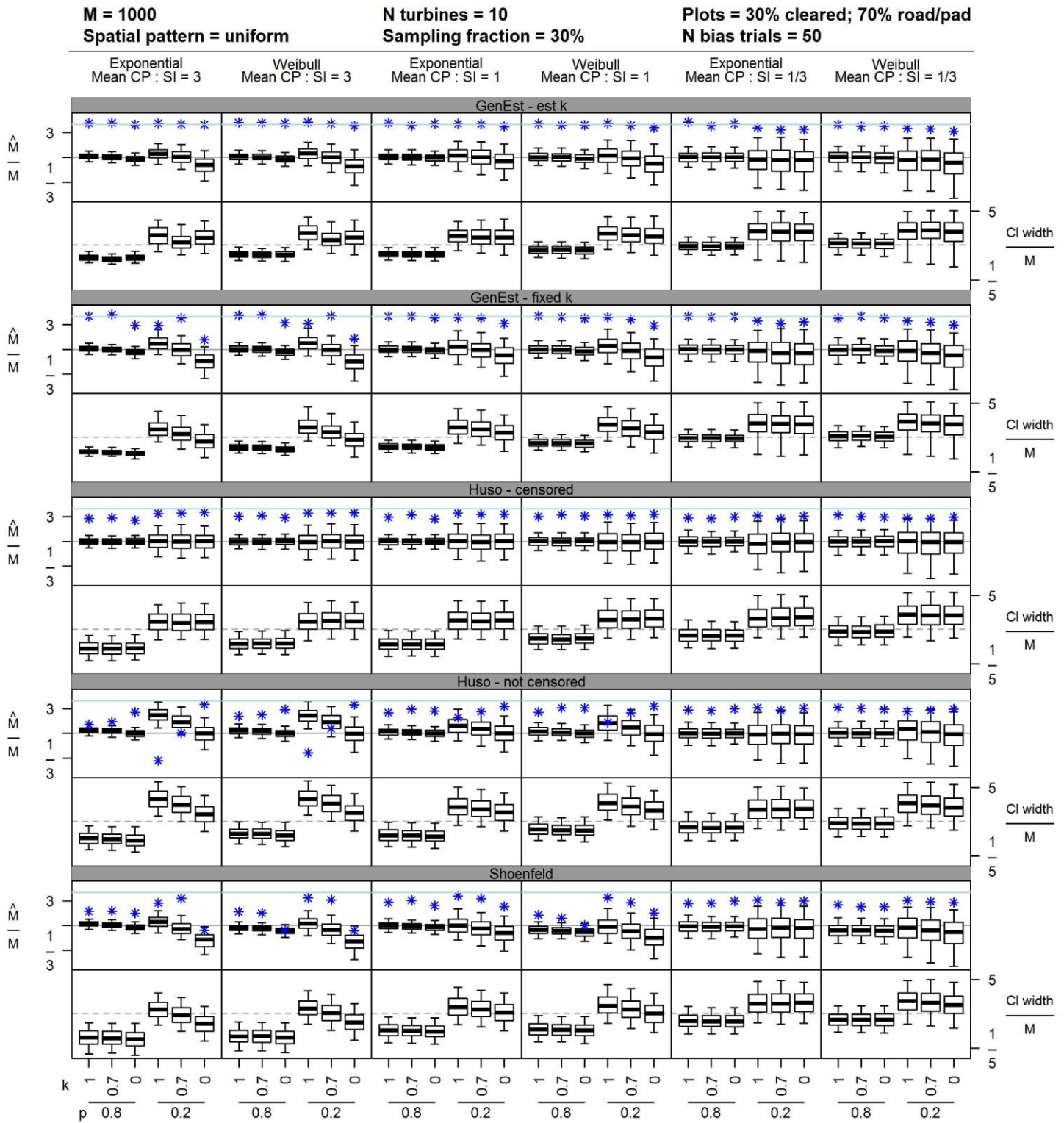


Figure A30. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

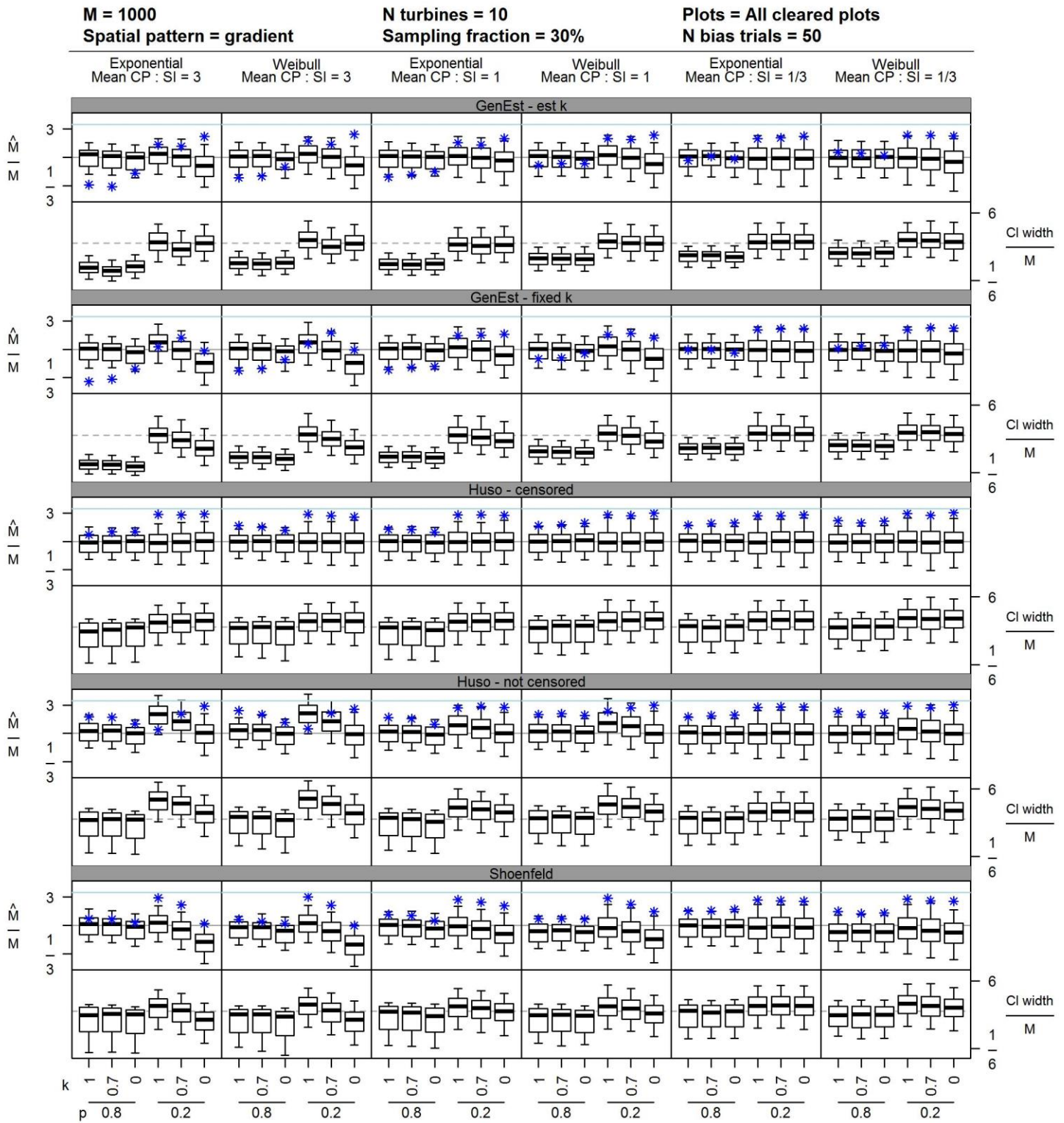


Figure A31. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

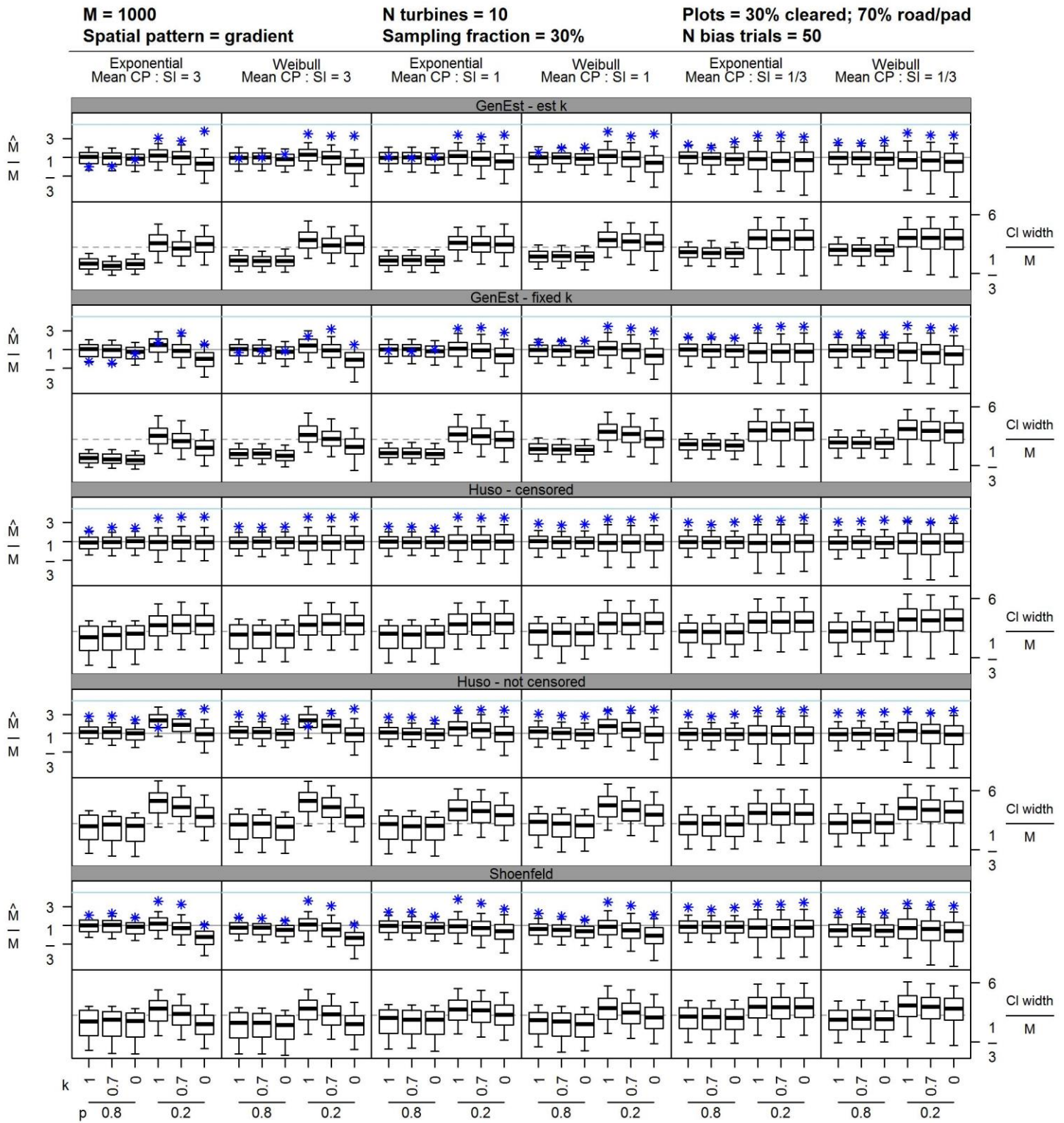


Figure A32. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

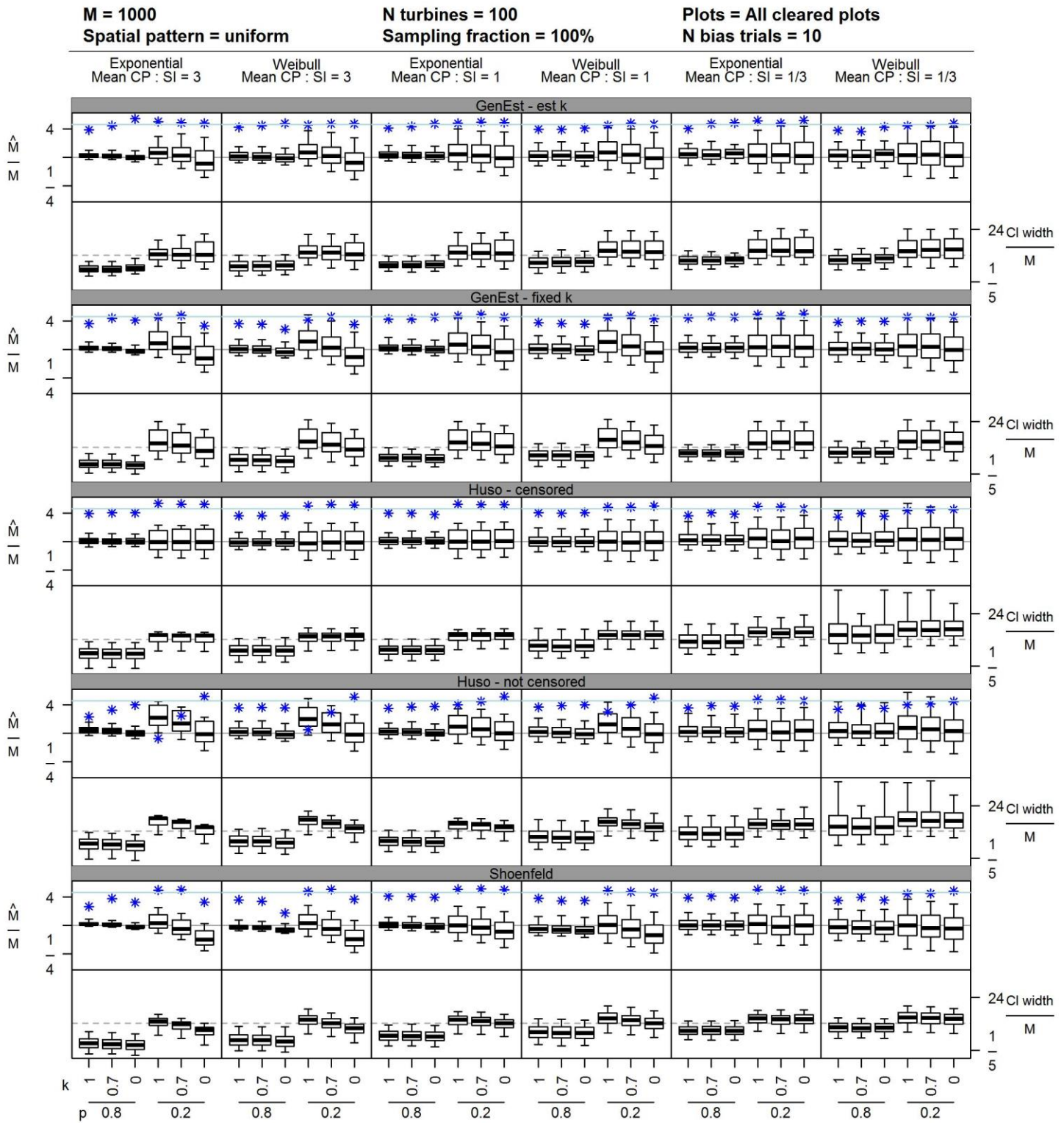


Figure A33. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

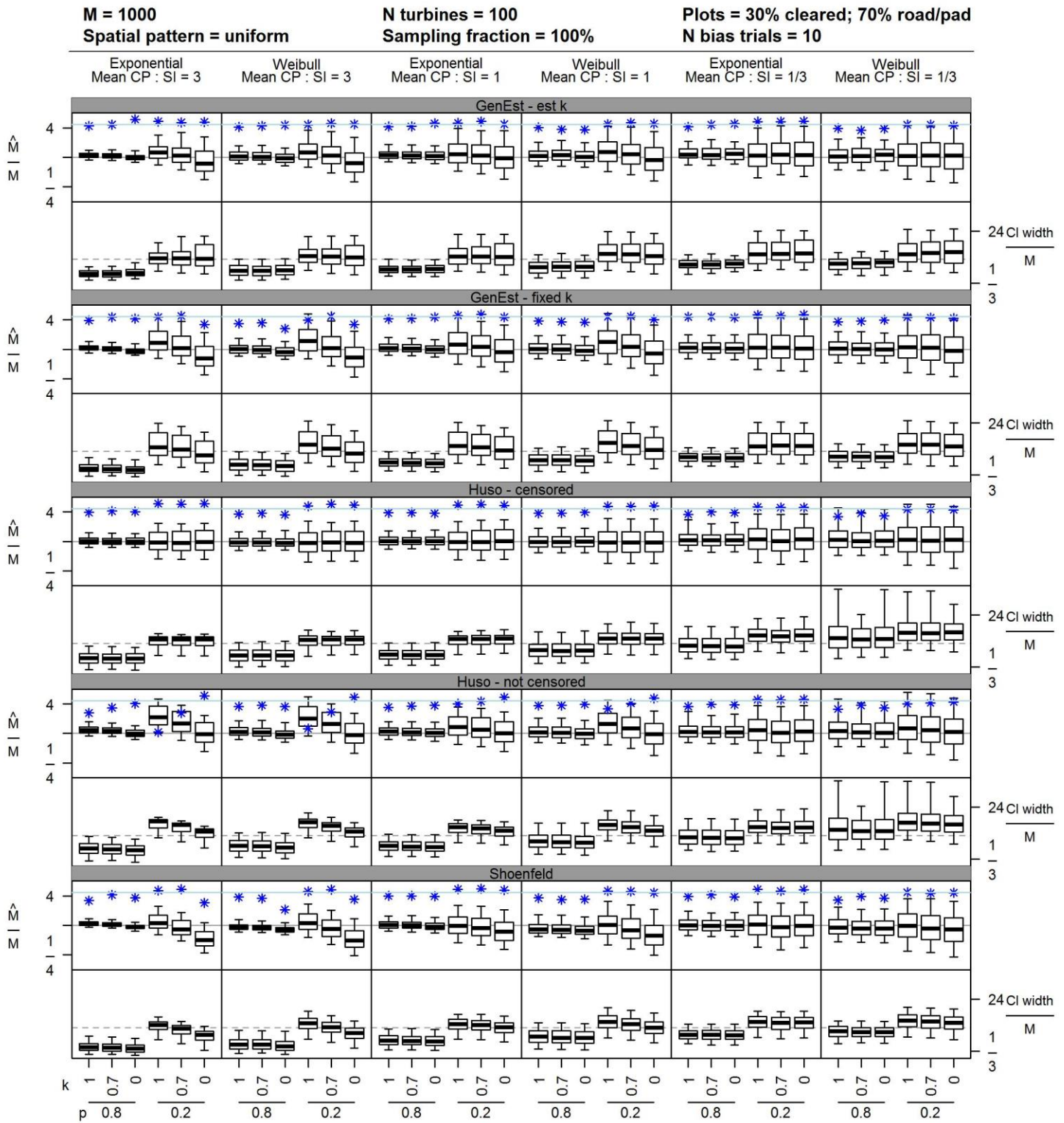


Figure A34. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

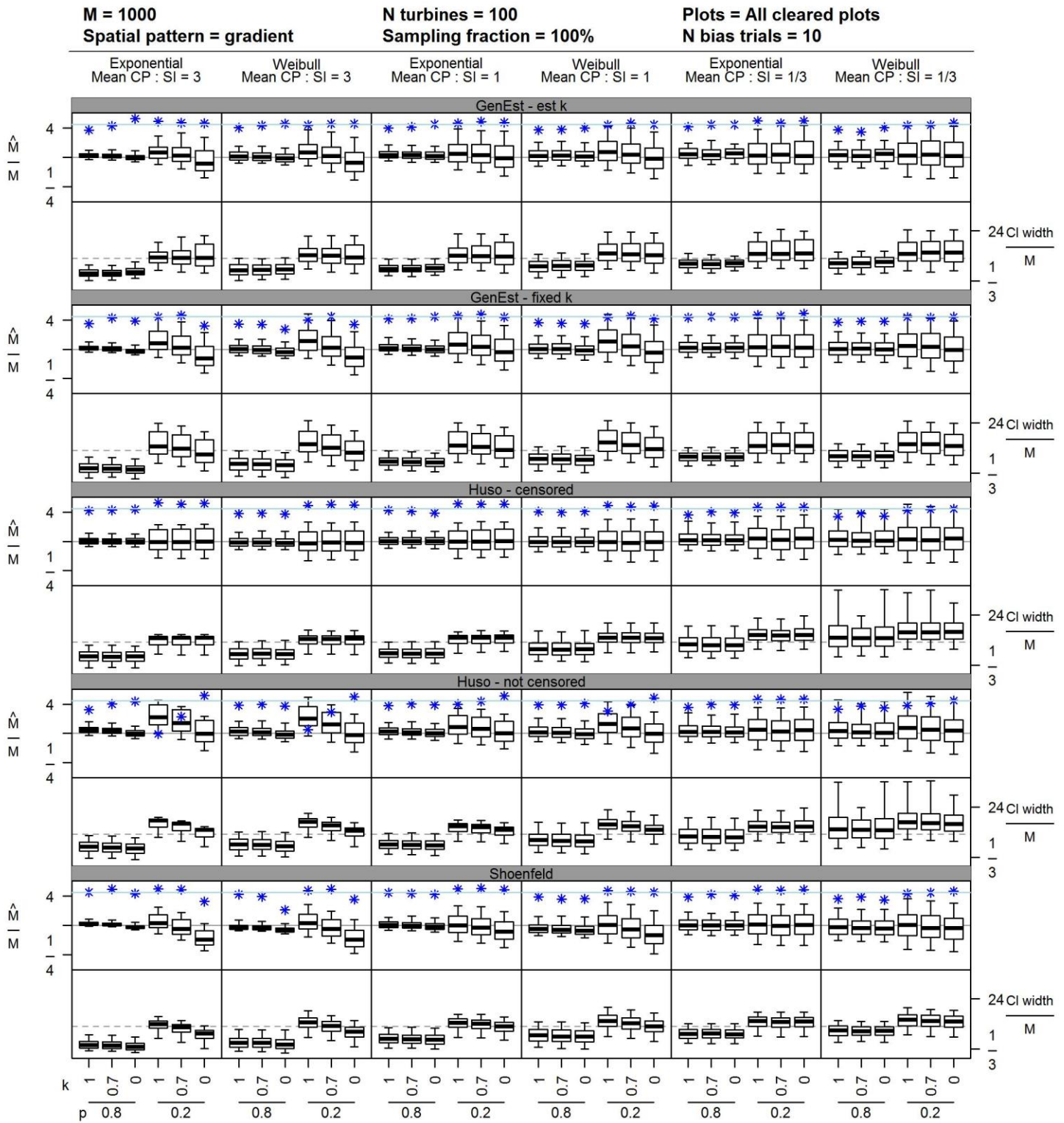


Figure A35. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

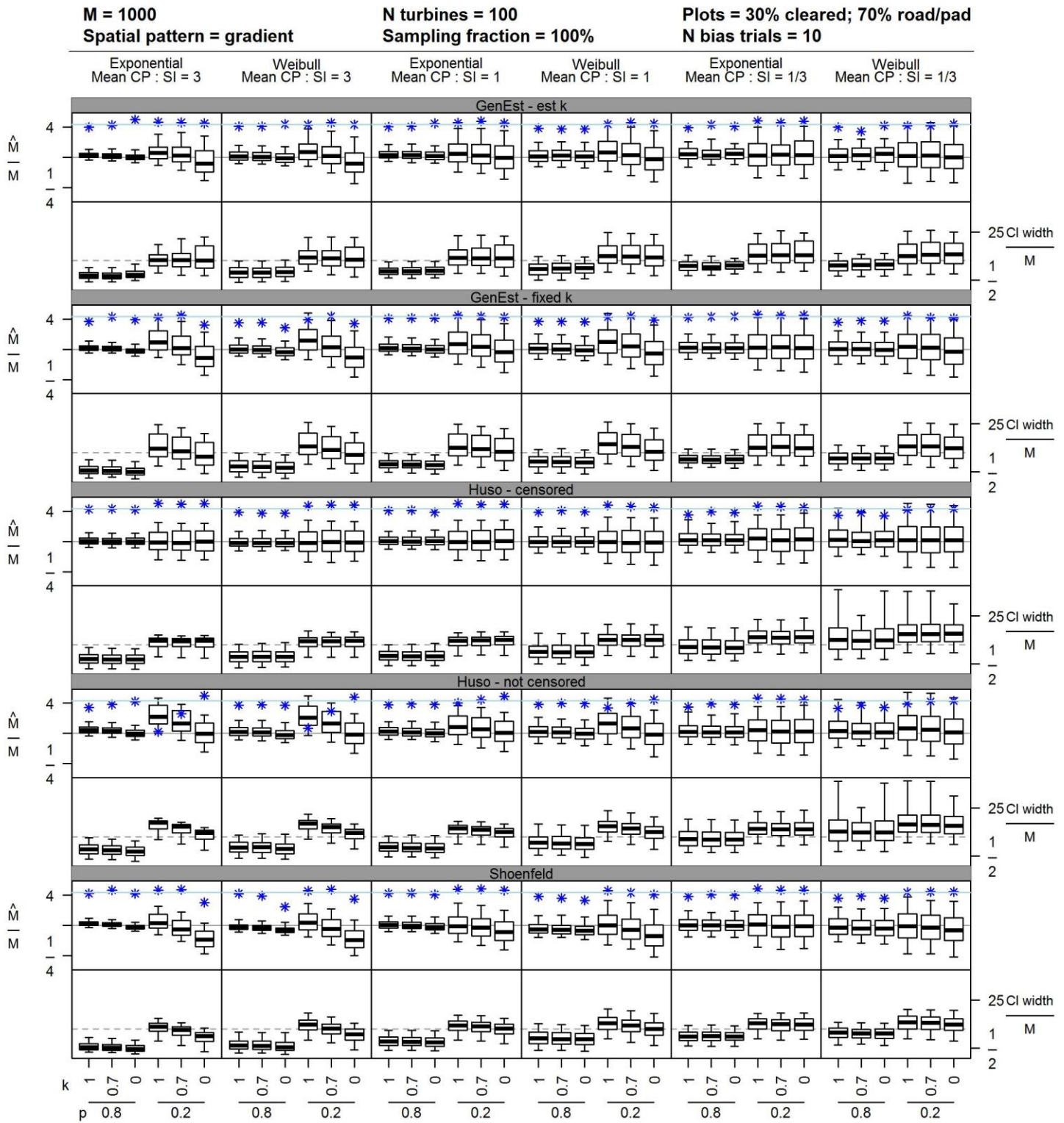


Figure A36. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

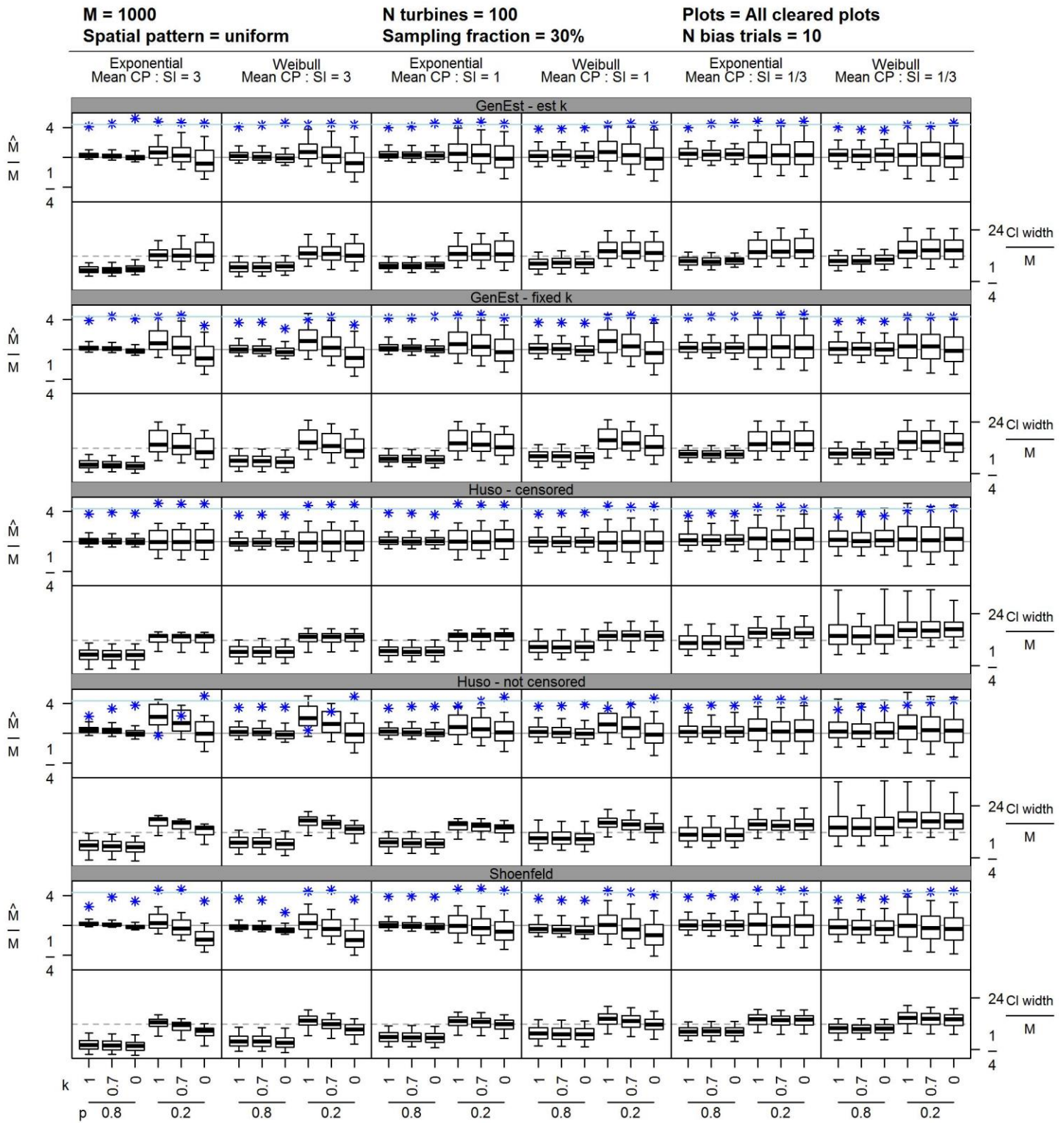


Figure A37. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

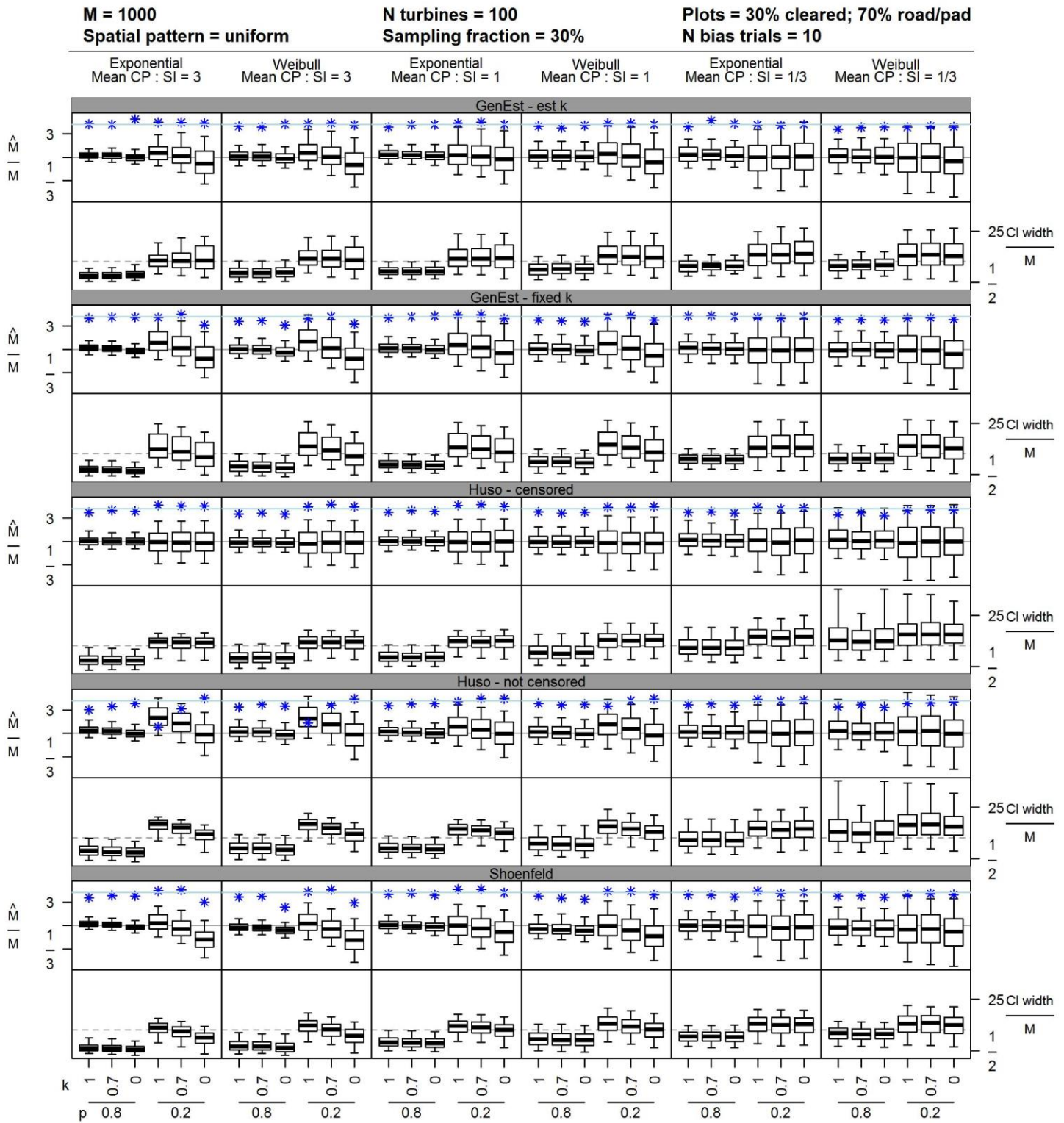


Figure A38. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

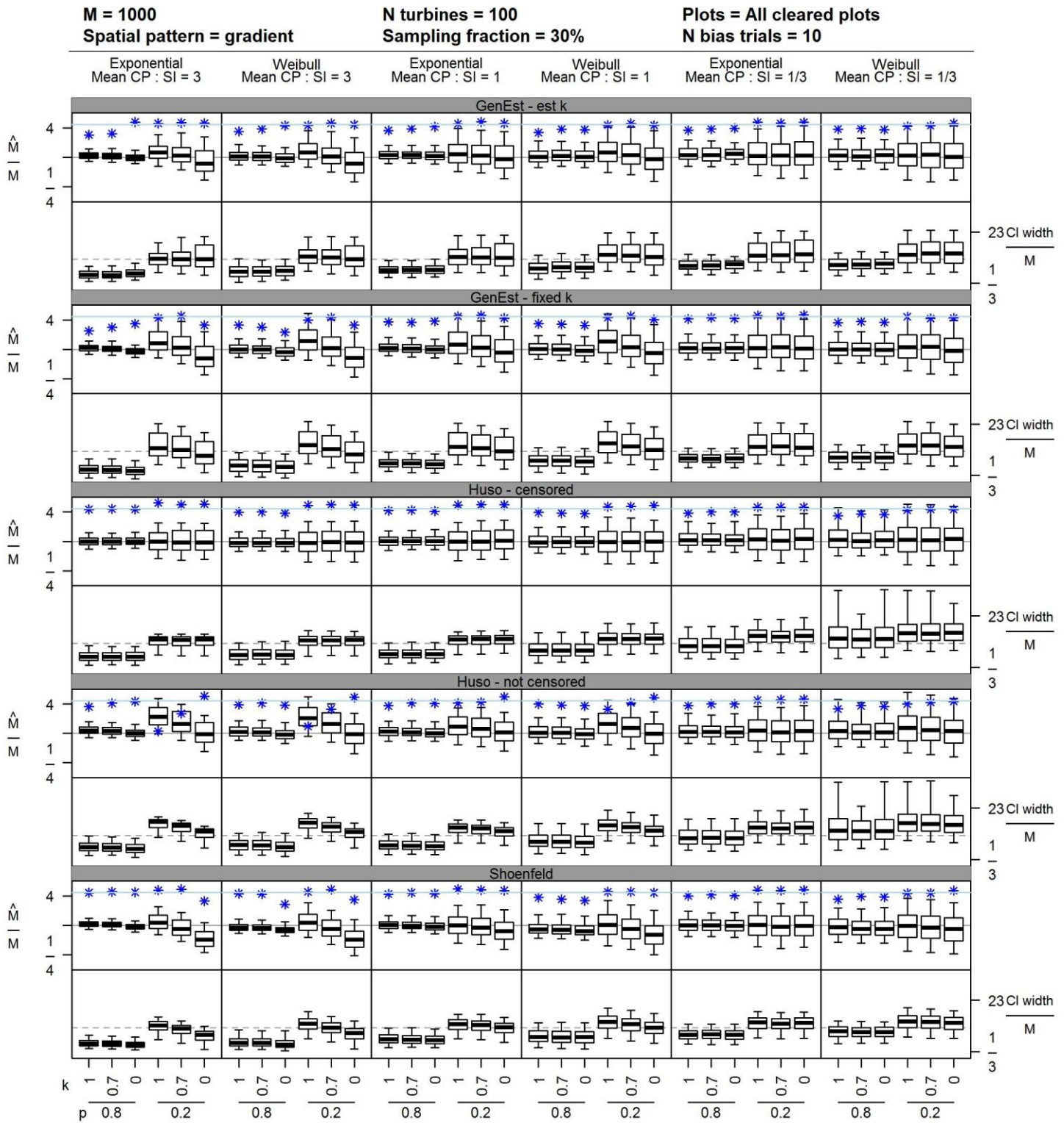


Figure A39. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

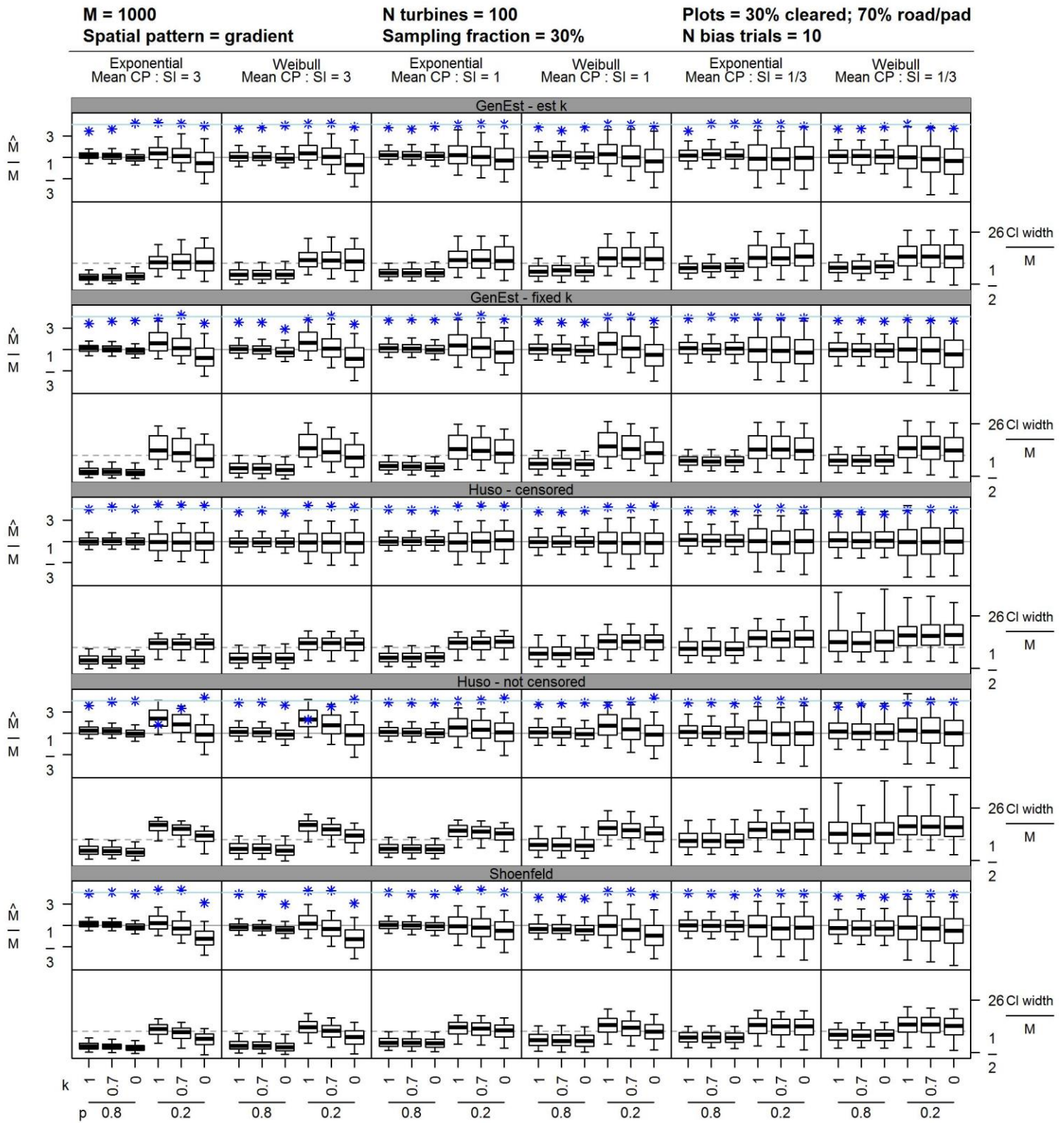


Figure A40. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

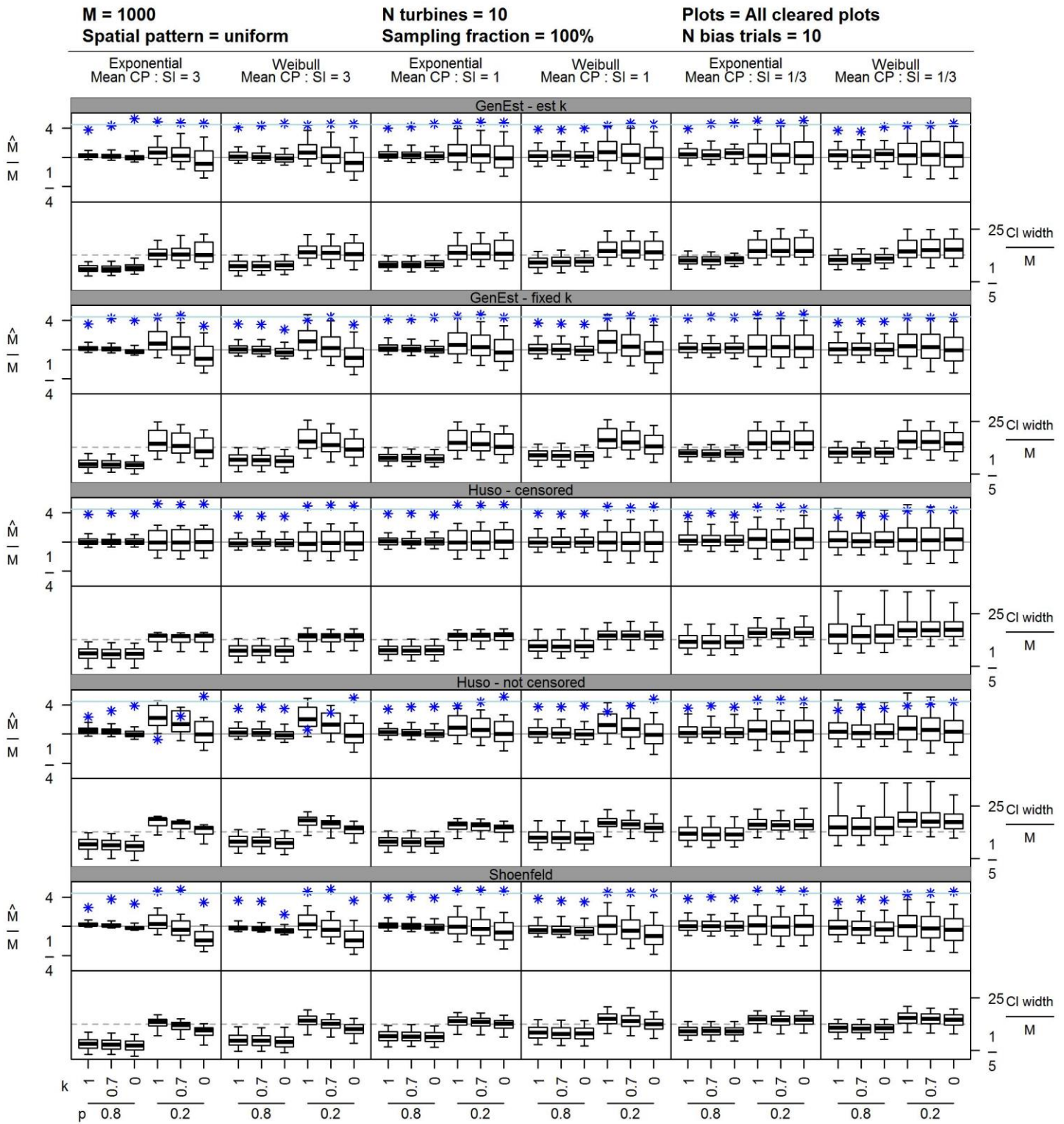


Figure A41. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

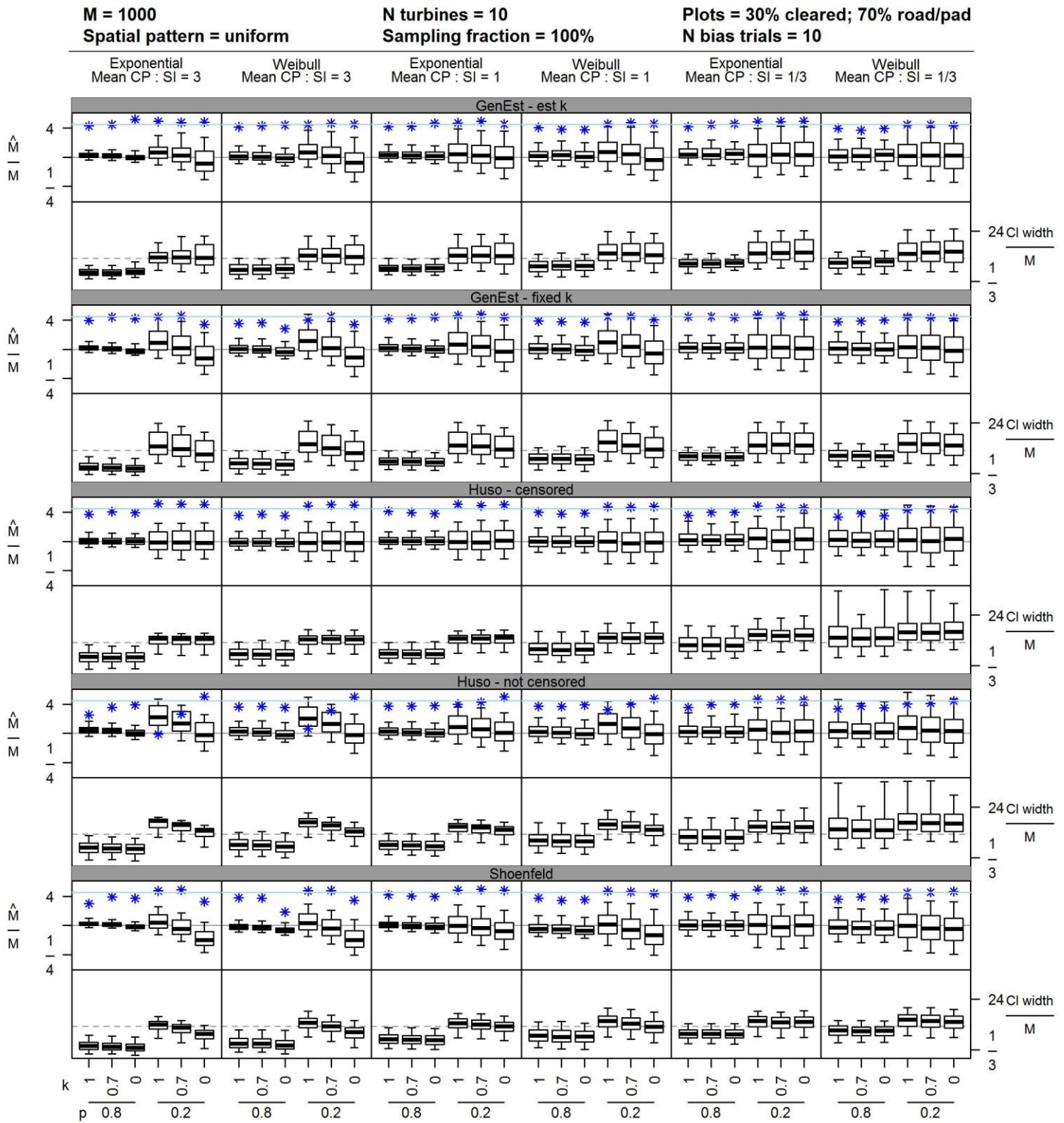


Figure A42. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

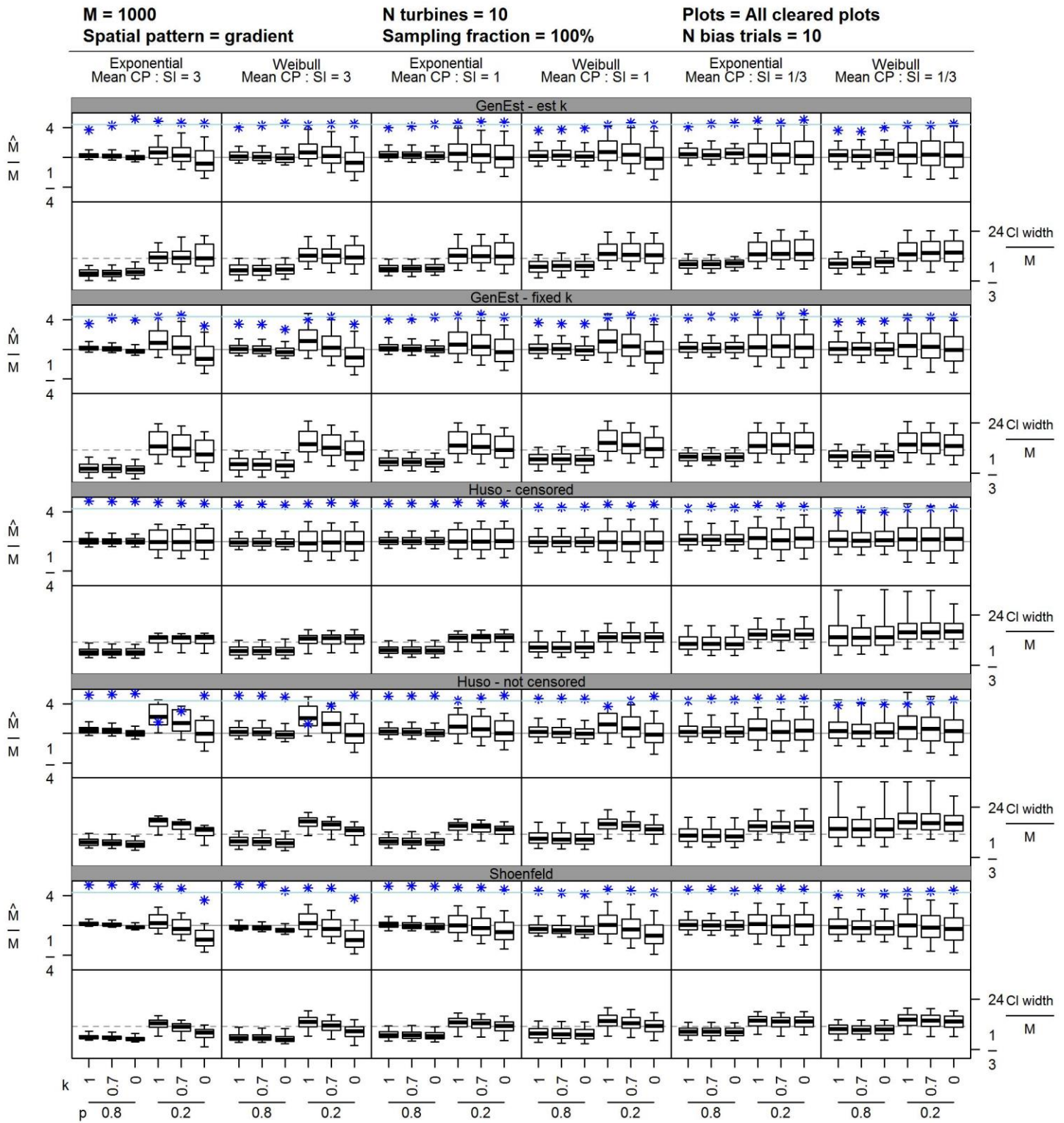


Figure A43. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

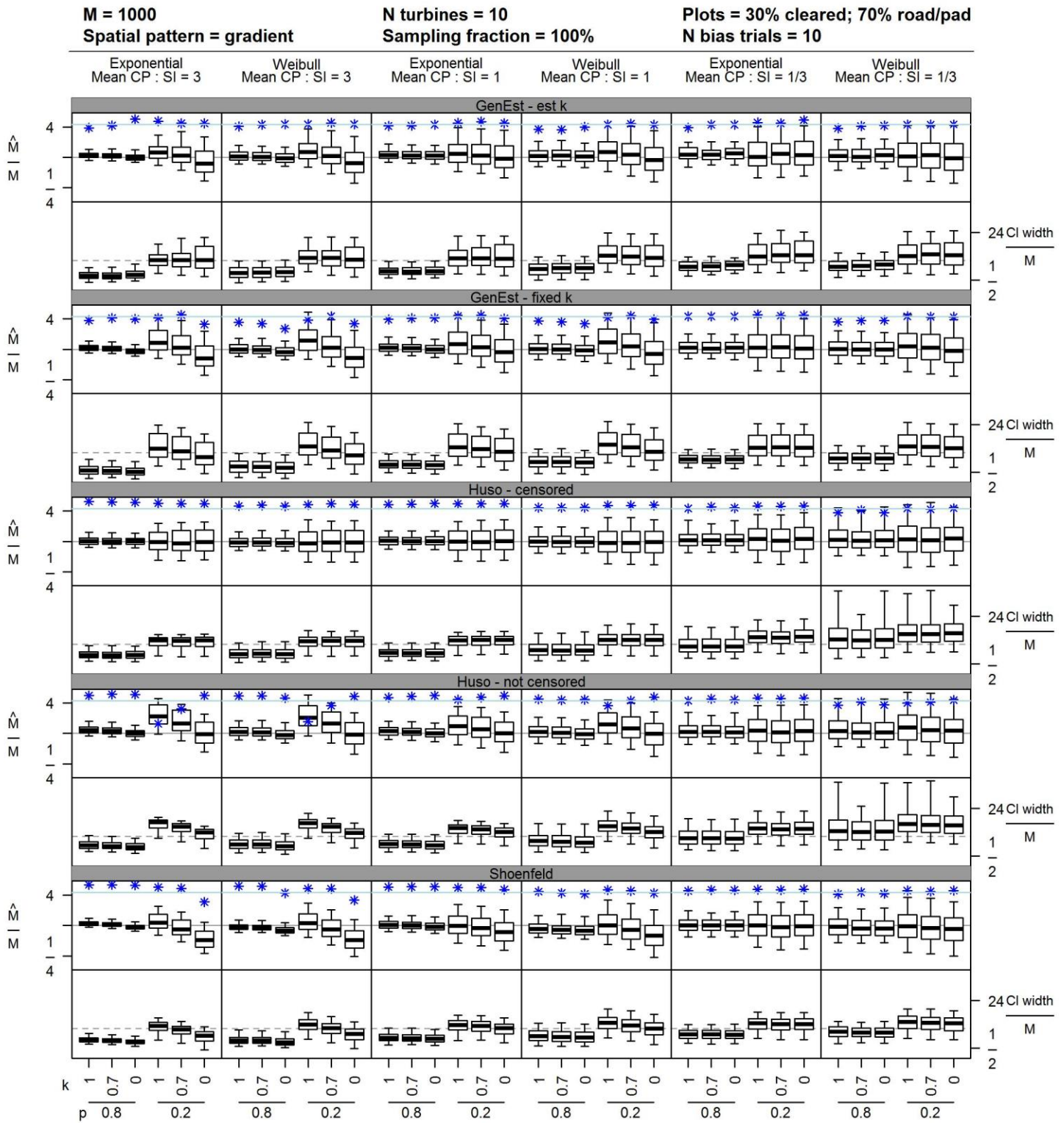


Figure A44. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

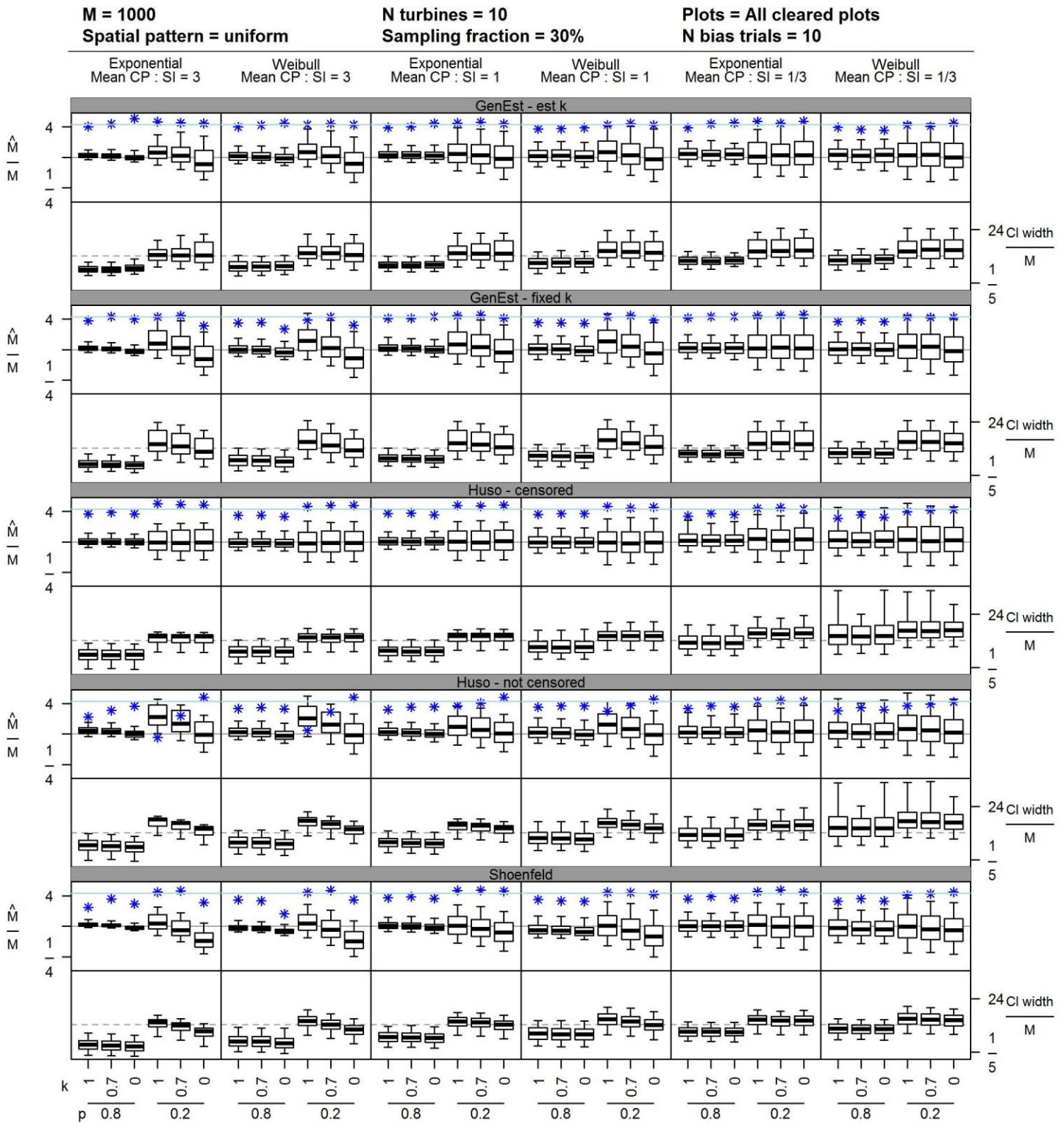


Figure A45. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

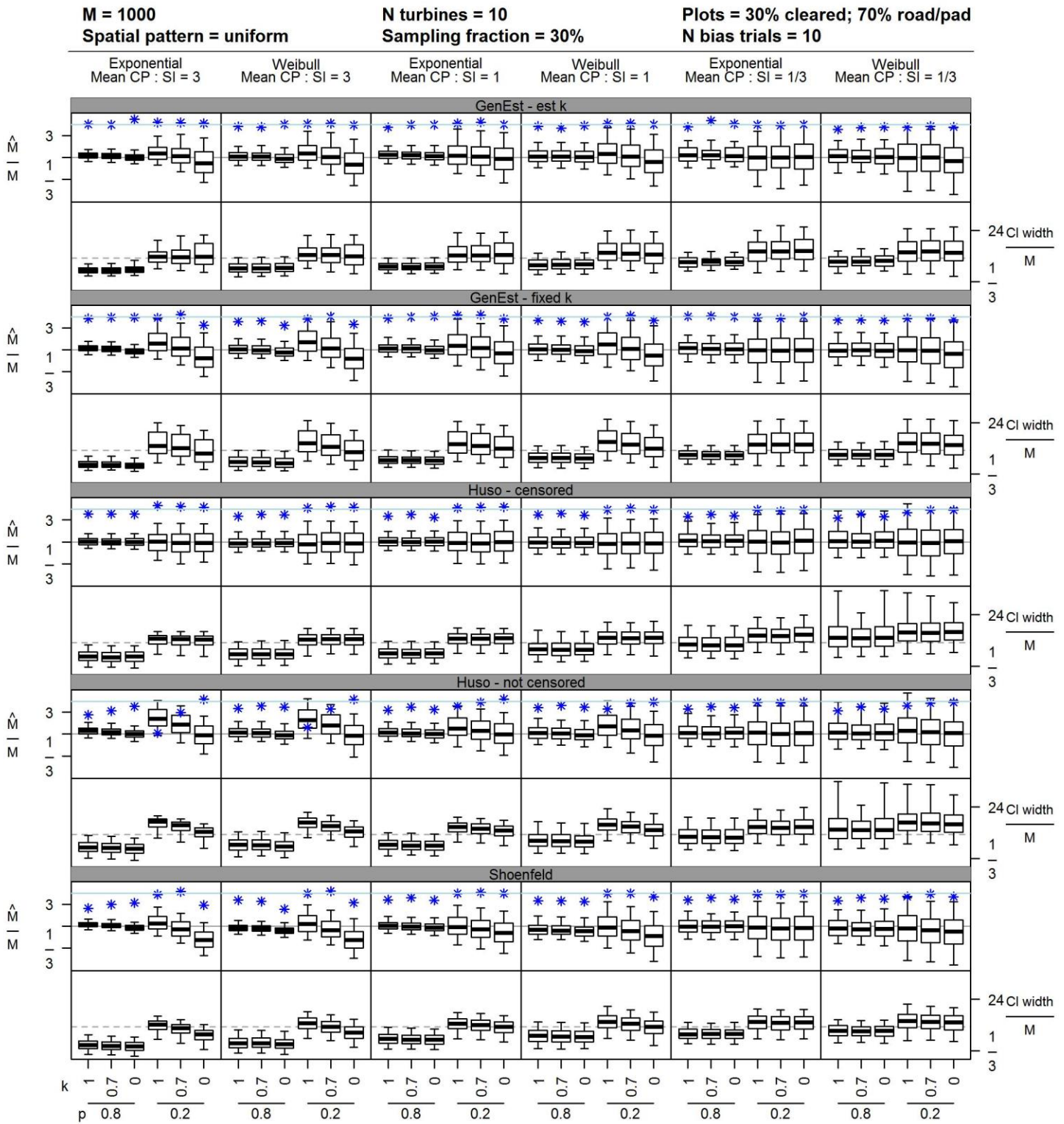


Figure A46. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

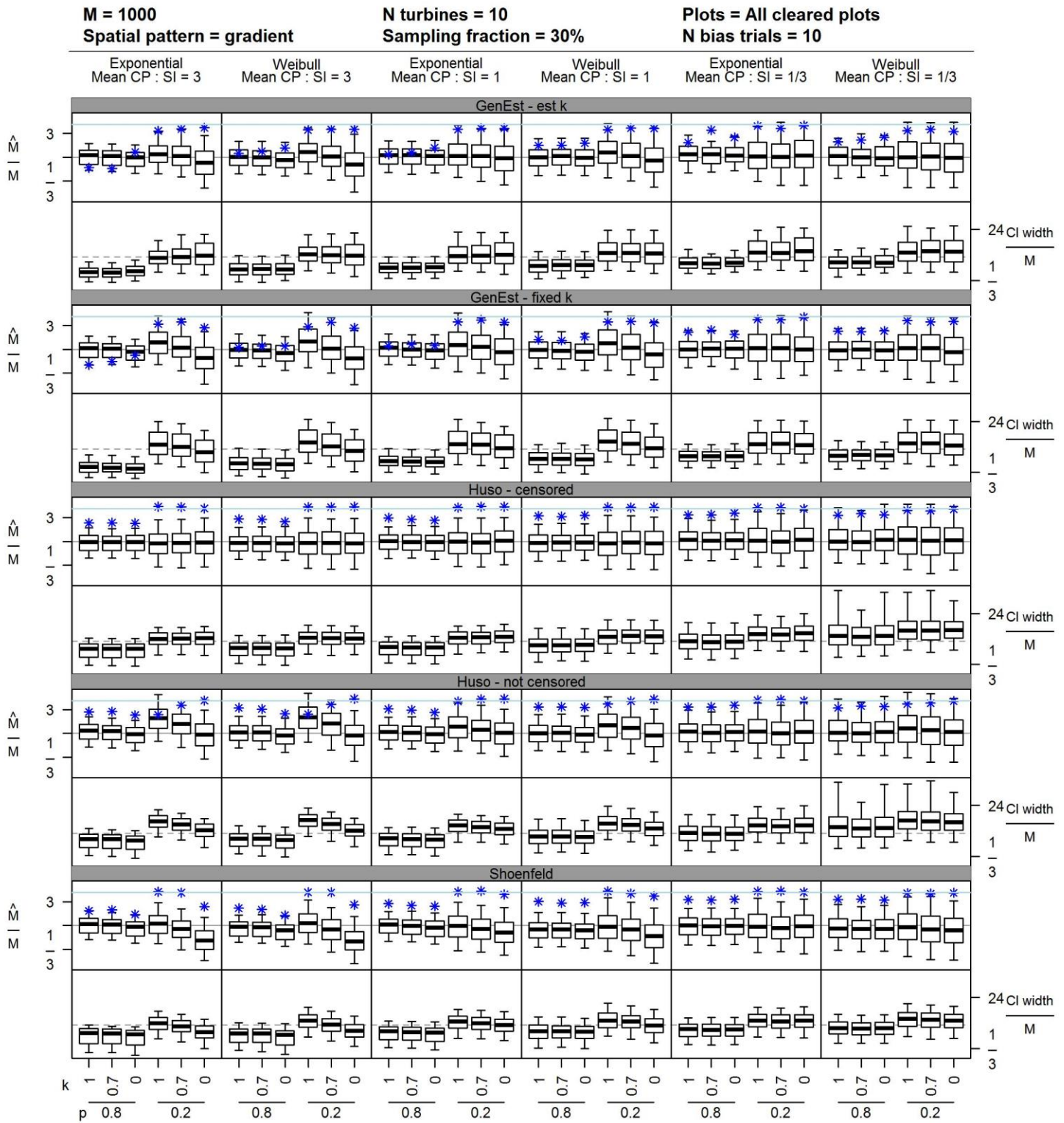


Figure A47. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

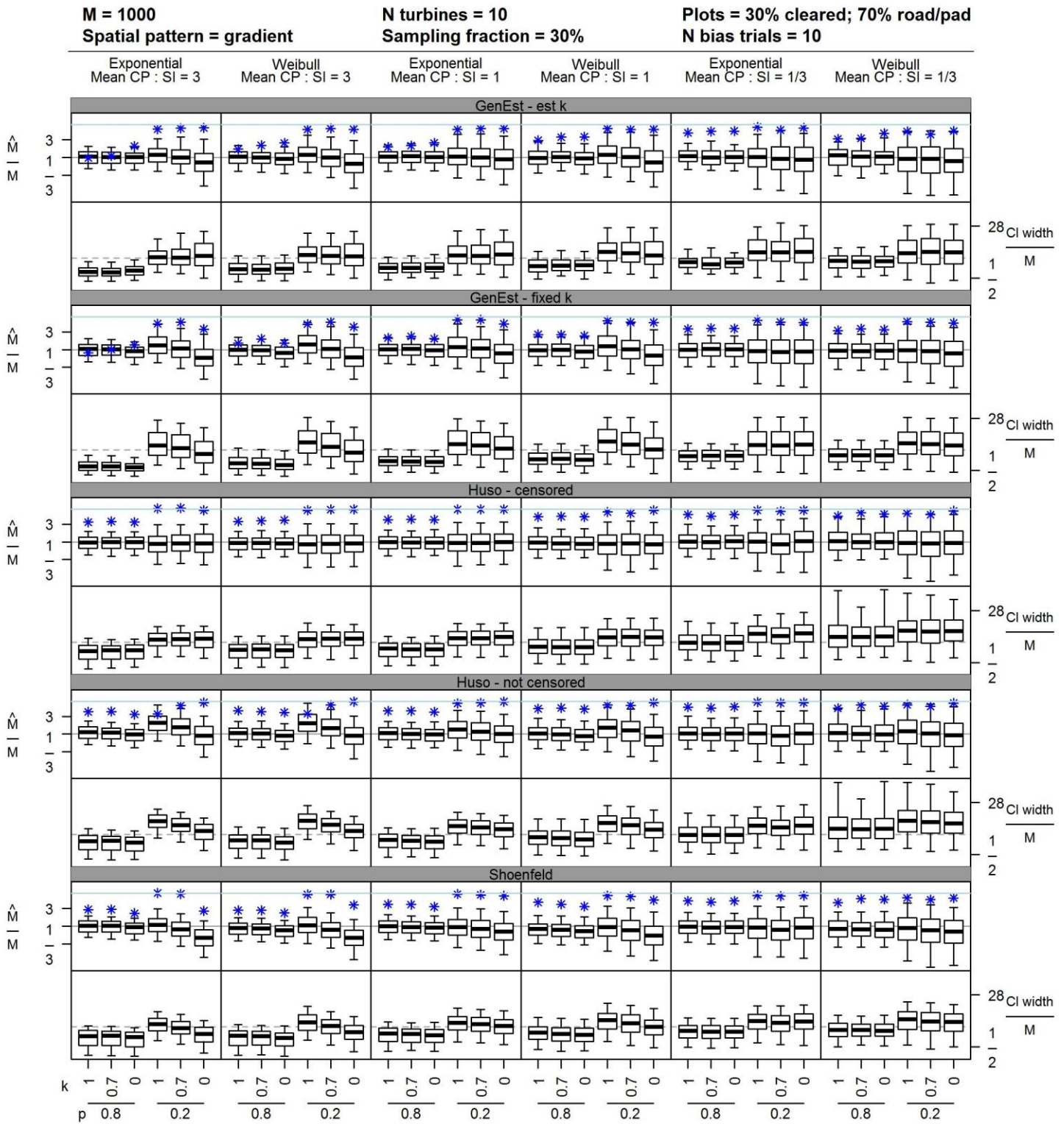


Figure A48. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

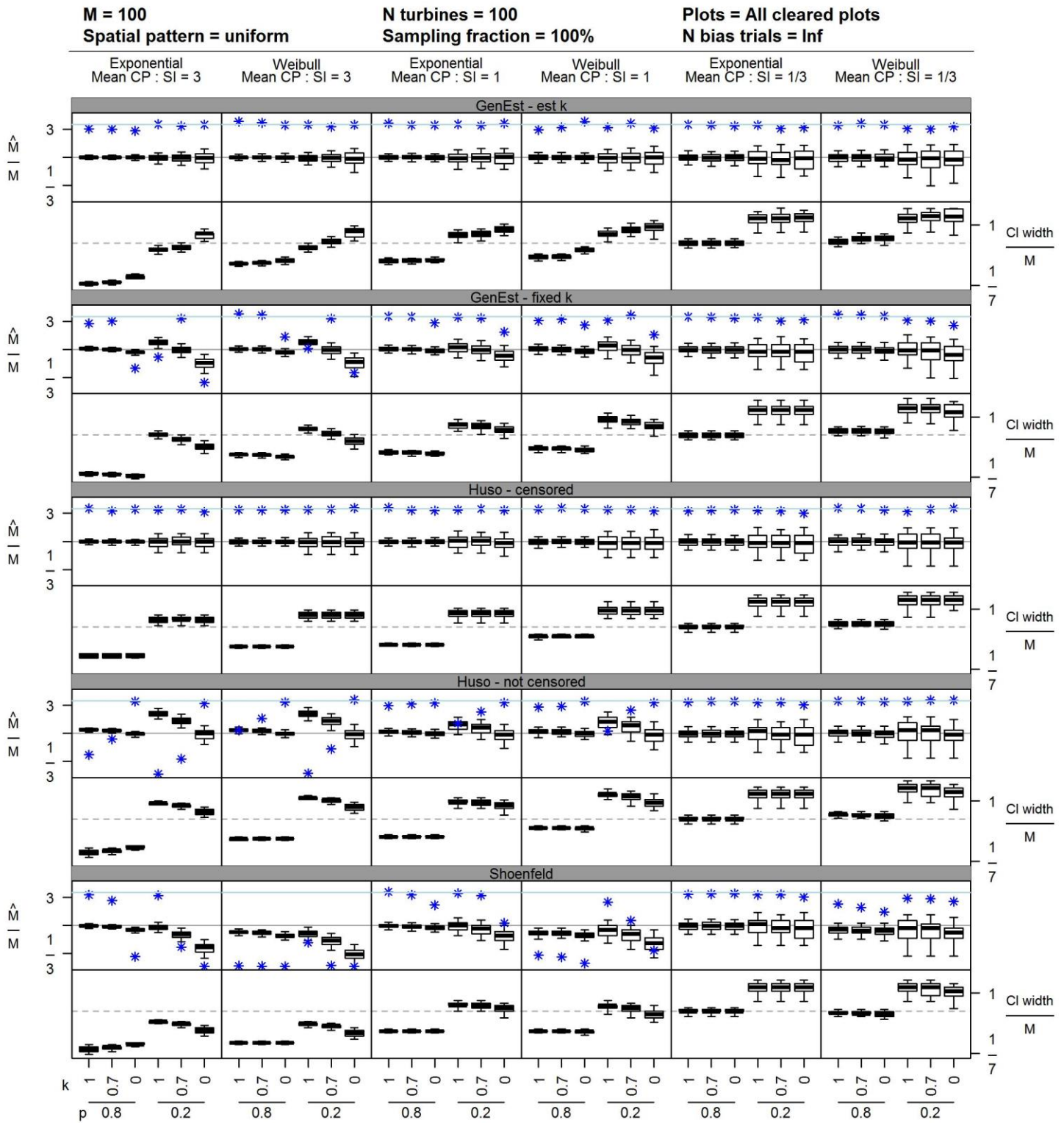


Figure A49. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

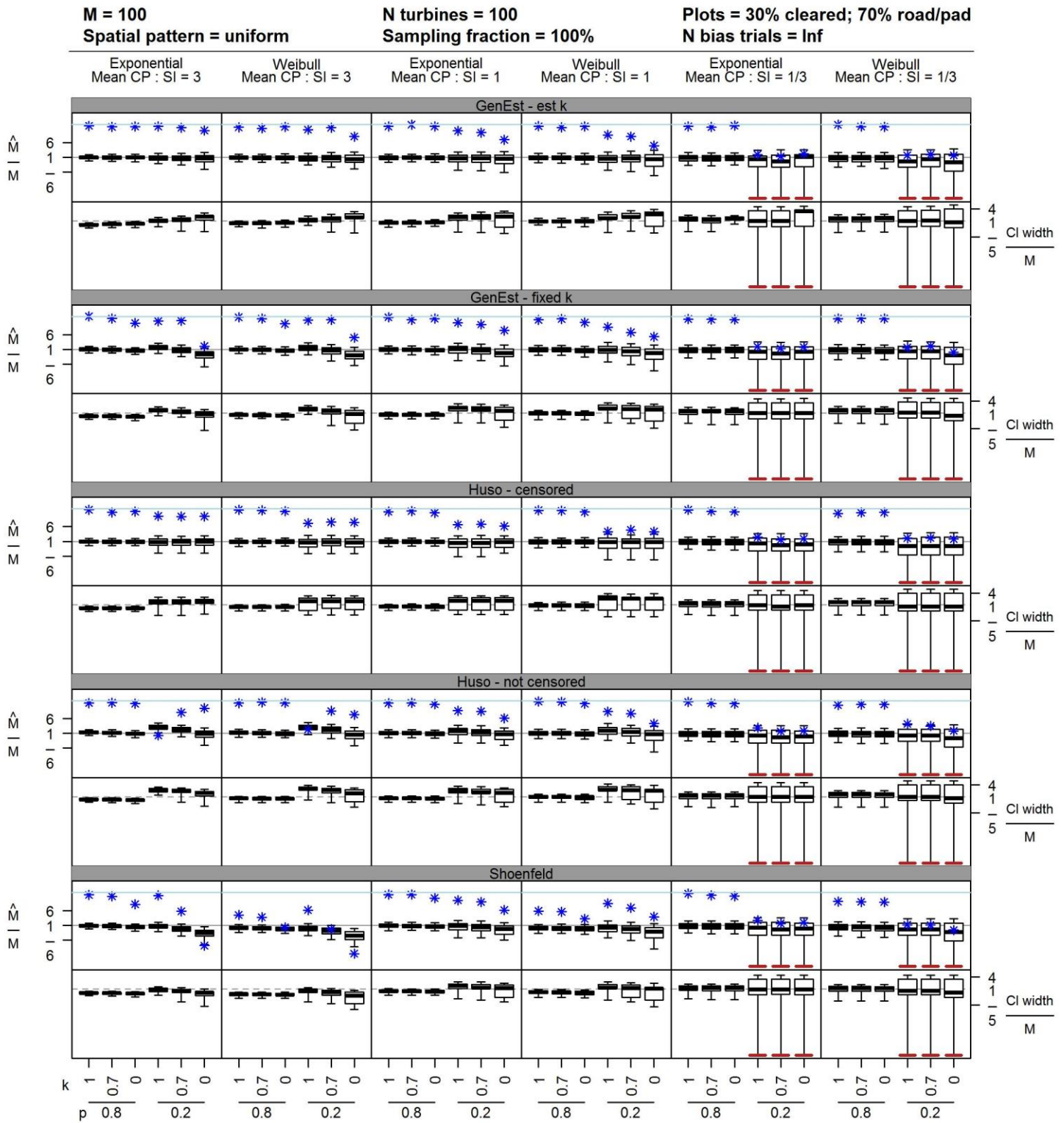


Figure A50. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

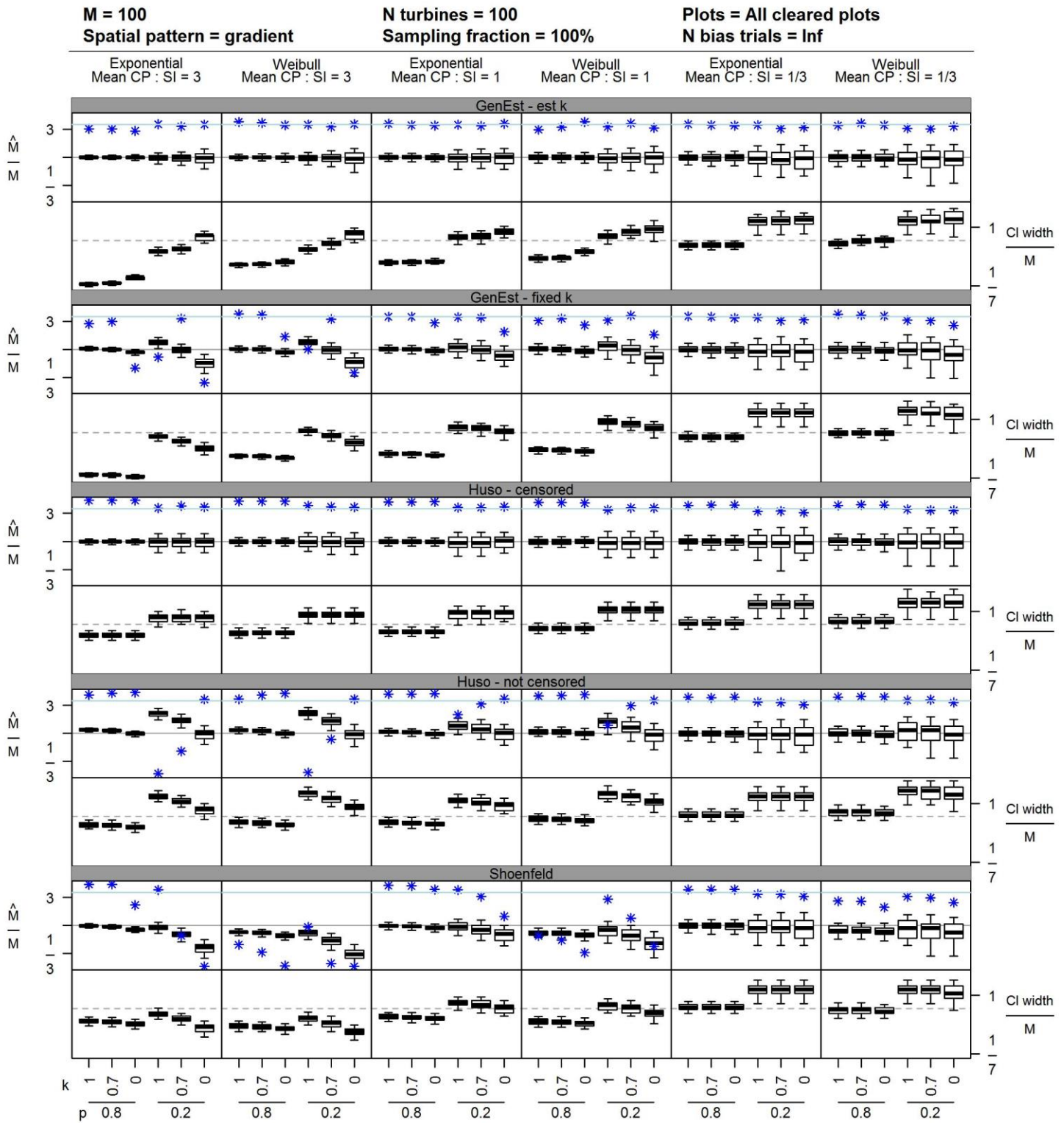


Figure A51. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

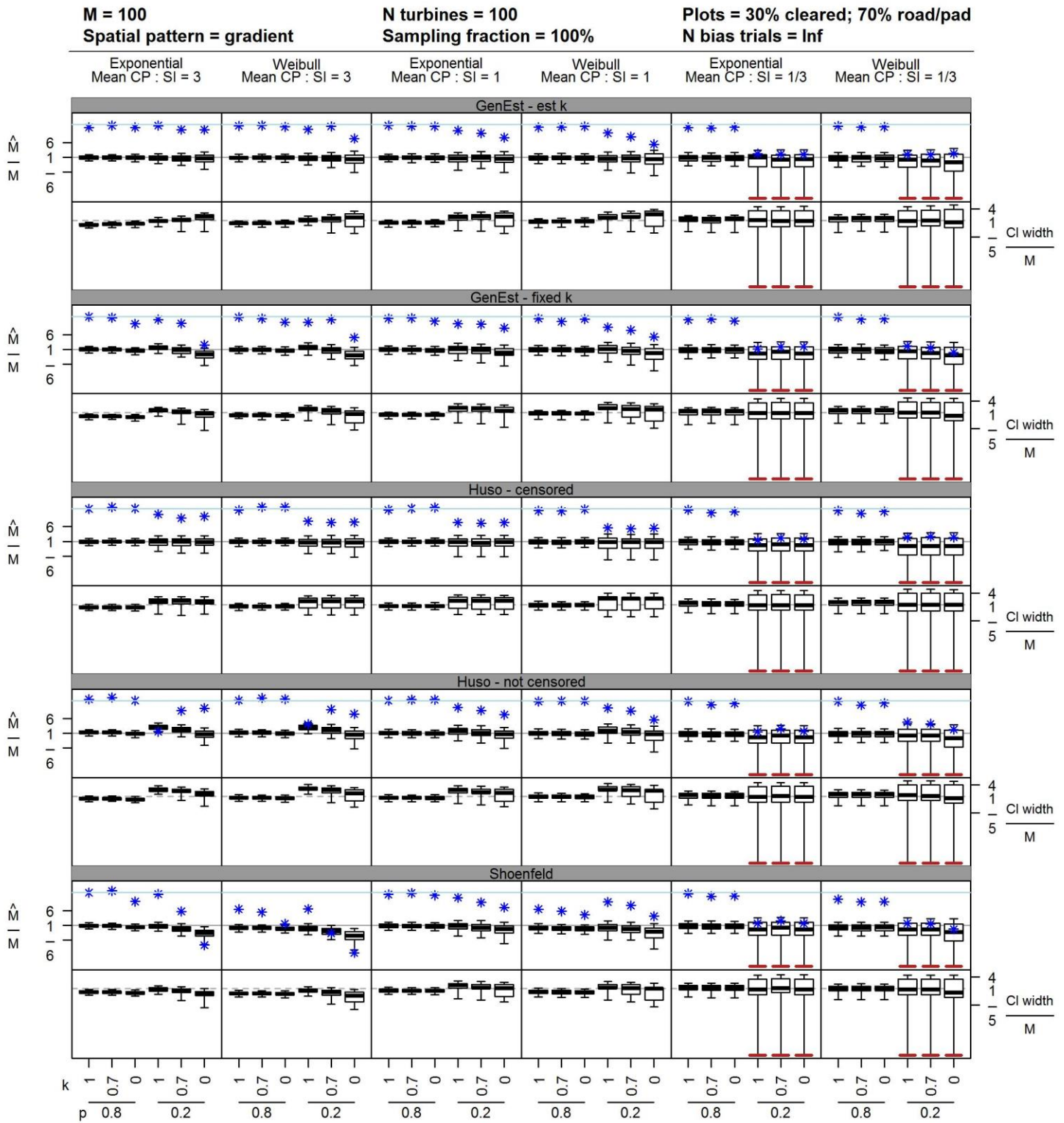


Figure A52. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

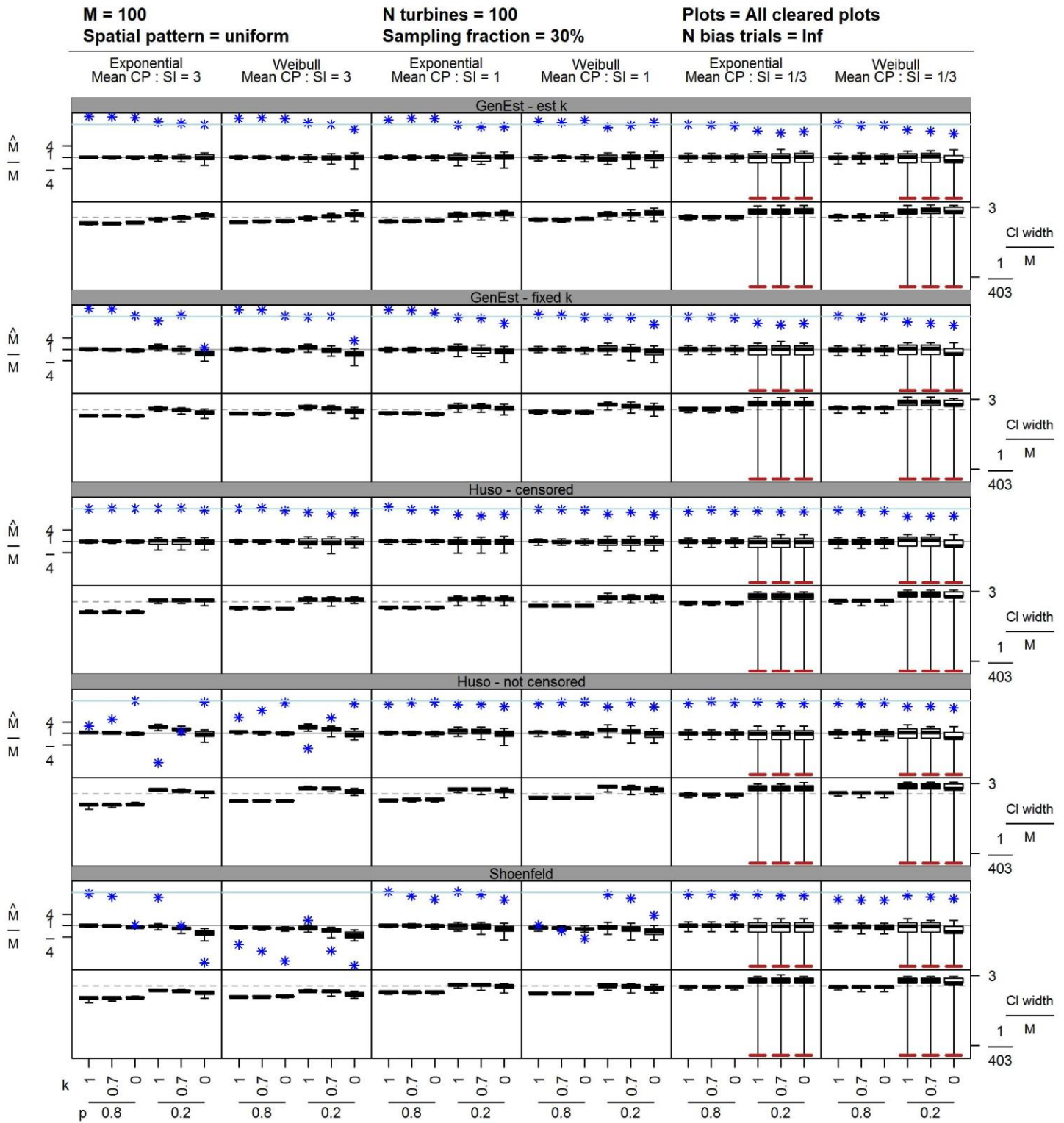


Figure A53. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

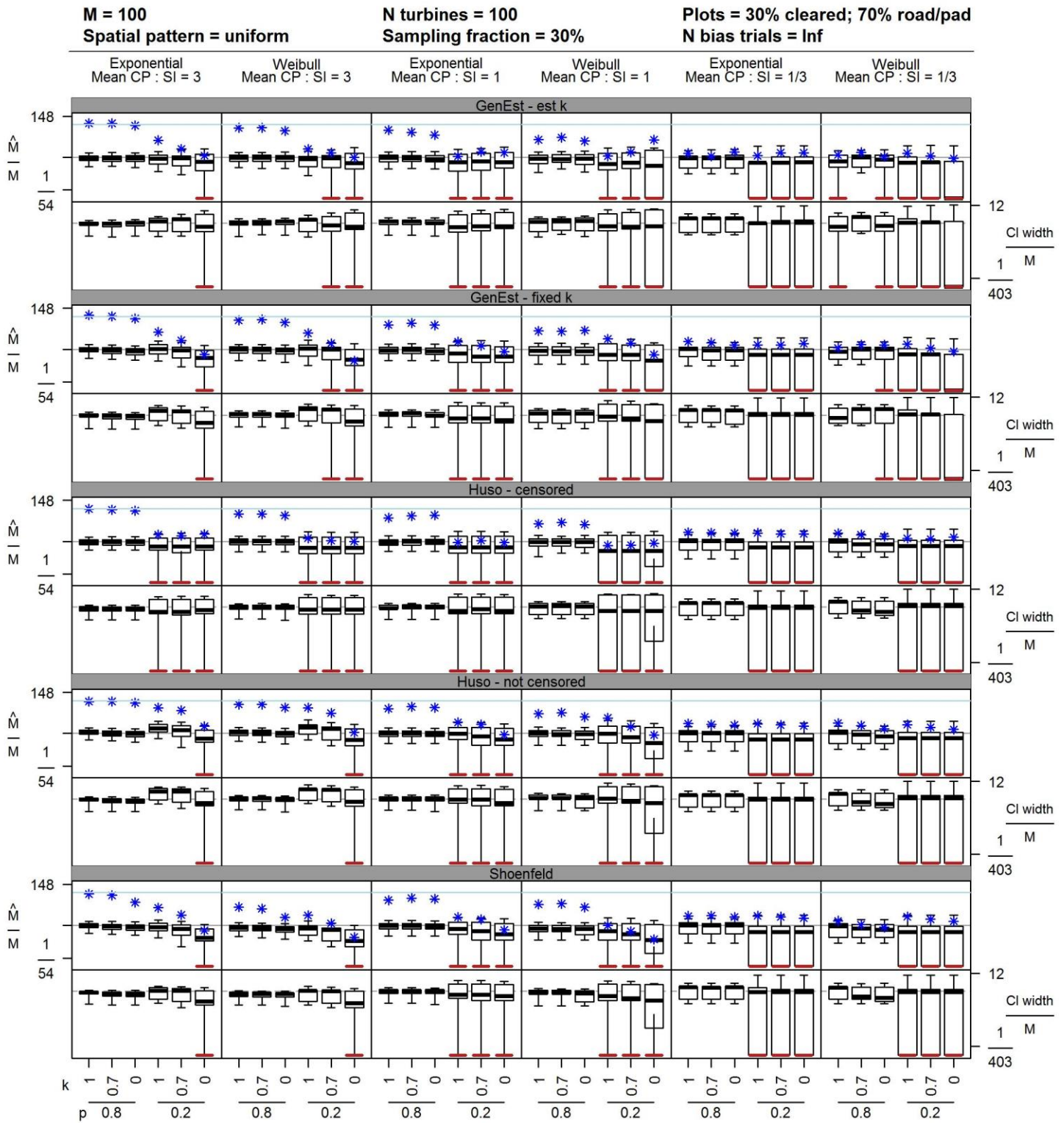


Figure A54. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

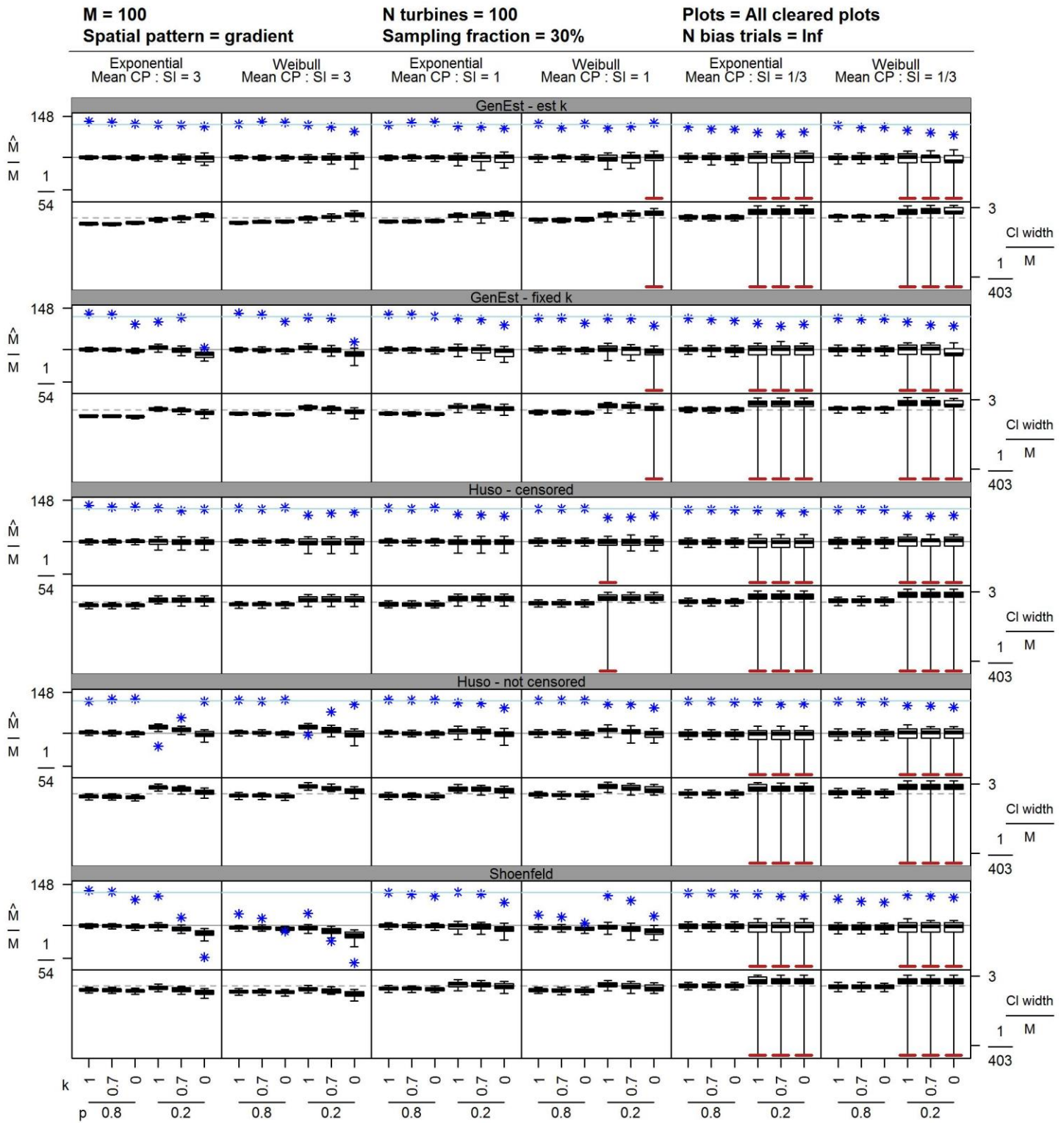


Figure A55. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

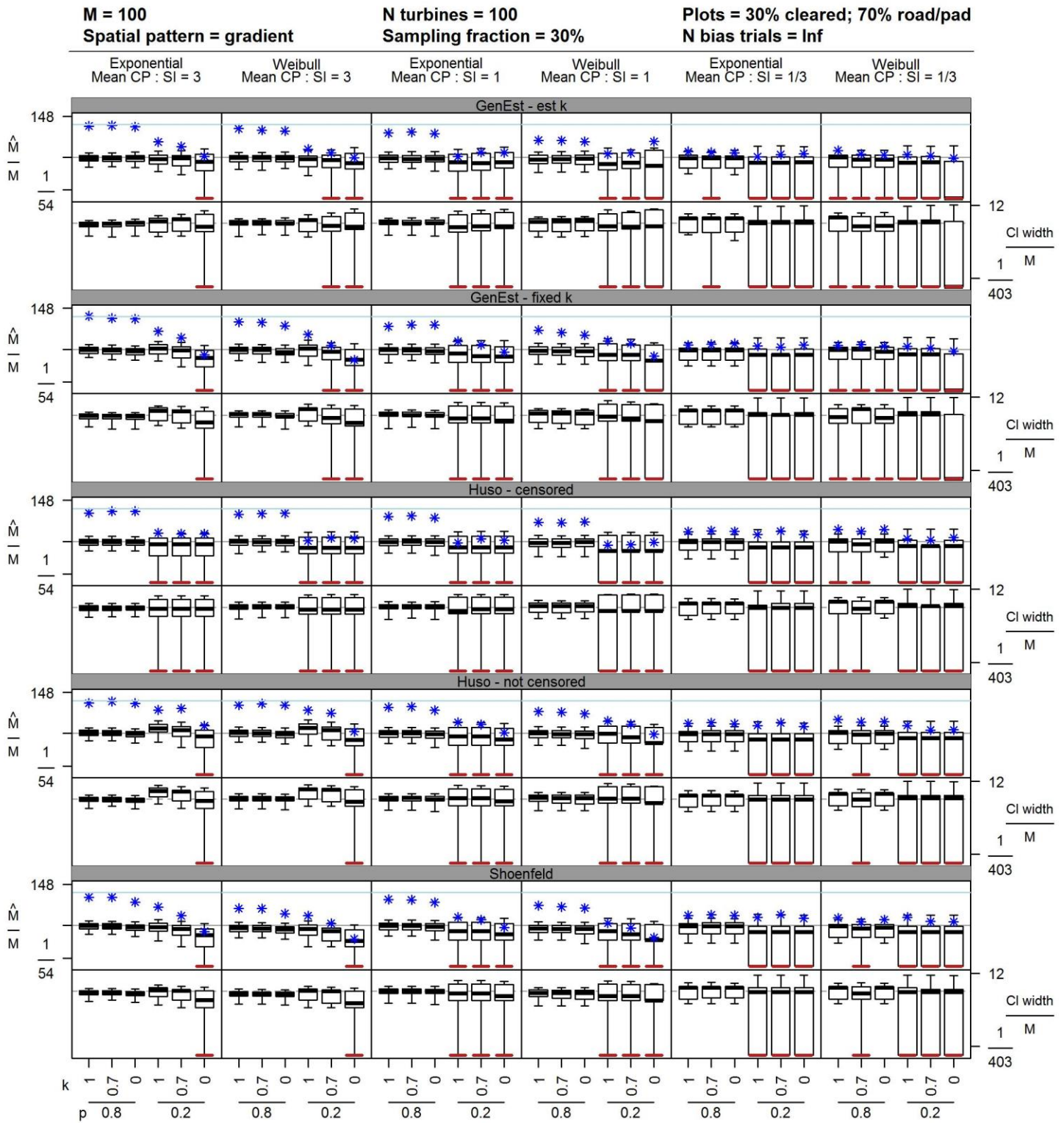


Figure A56. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

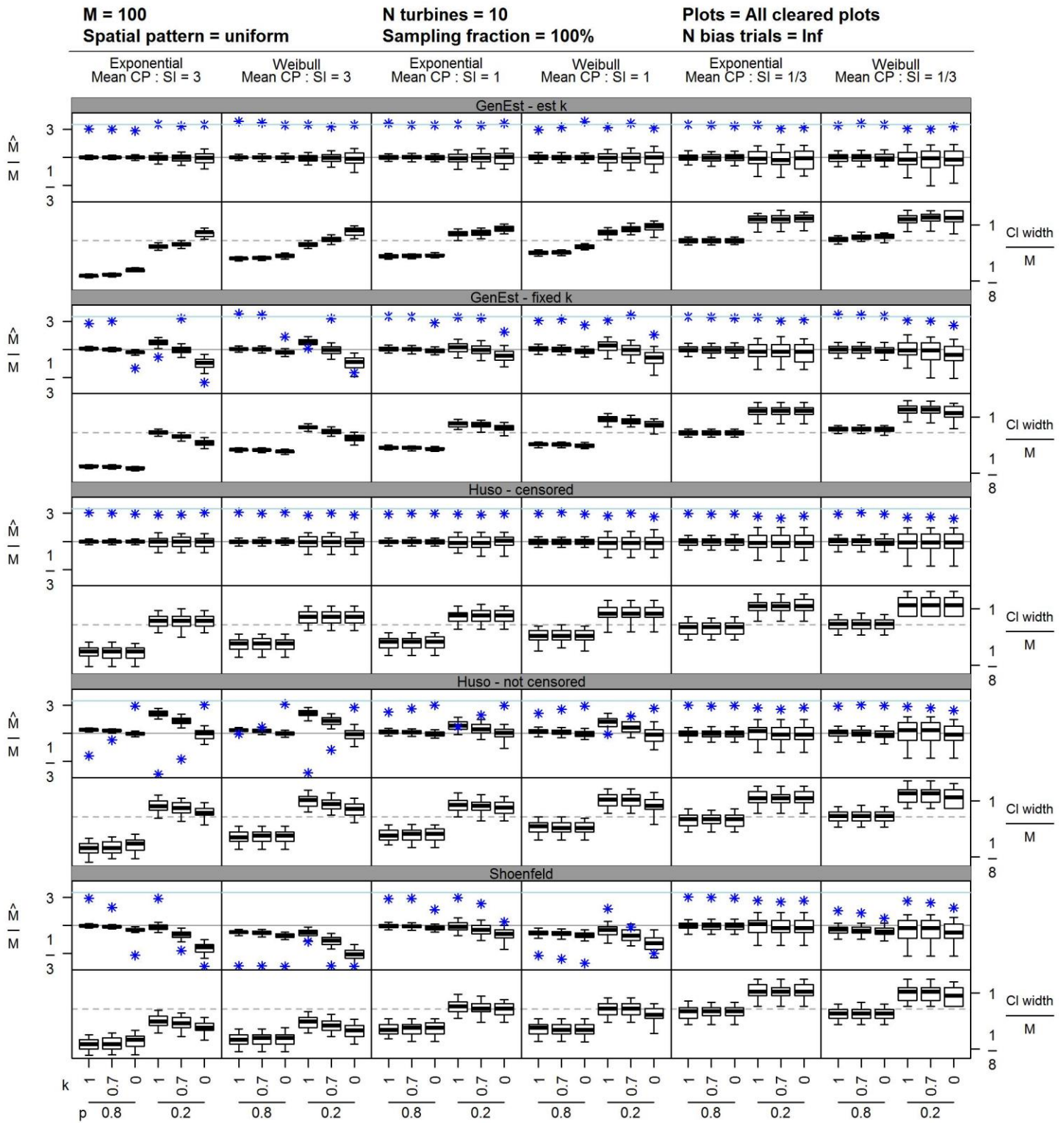


Figure A57. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.





Performance of the GenEst Statistical Mortality Estimator

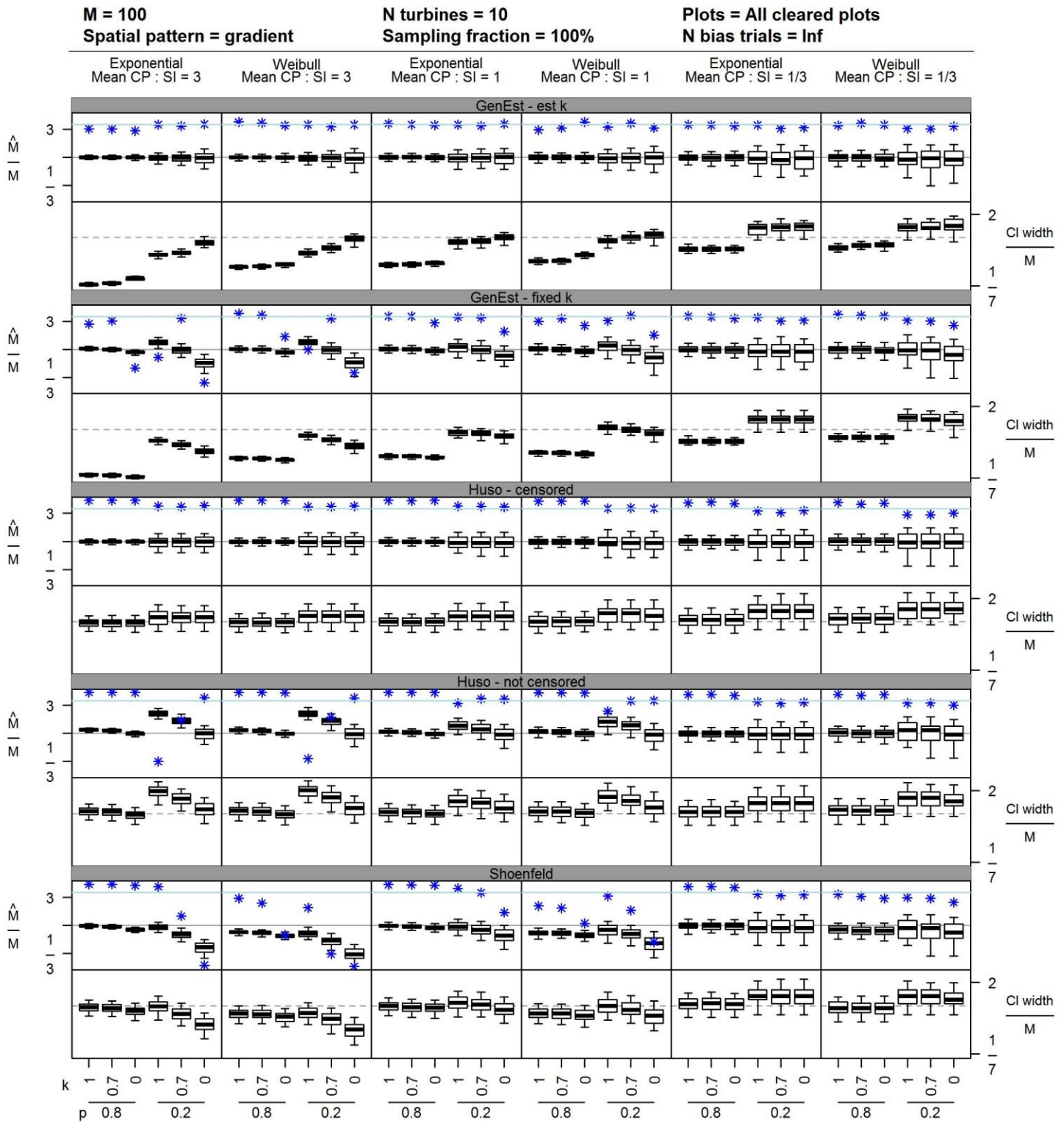


Figure A59. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

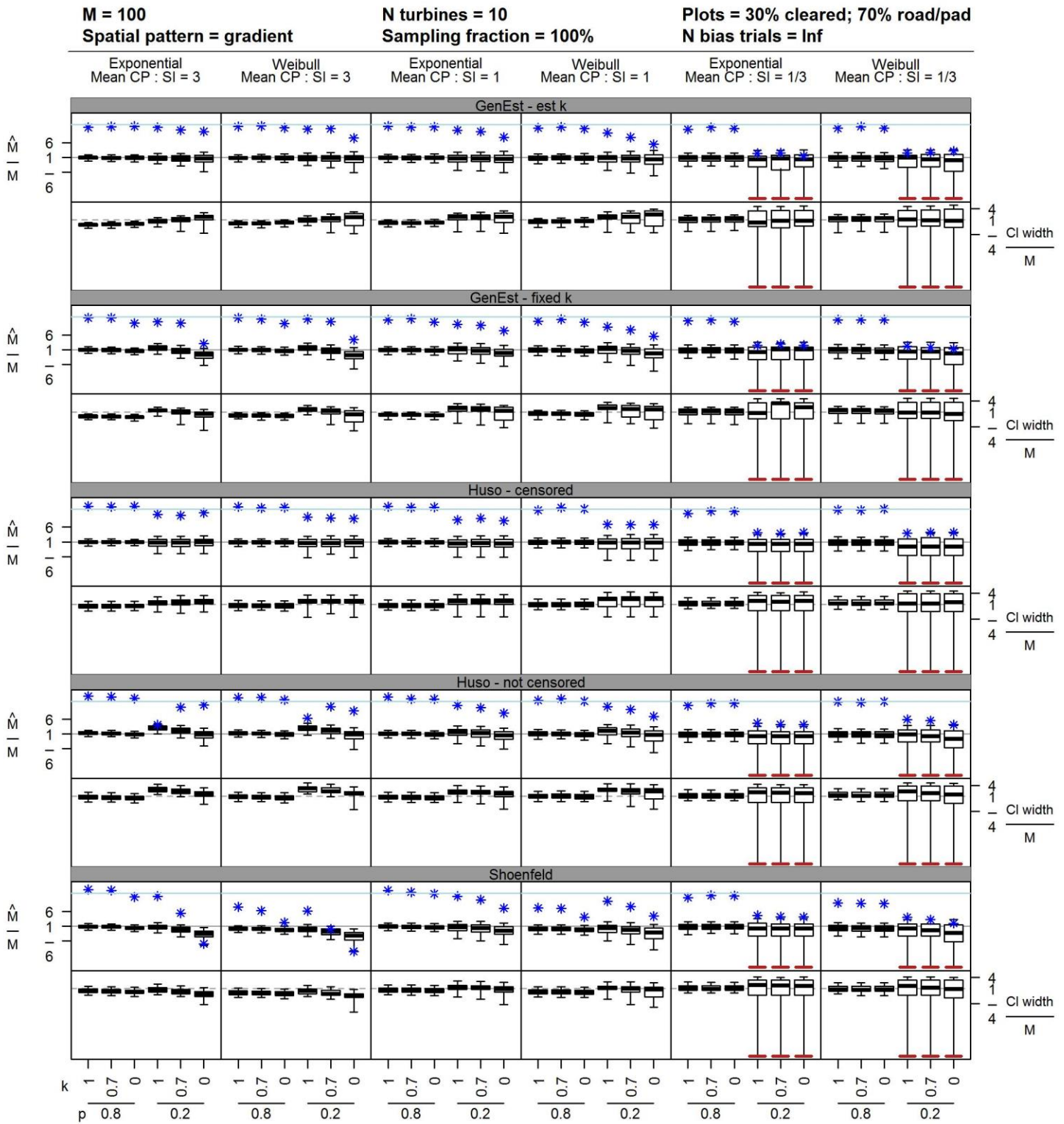


Figure A60. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

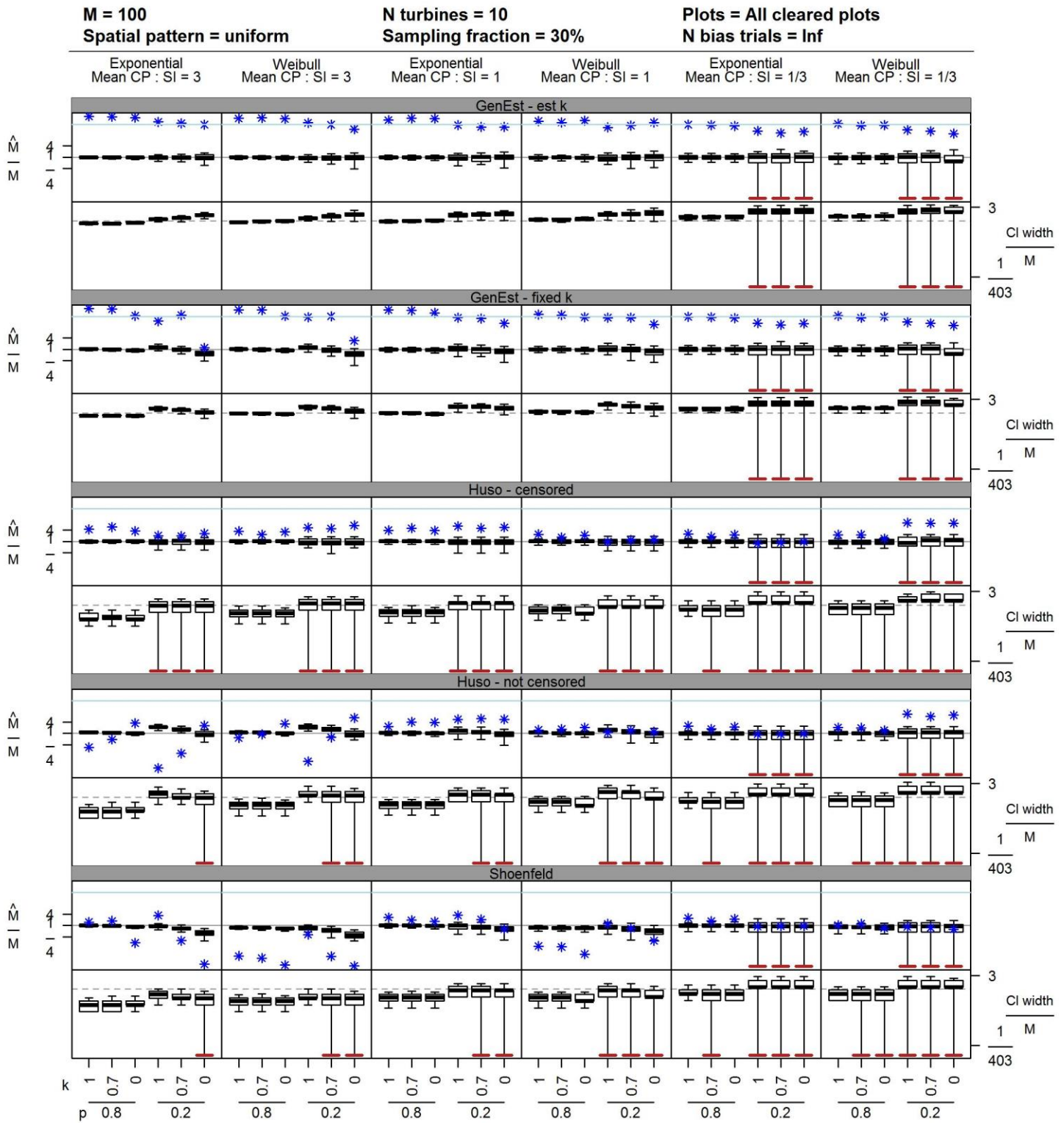


Figure A61. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

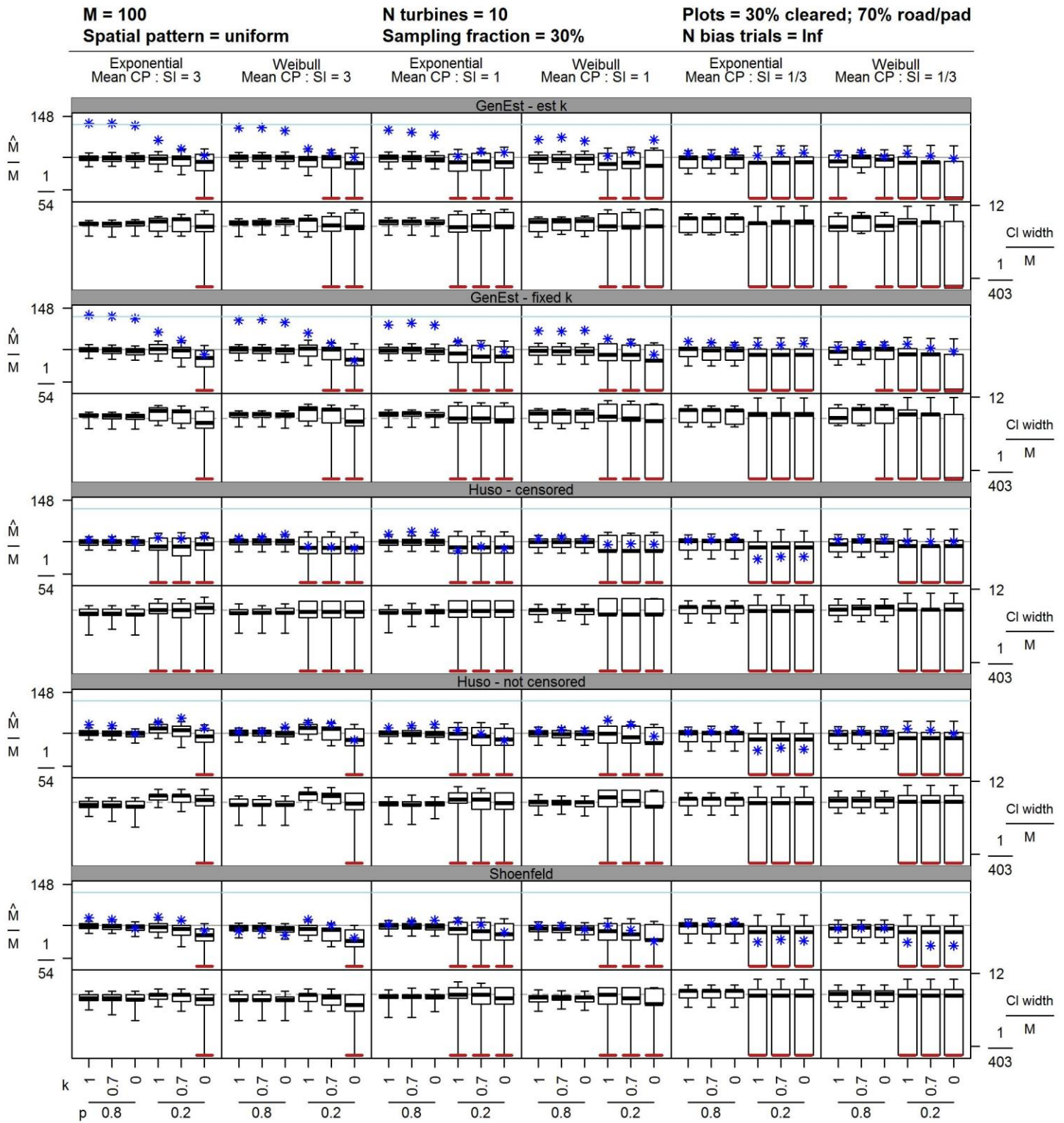


Figure A62. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

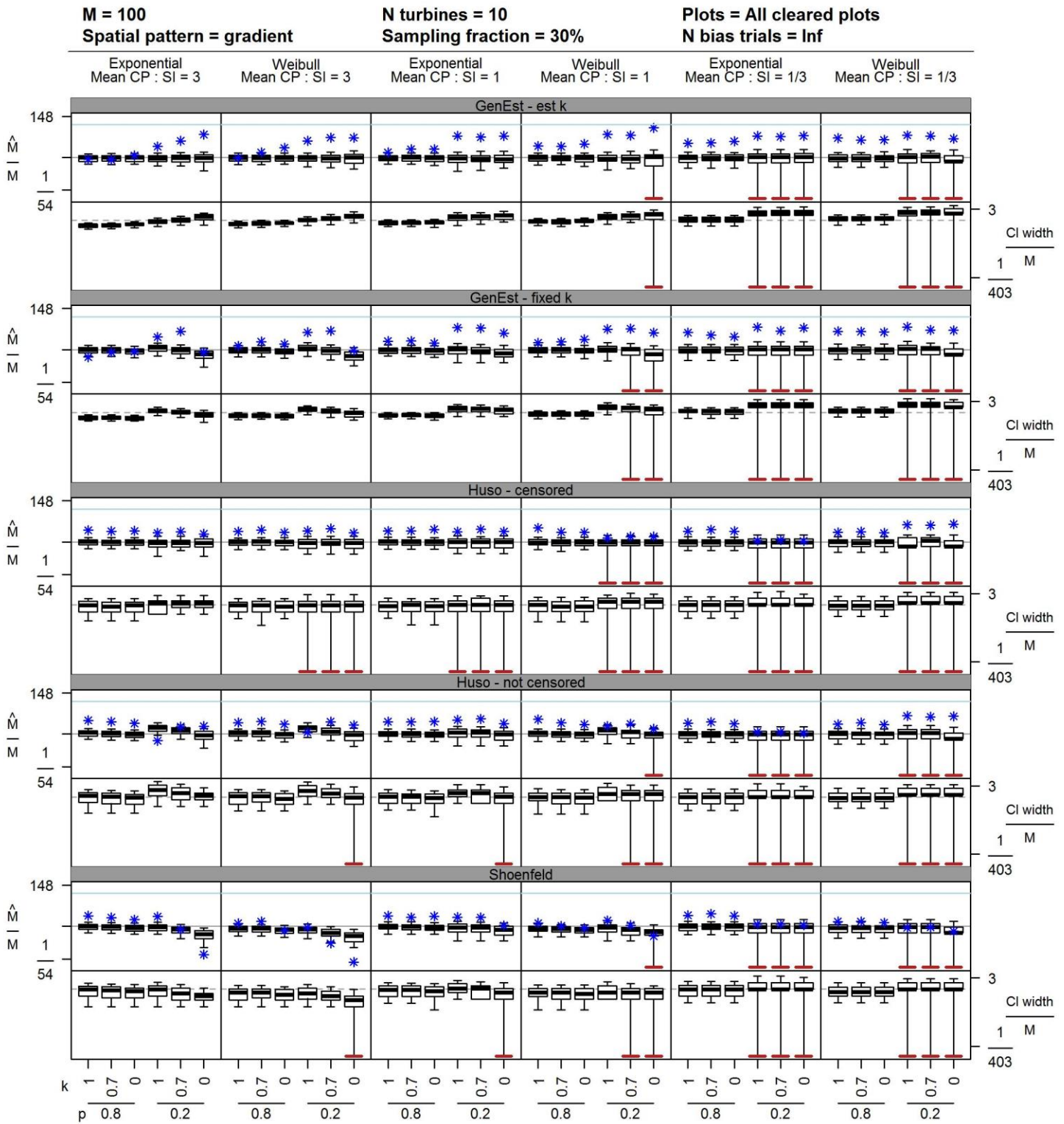


Figure A63. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

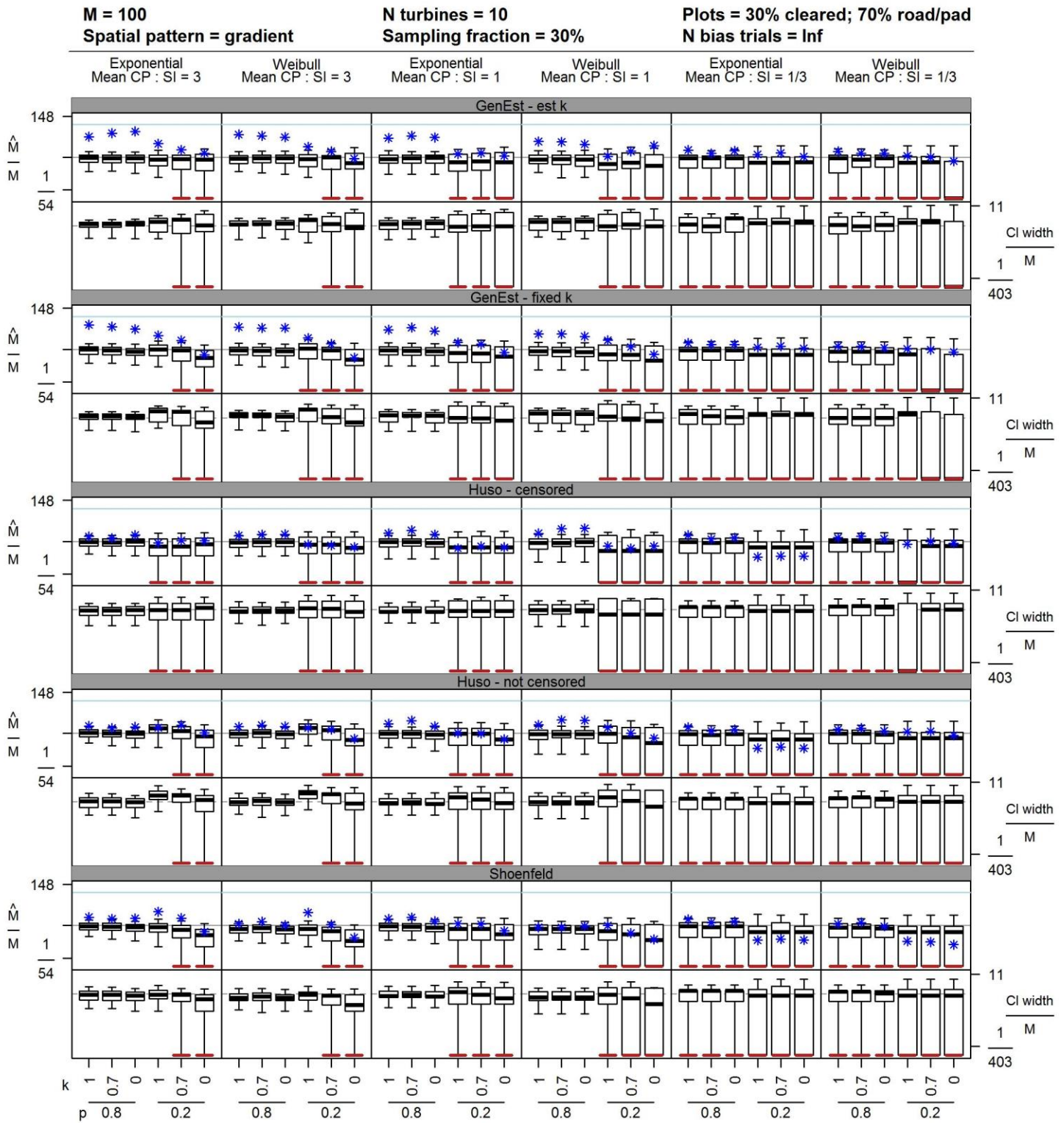


Figure A64. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

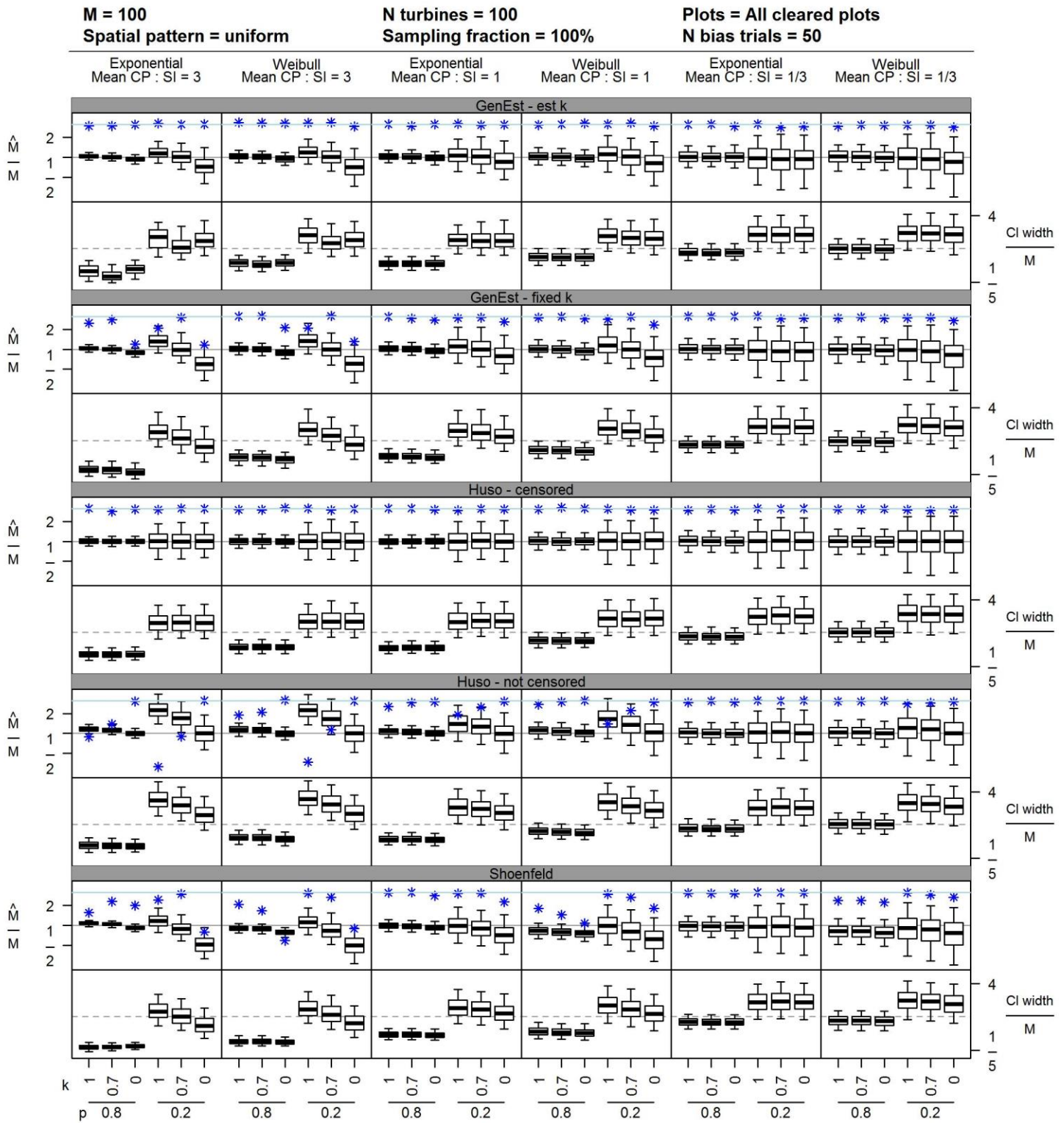


Figure A65. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

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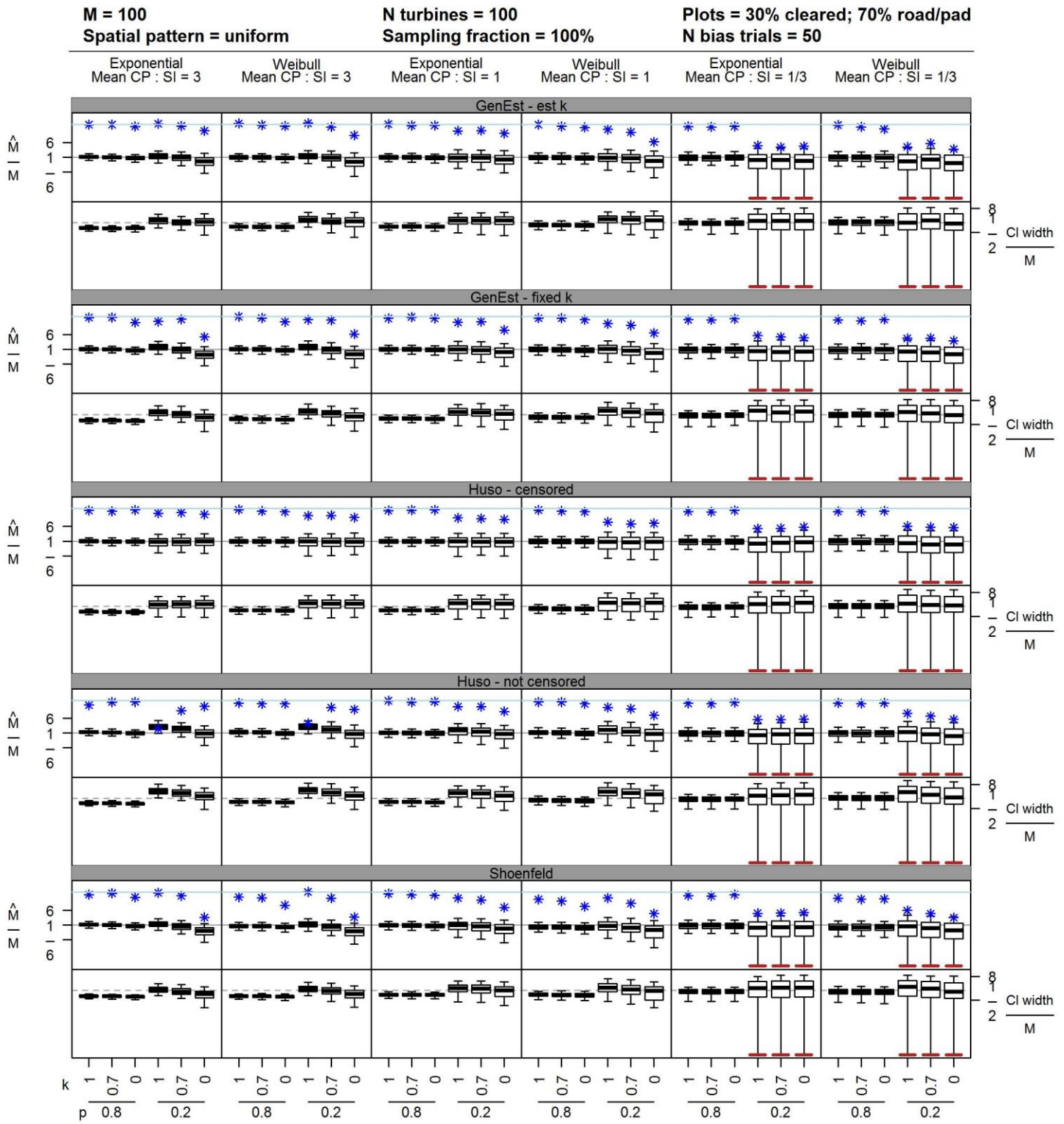


Figure A66. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

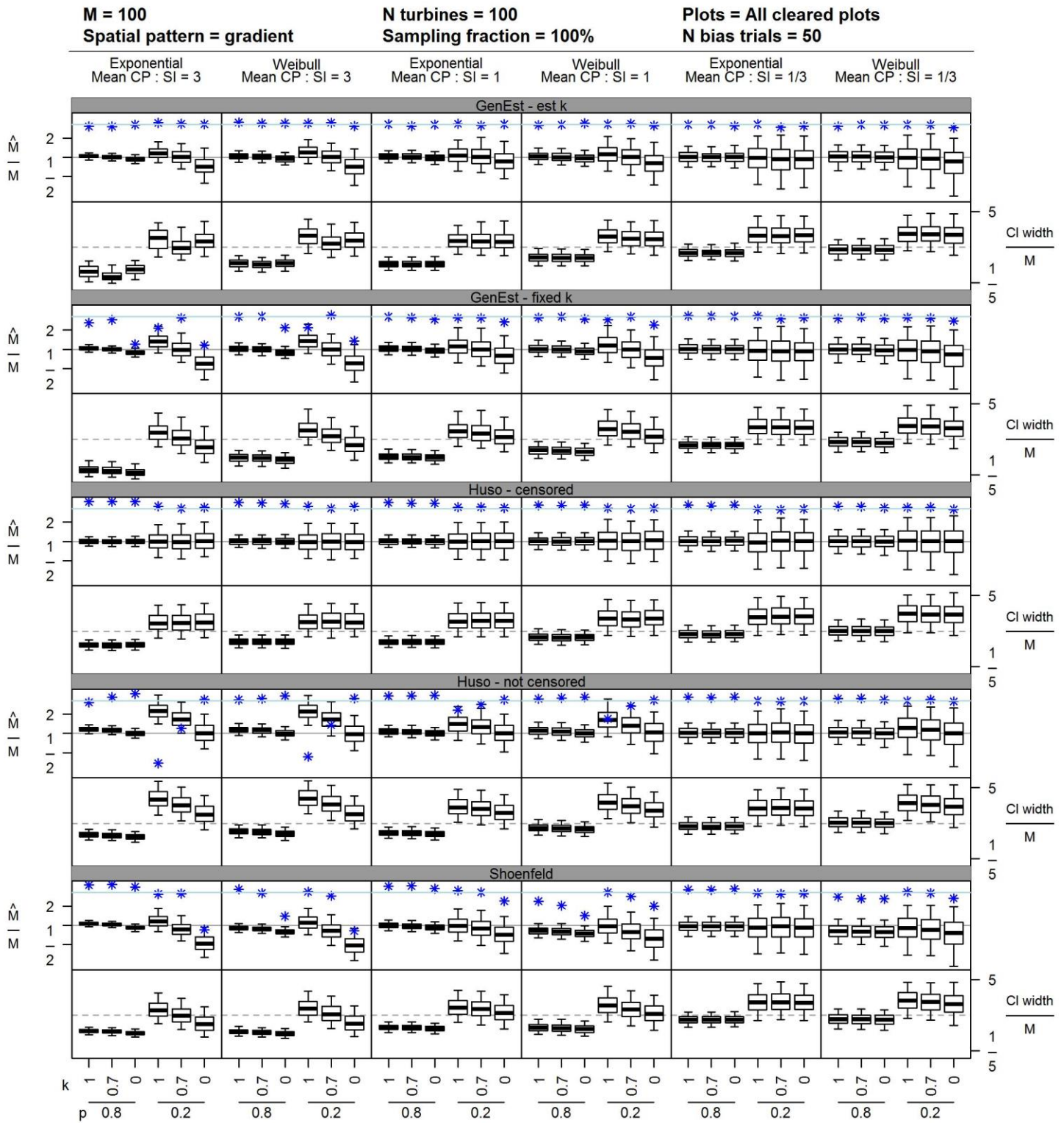


Figure A67. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

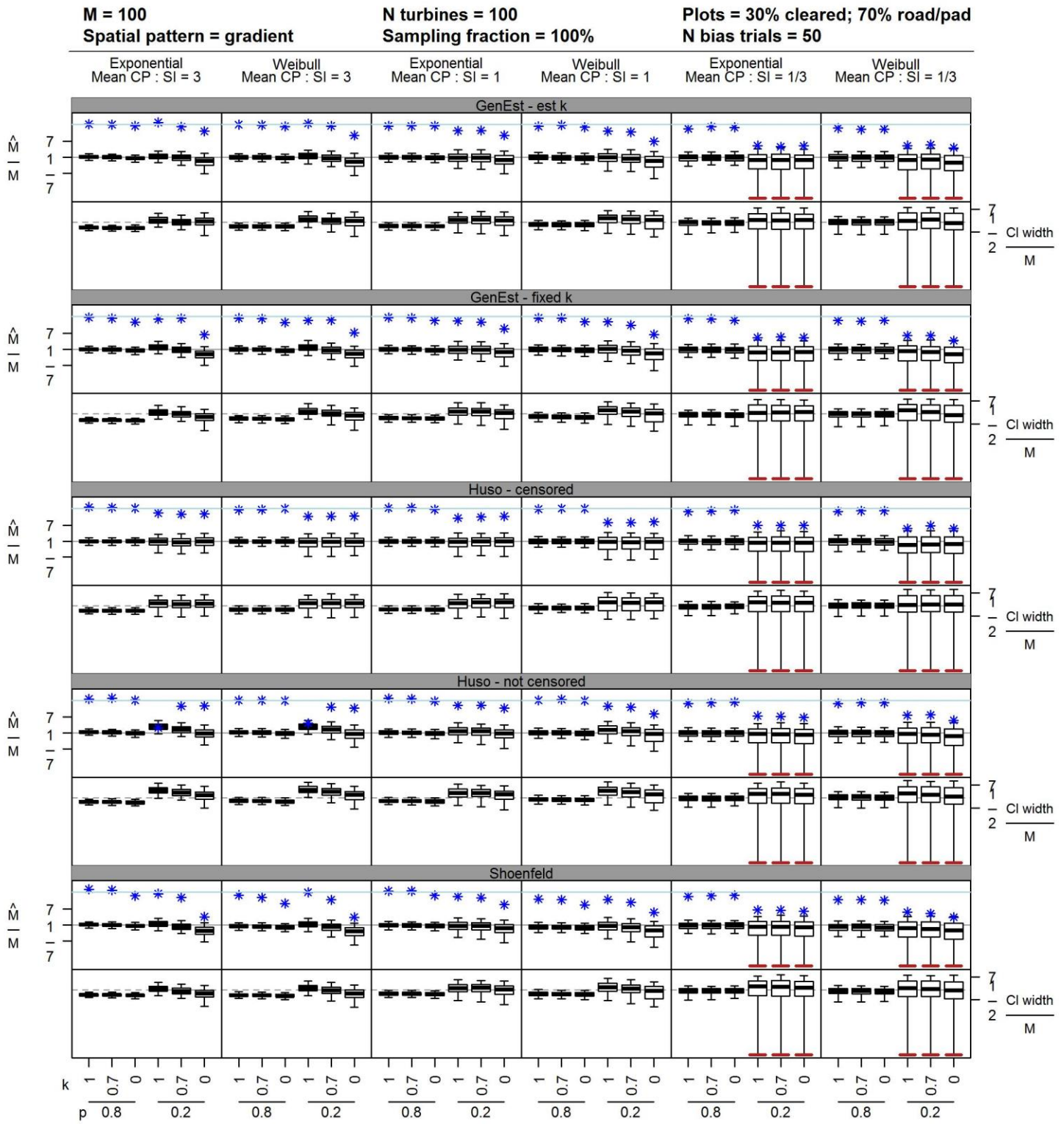


Figure A68. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

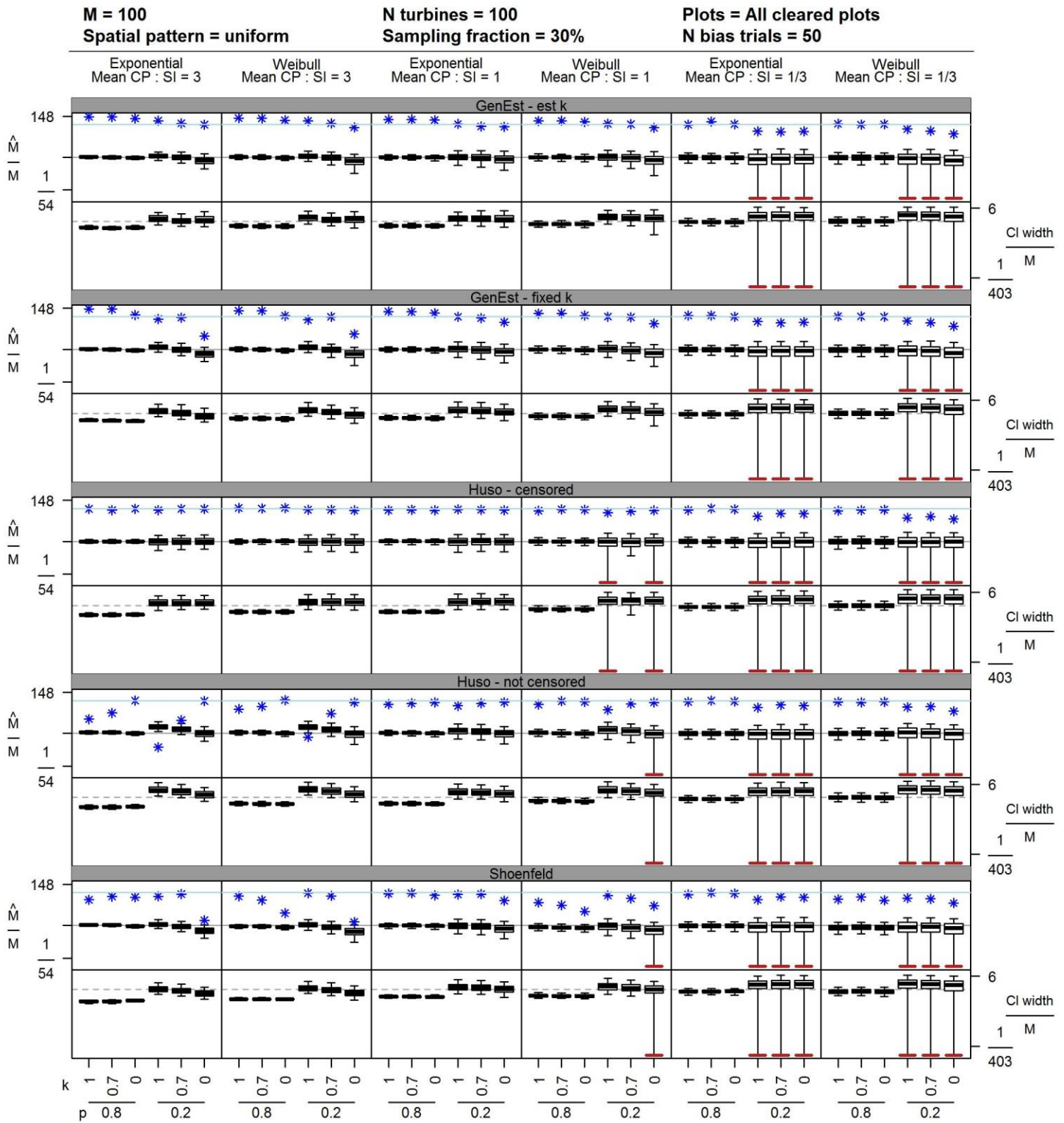


Figure A69. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

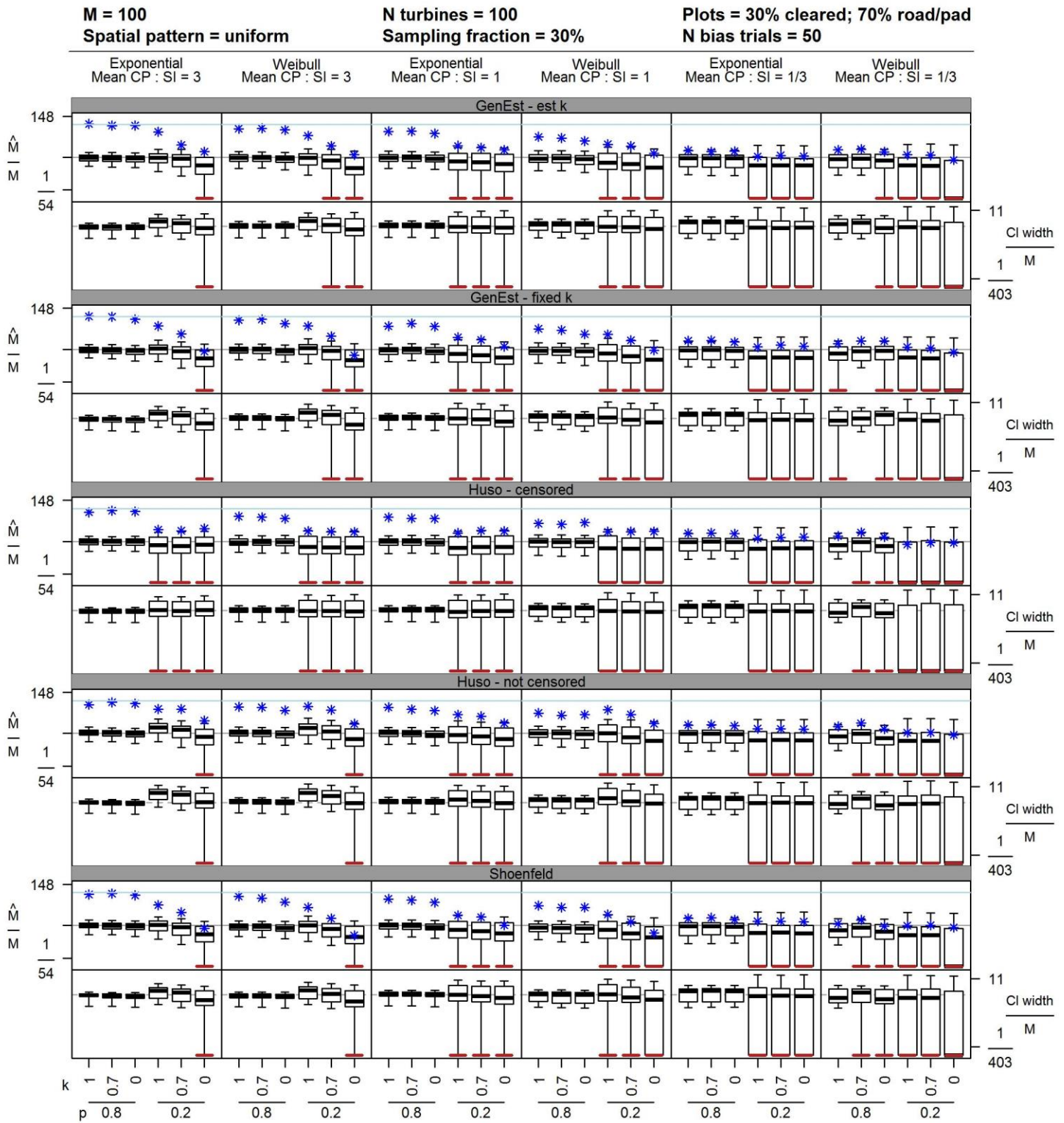


Figure A70. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

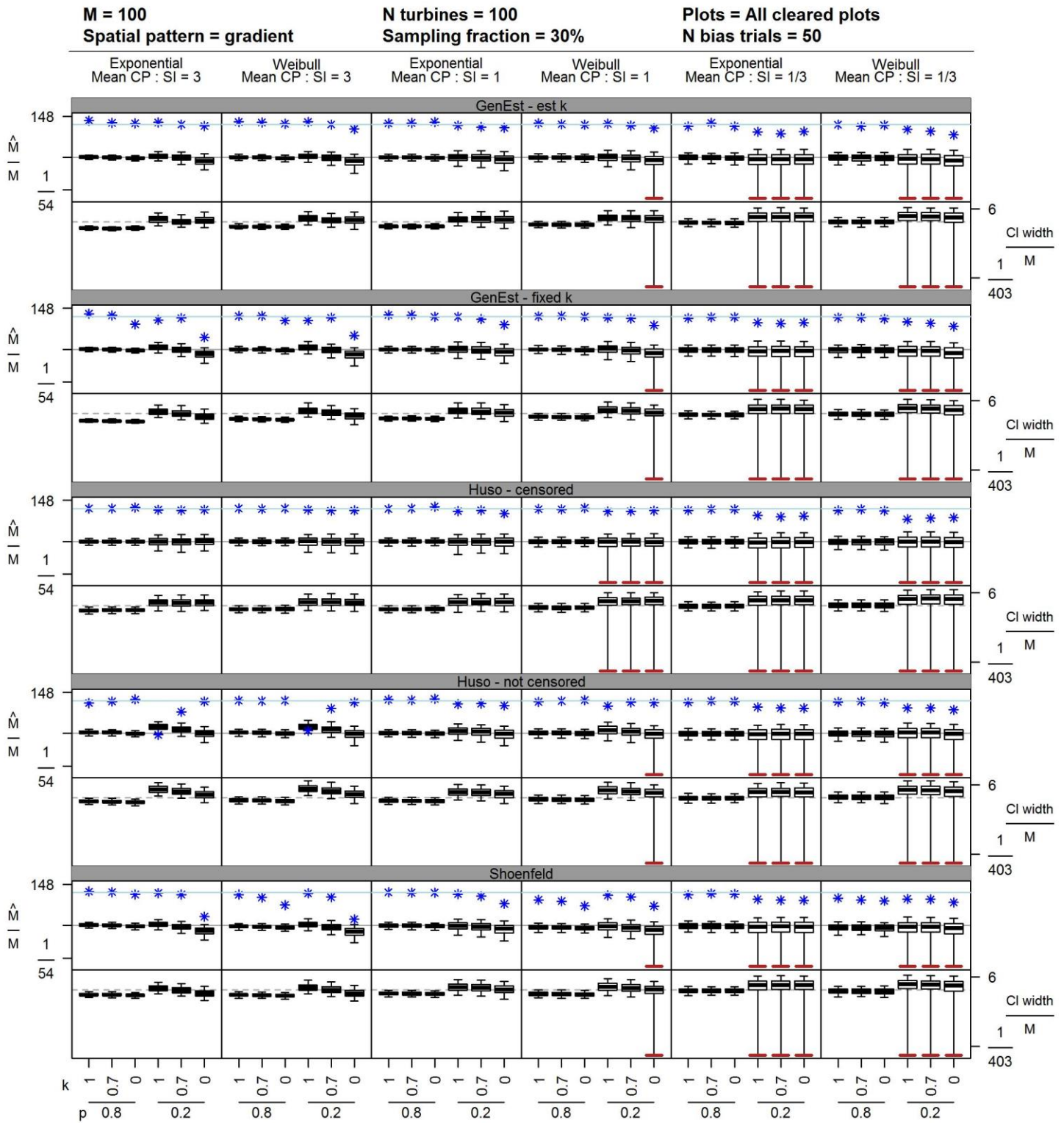


Figure A71. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

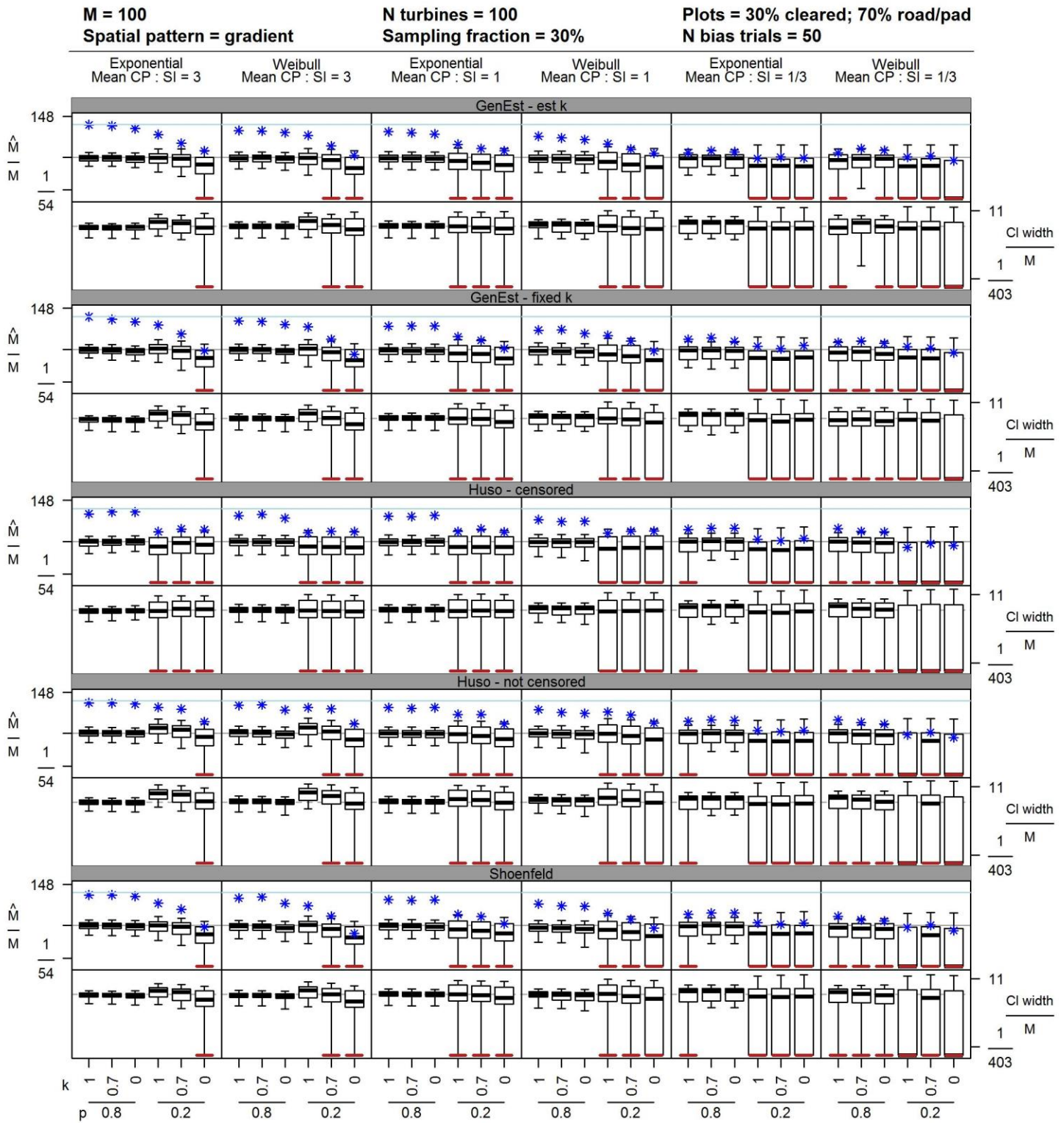


Figure A72. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

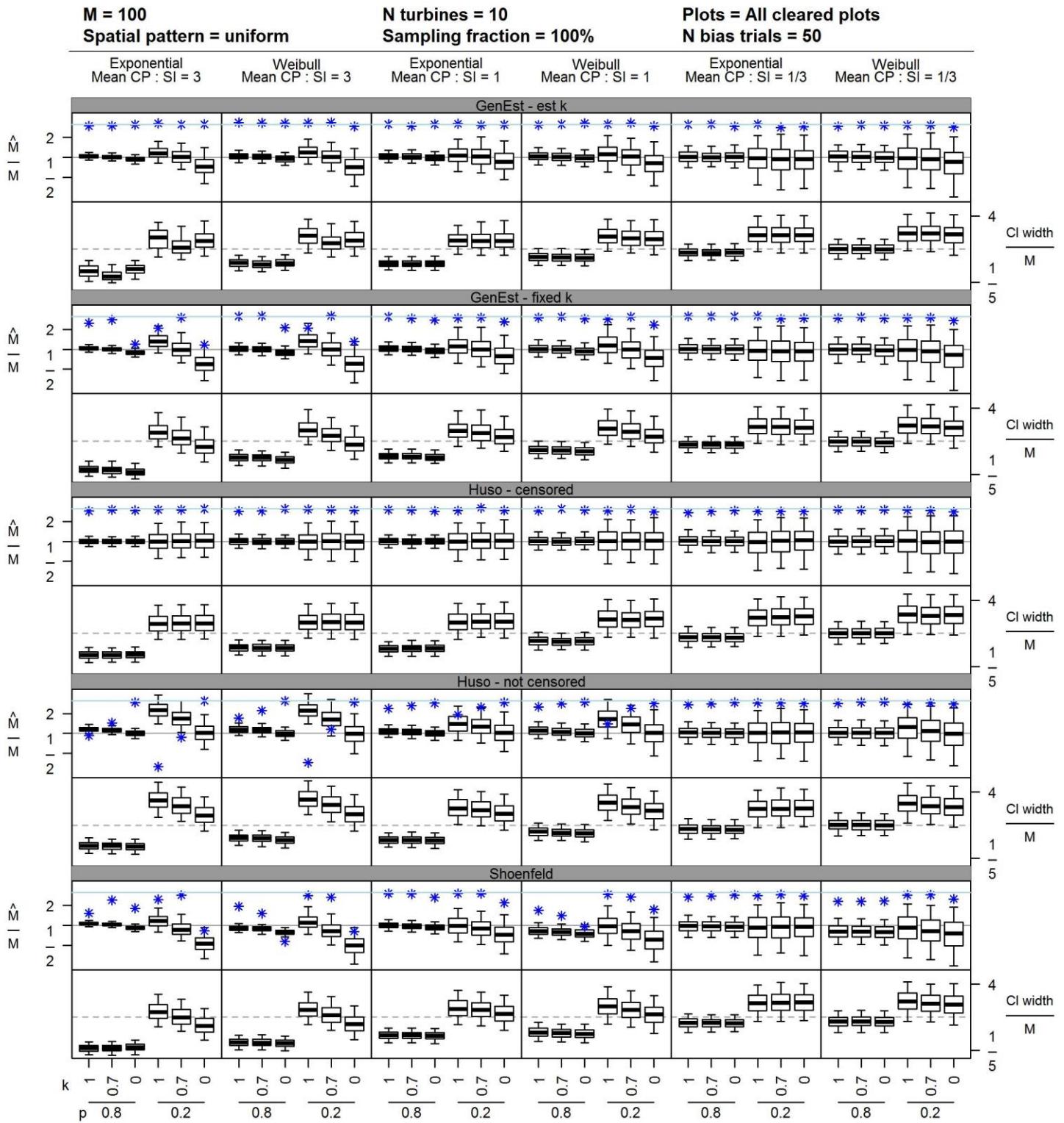


Figure A73. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

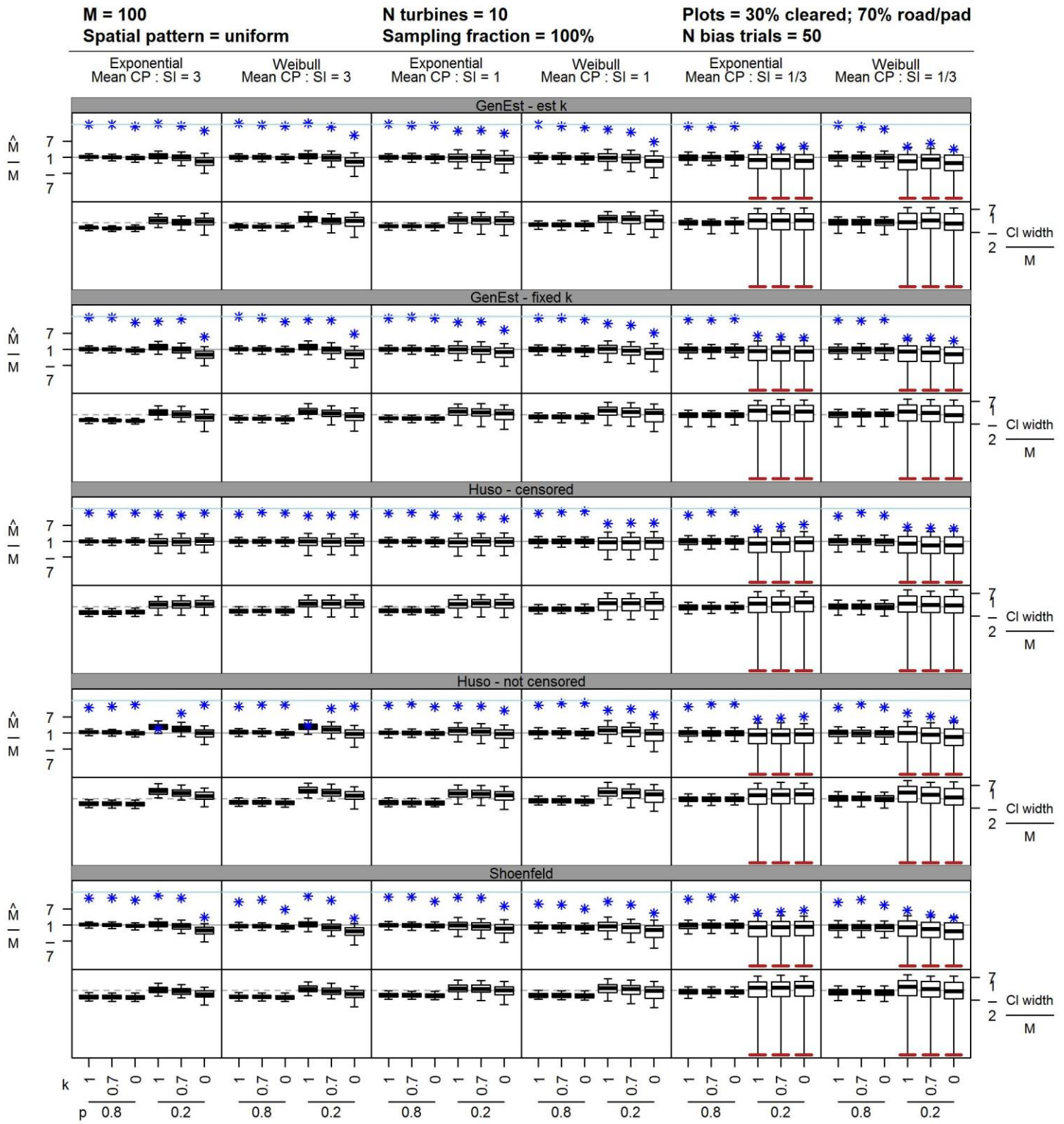


Figure A74. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

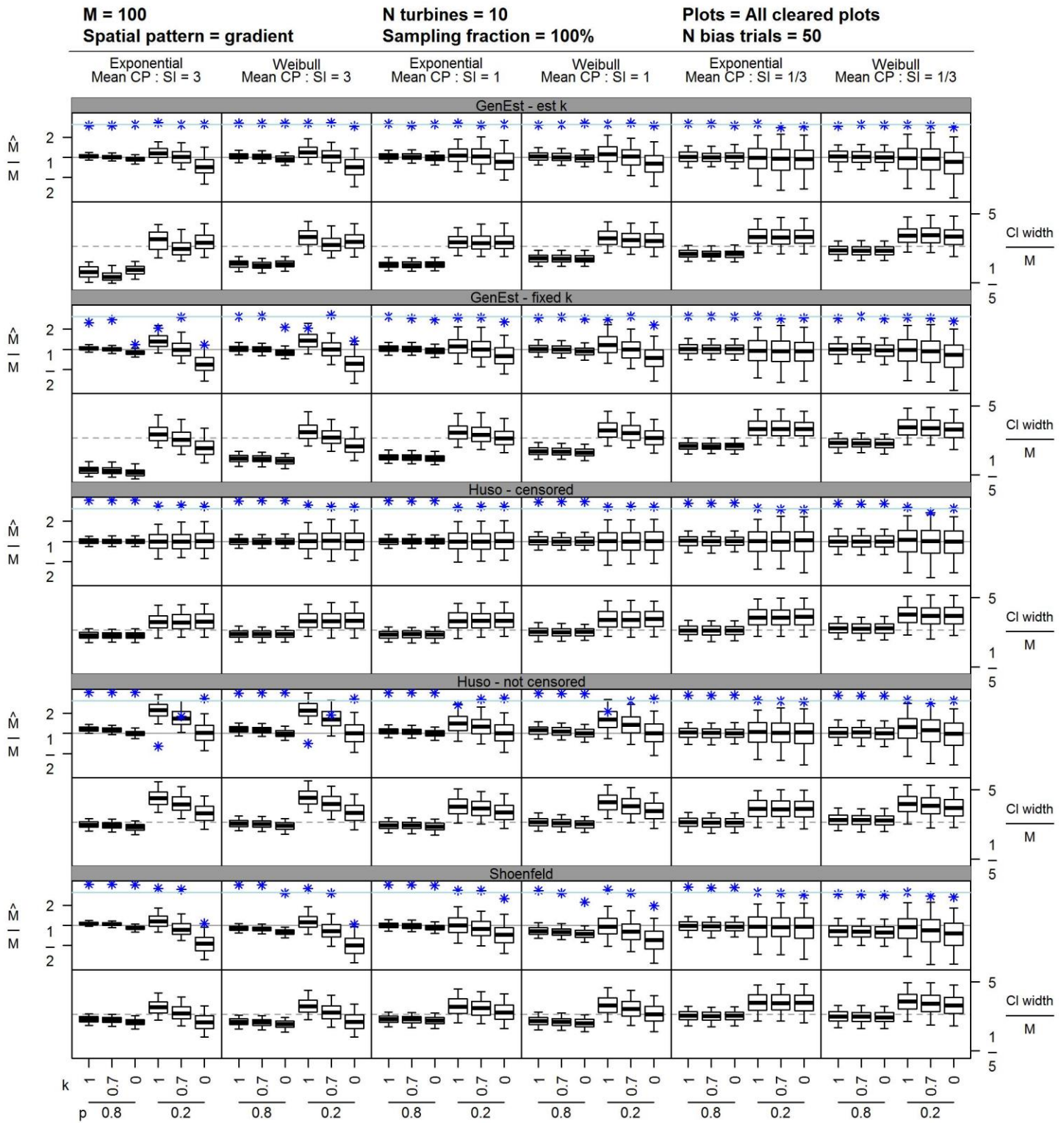


Figure A75. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

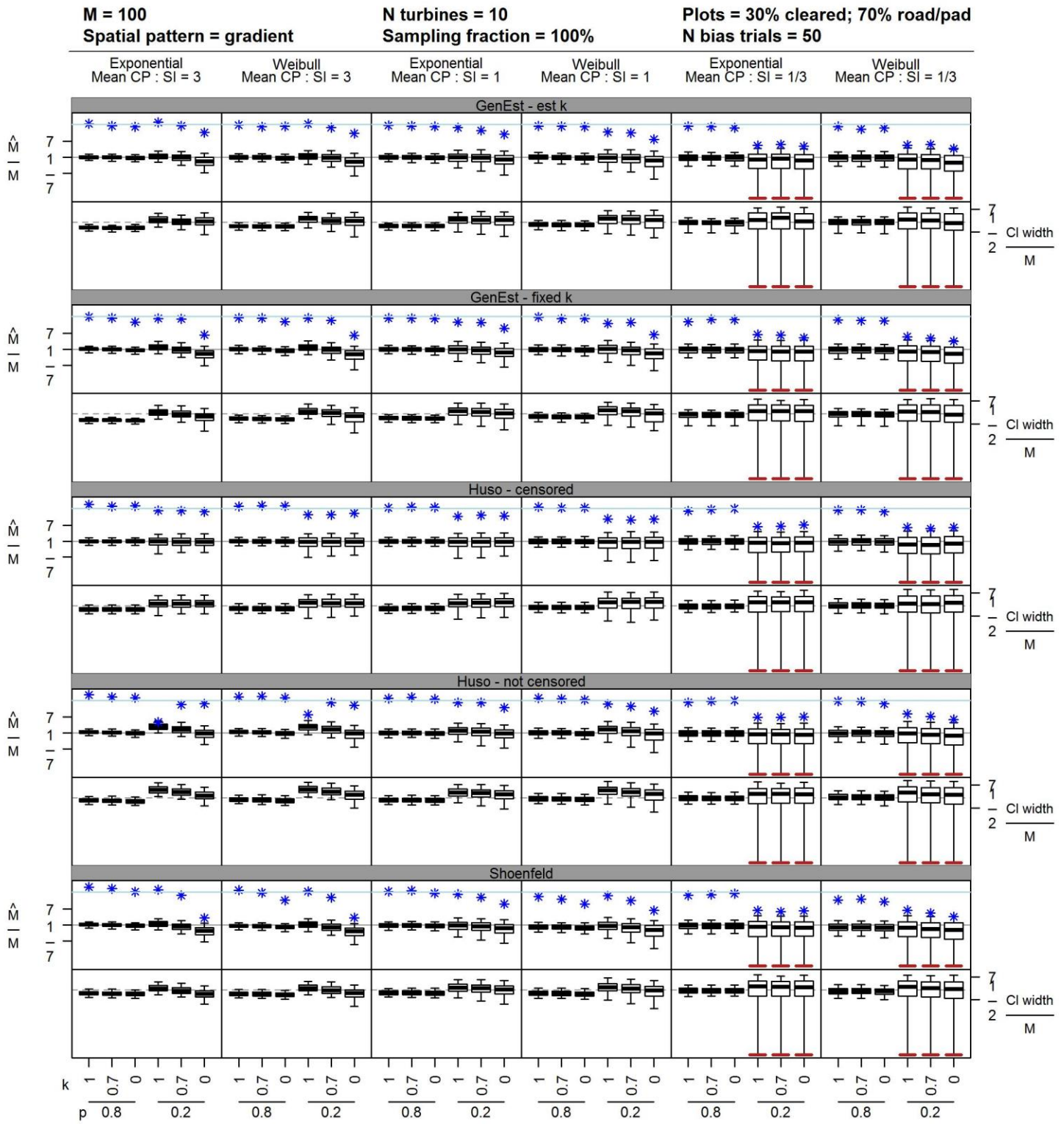


Figure A76. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

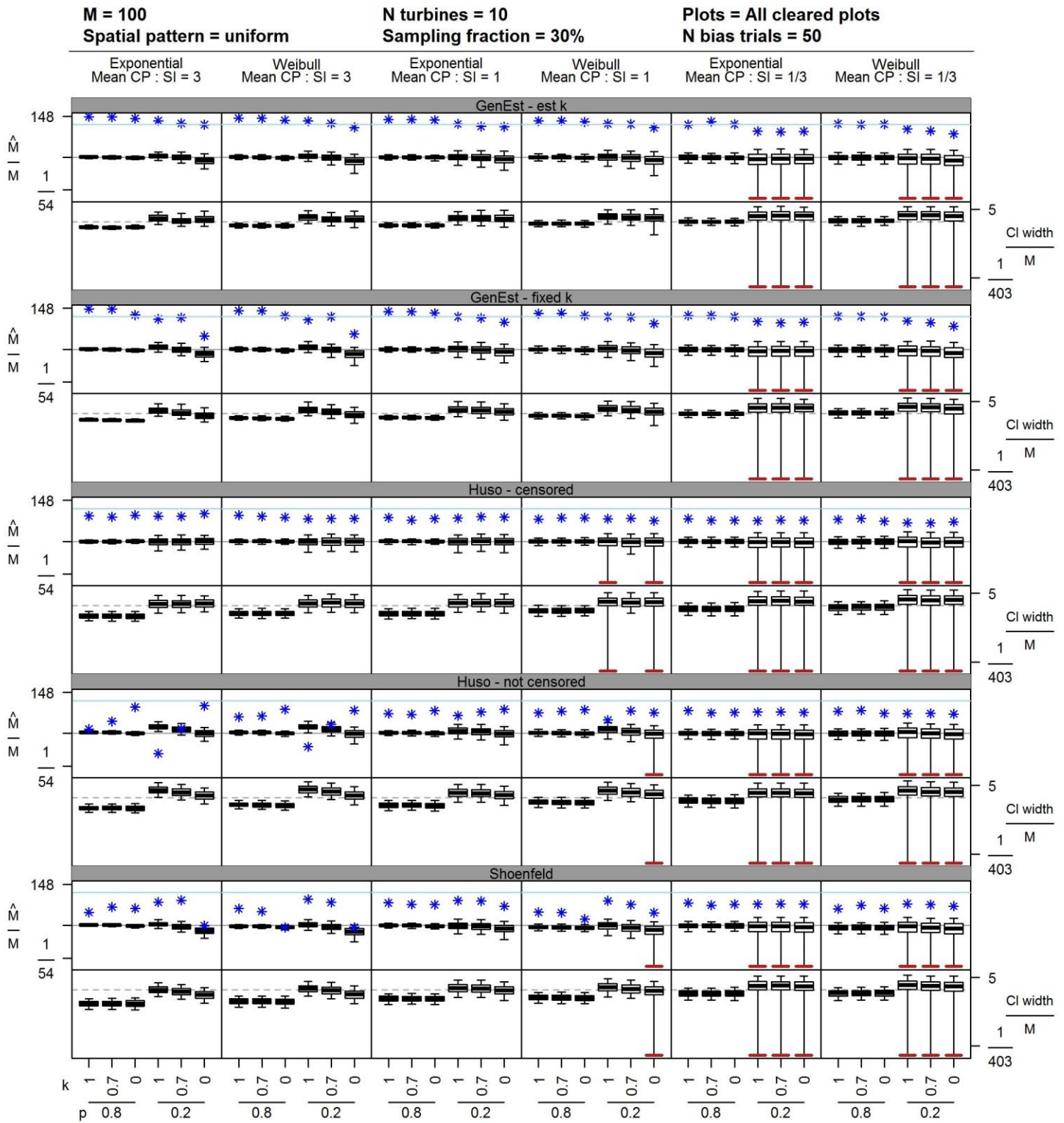


Figure A77. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

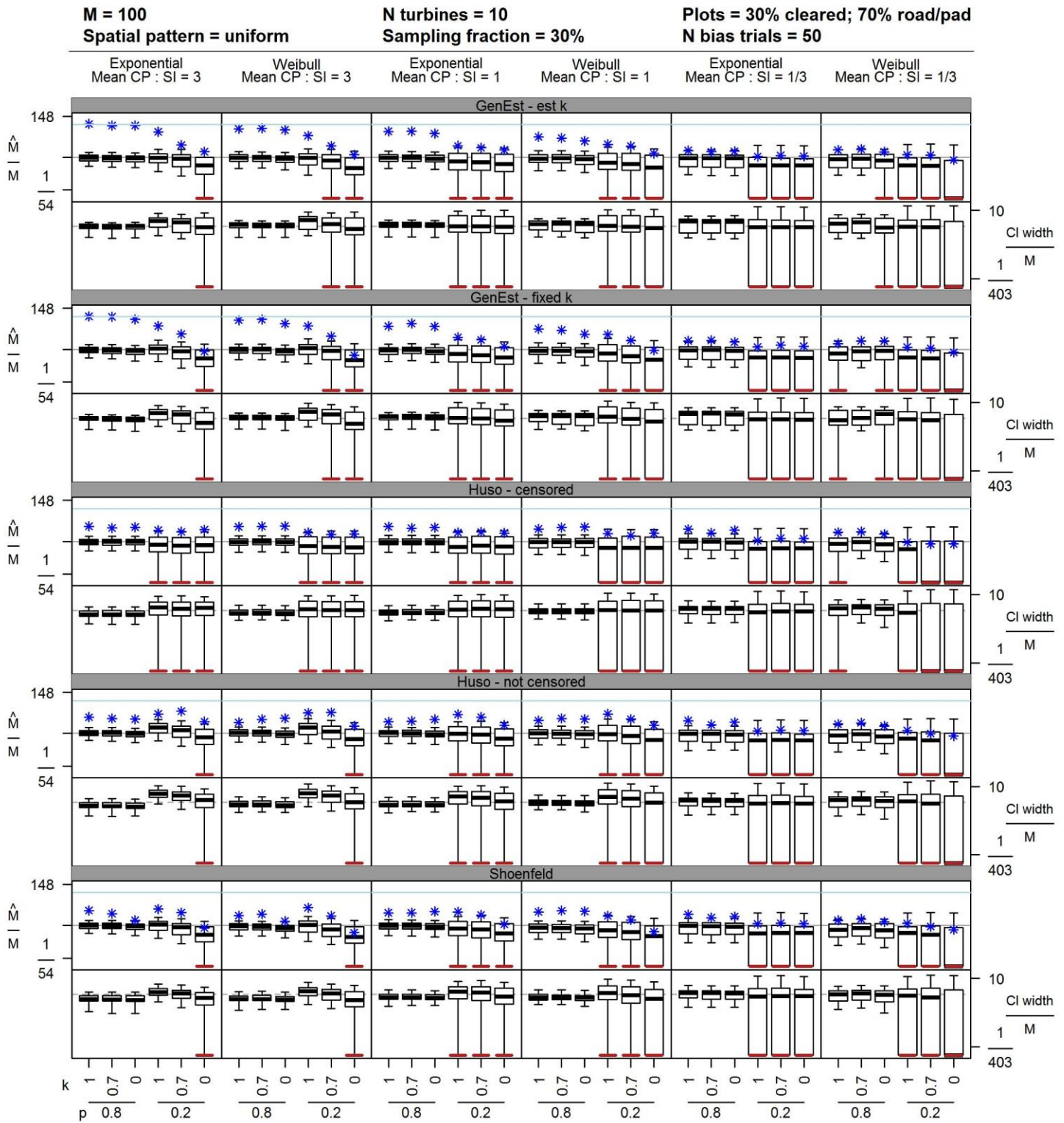


Figure A78. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

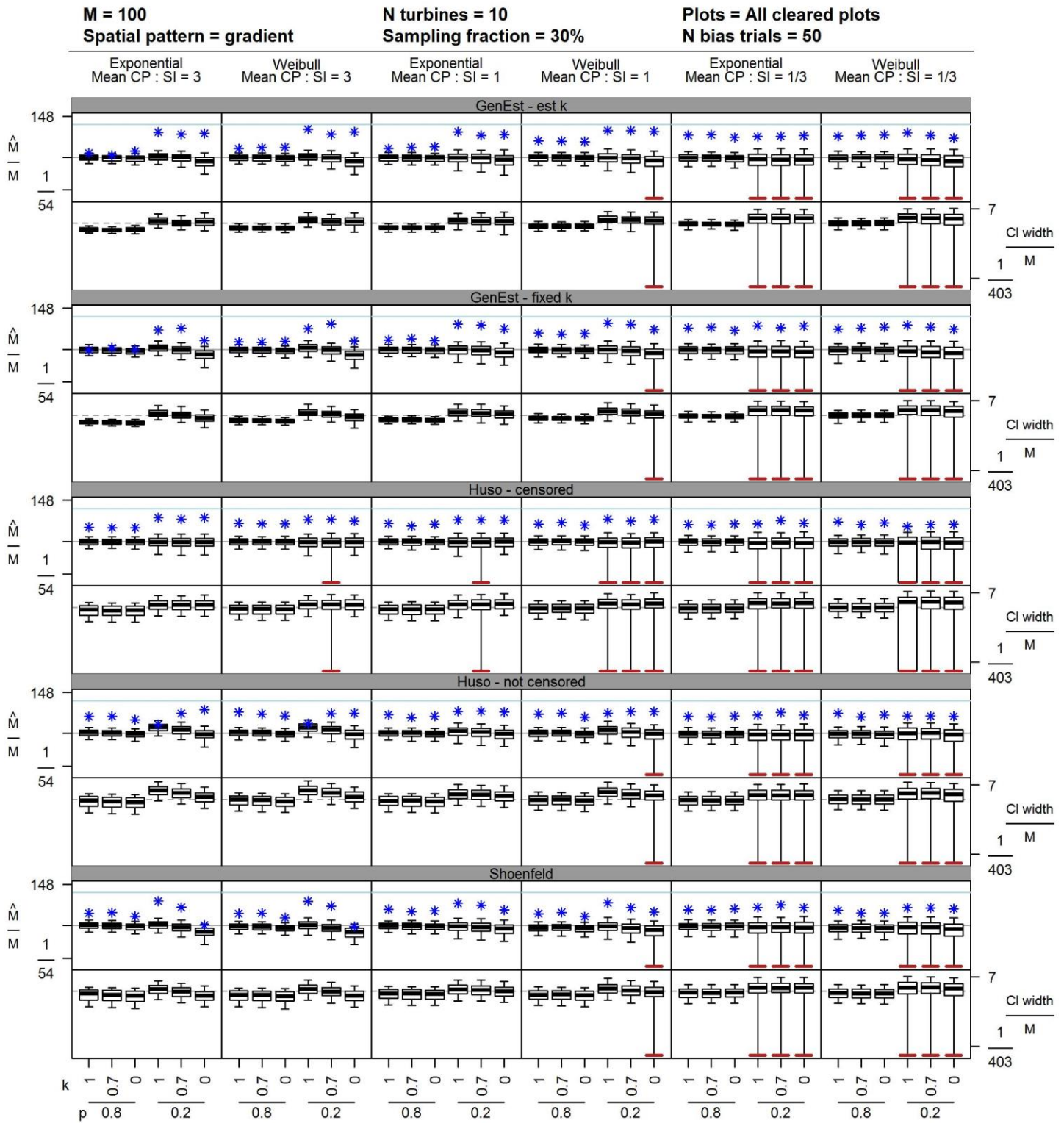


Figure A79. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

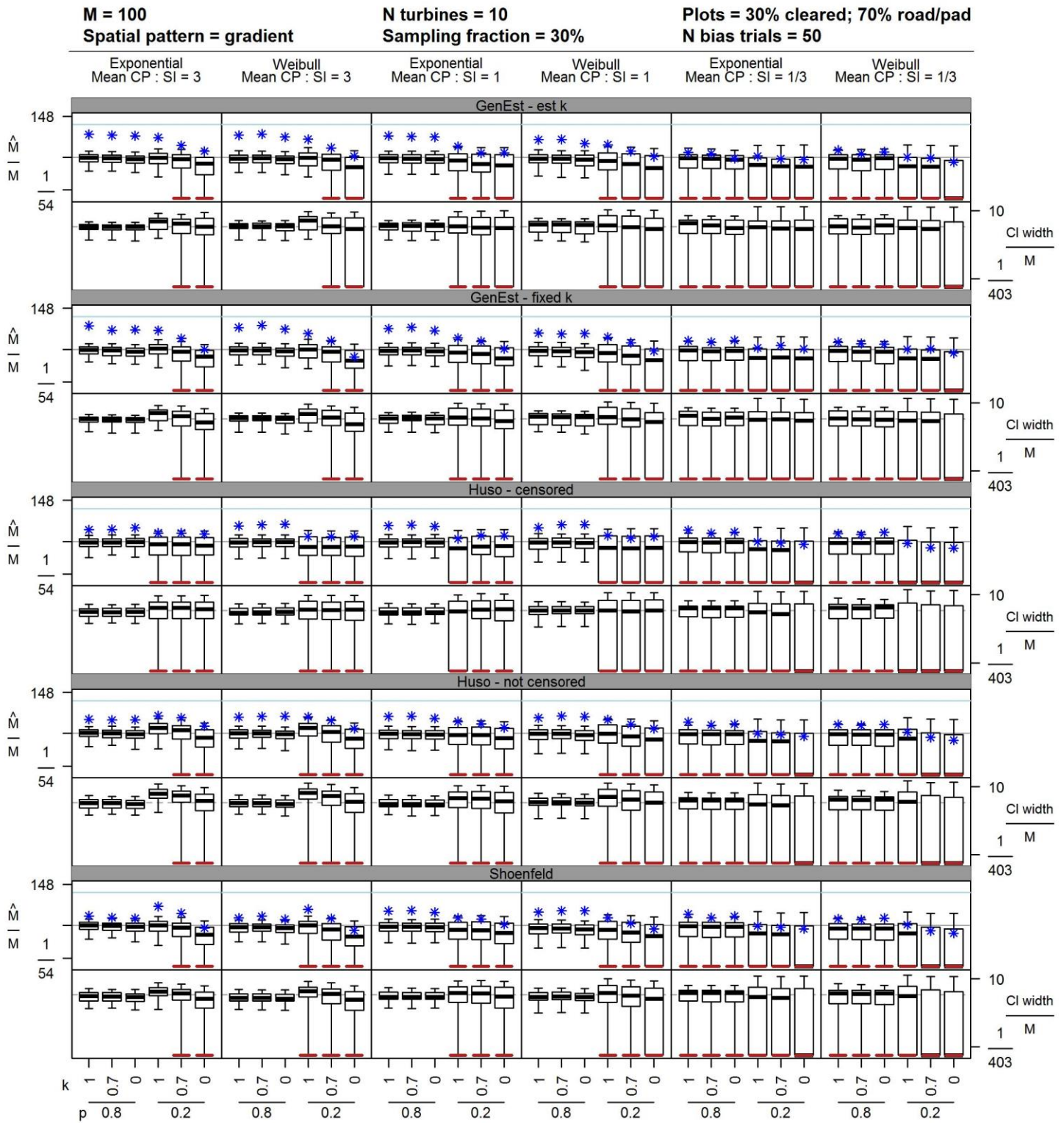


Figure A80. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

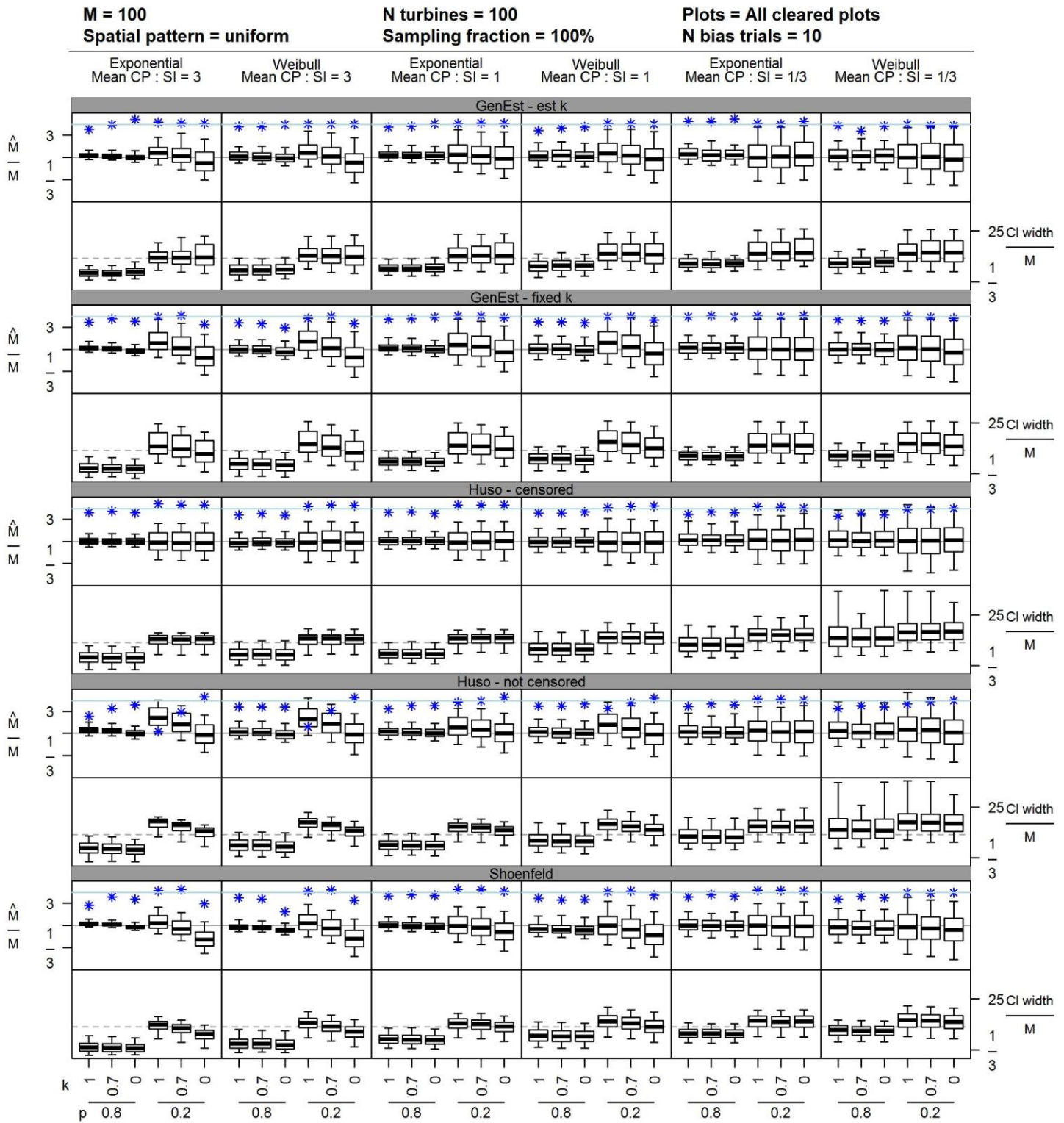


Figure A81. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

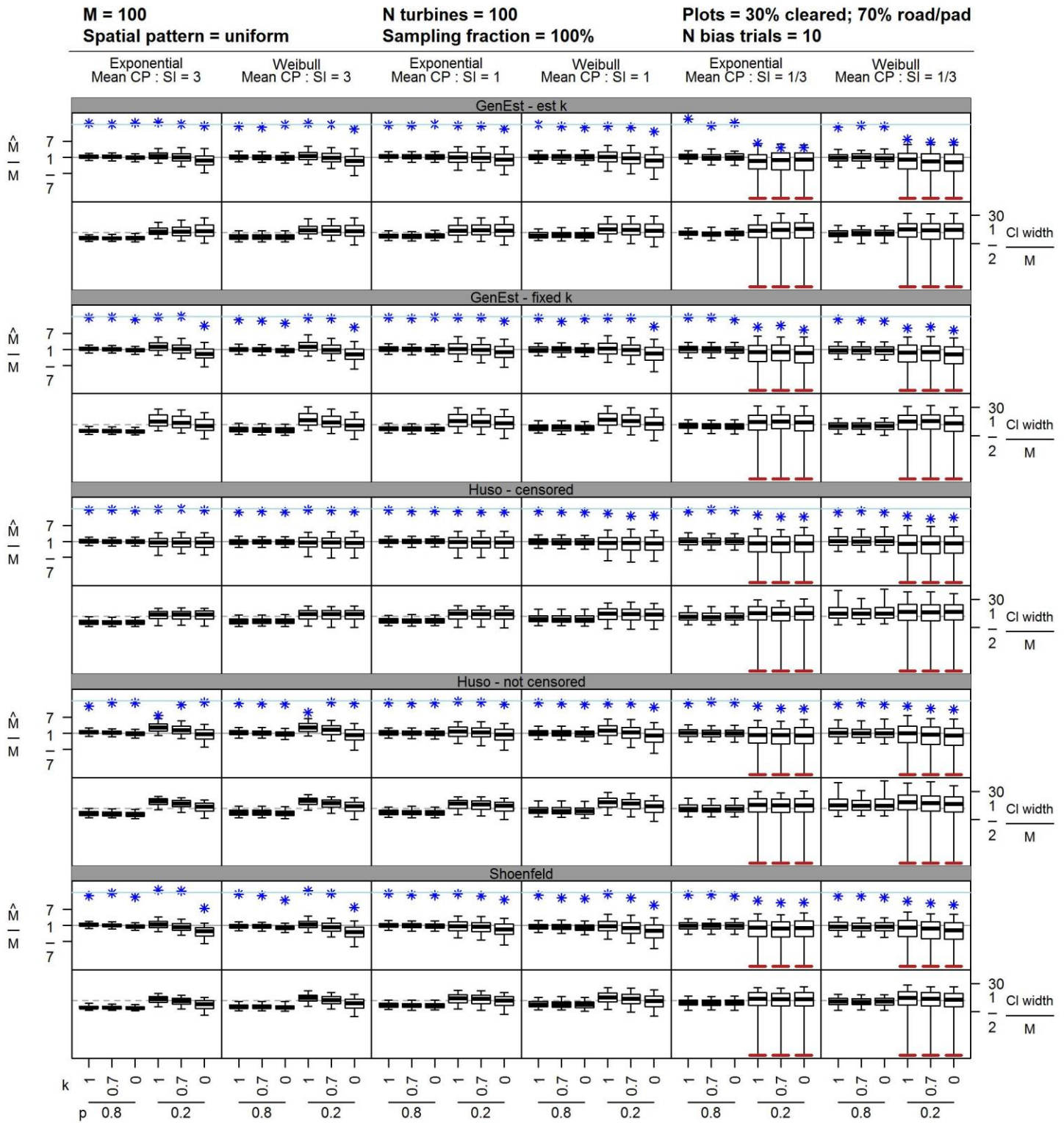


Figure A82. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

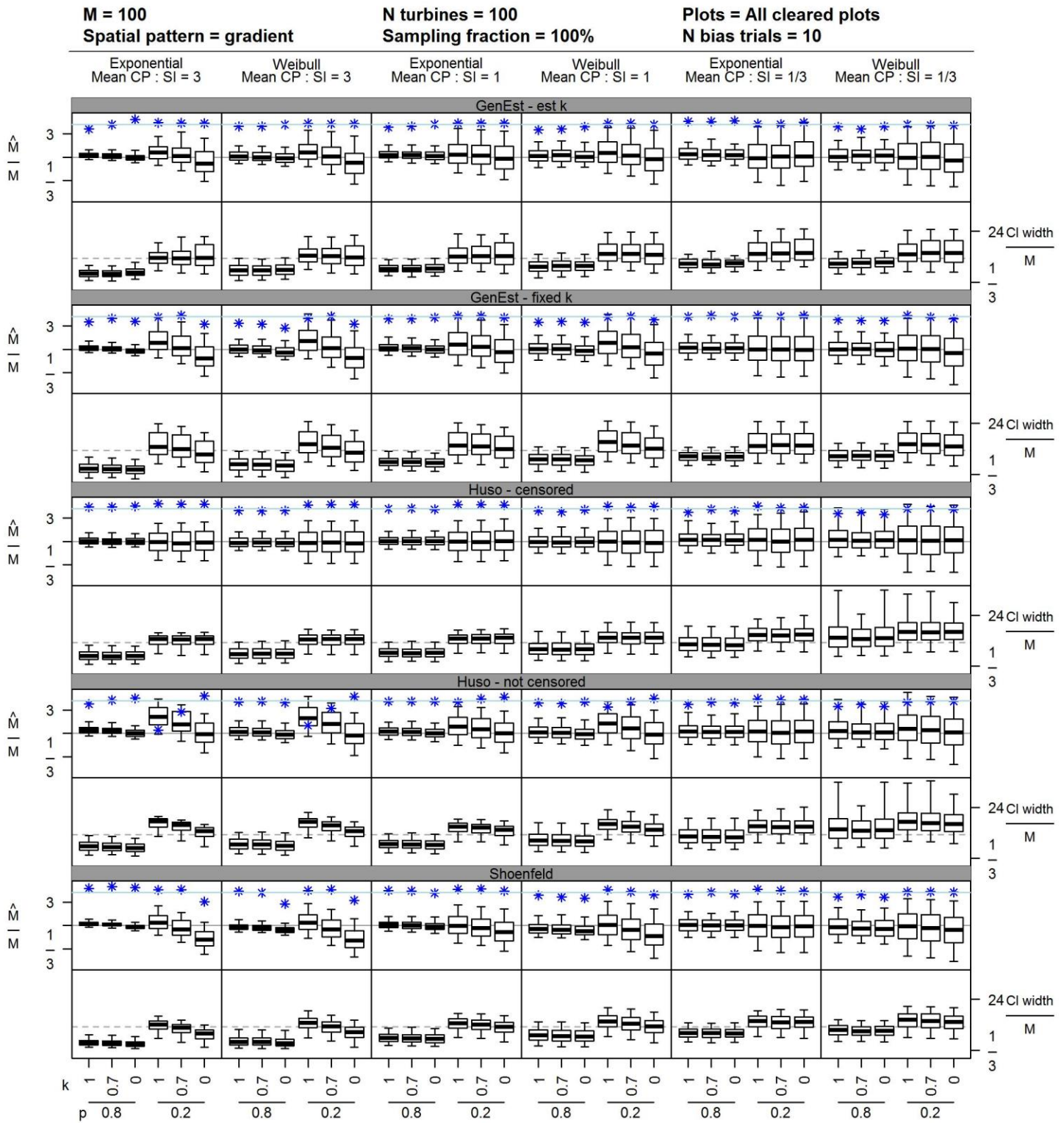


Figure A83. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

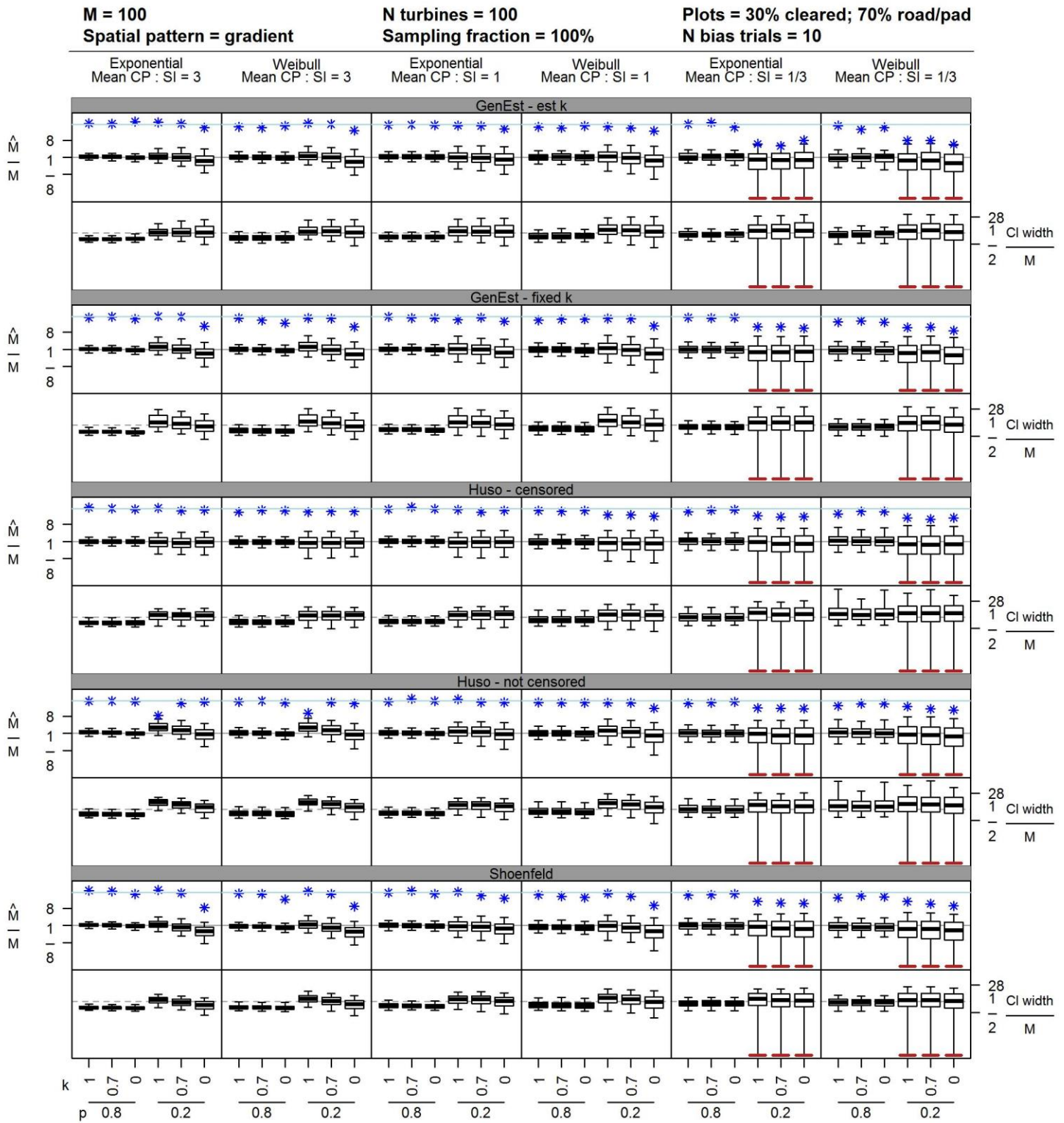


Figure A84. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

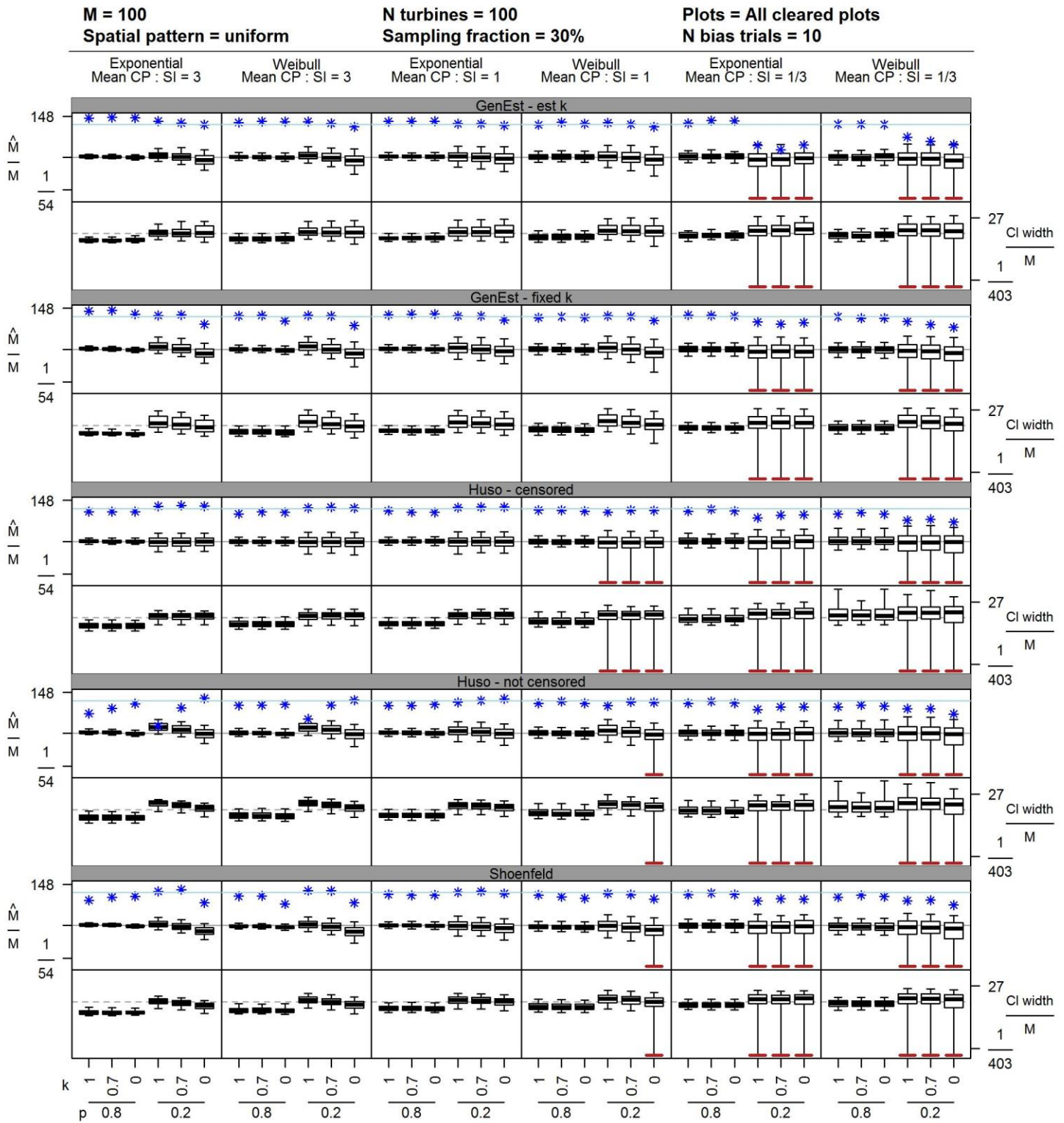


Figure A85. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

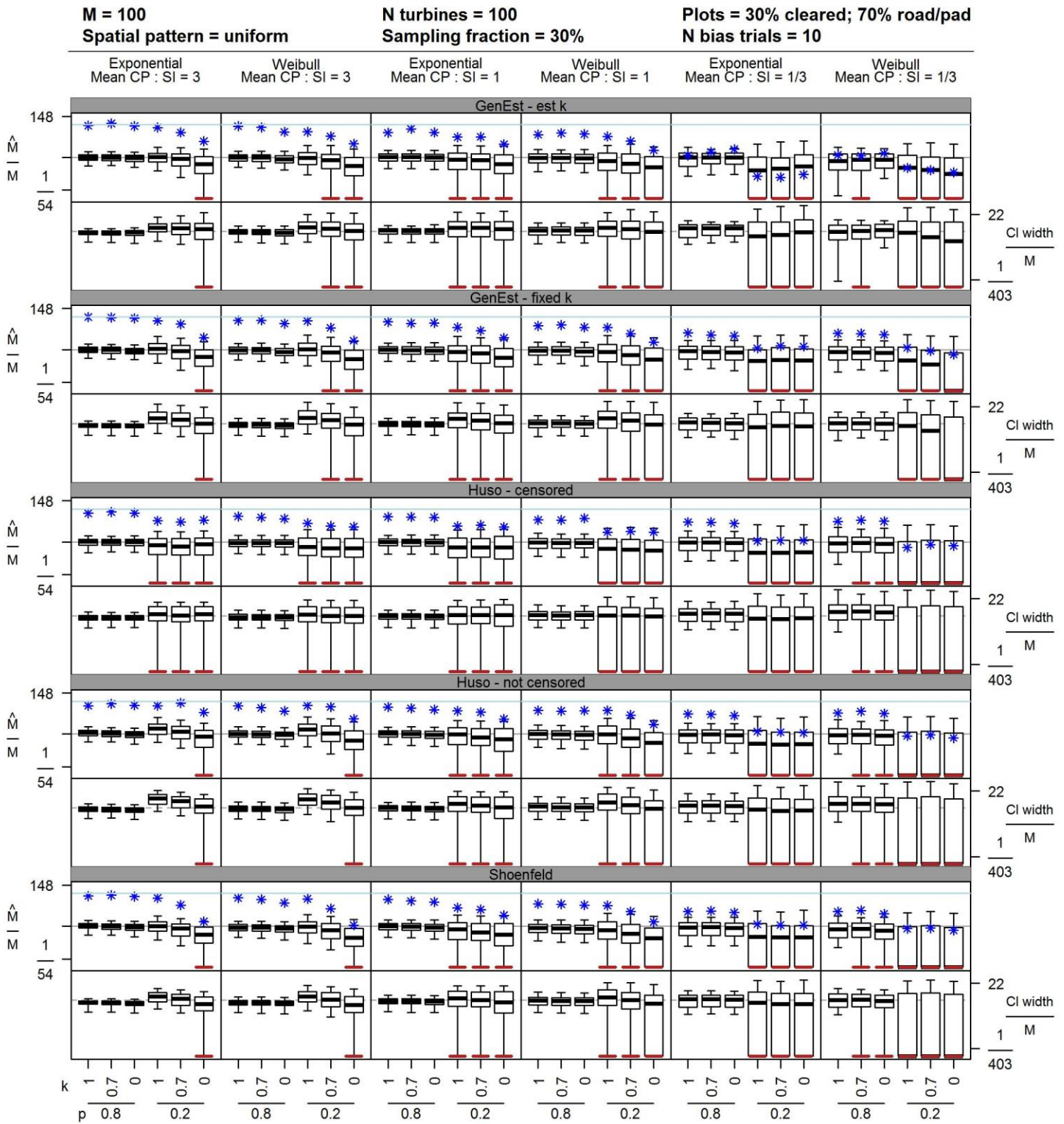


Figure A86. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

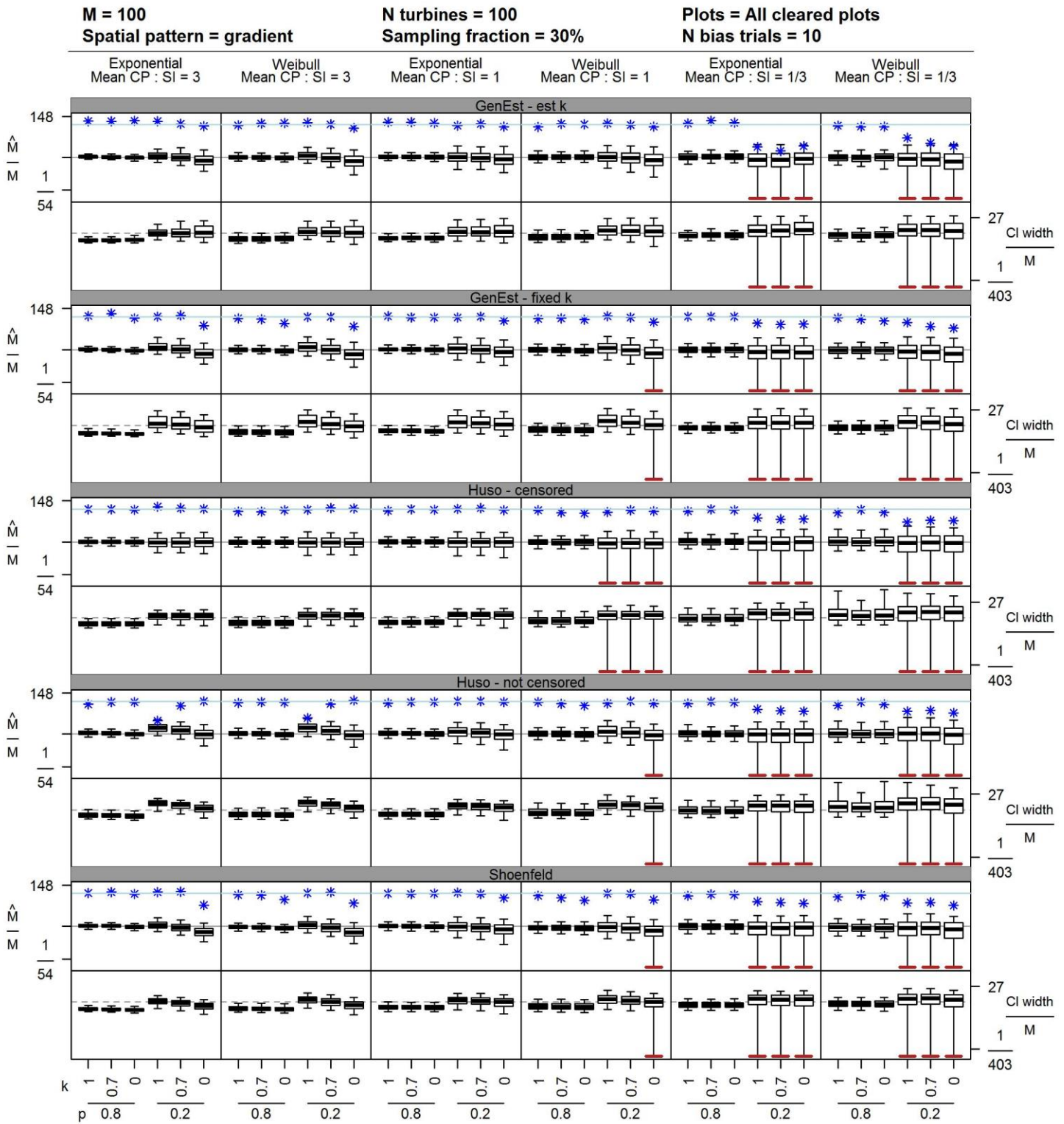


Figure A87. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

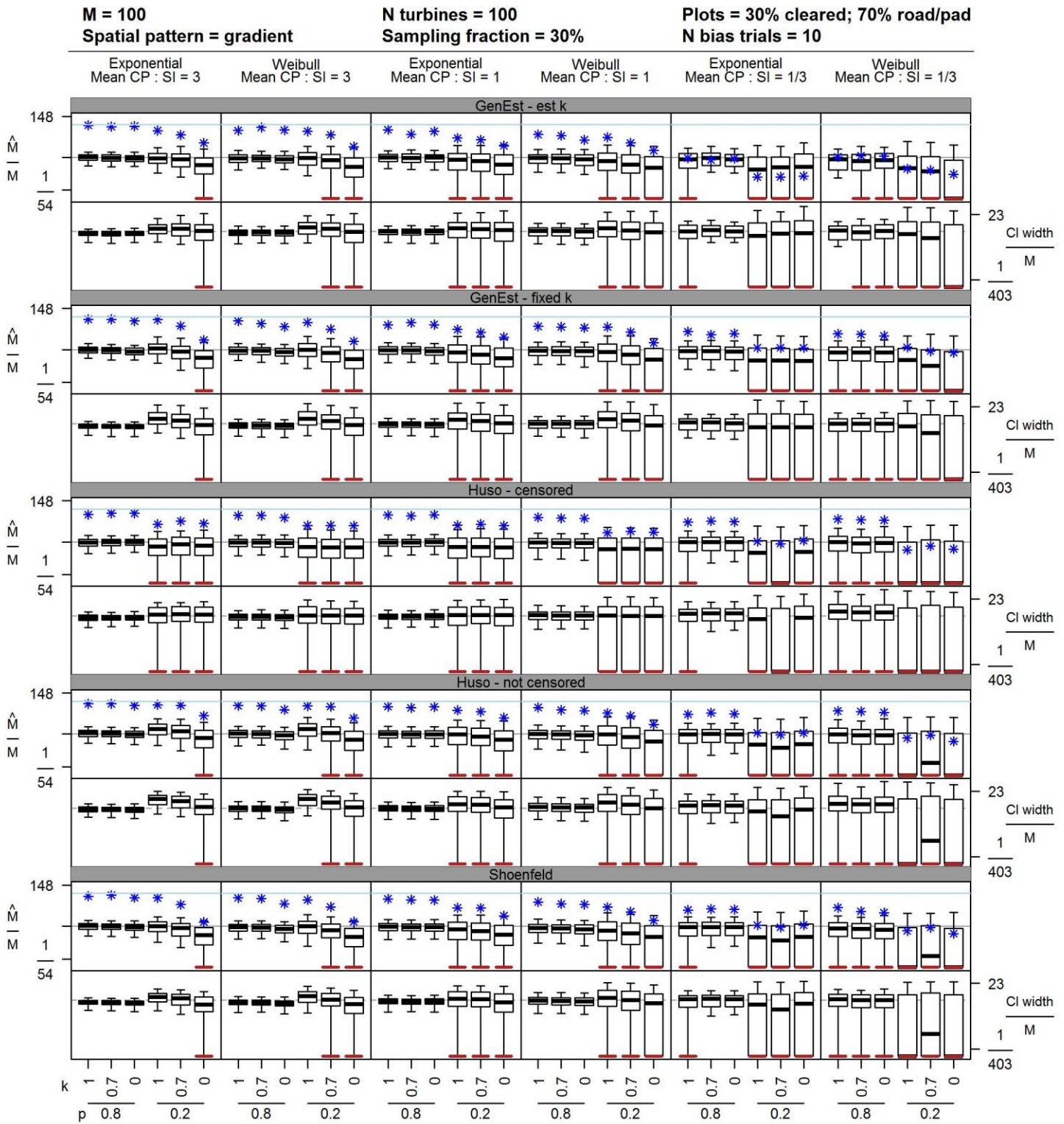


Figure A88. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

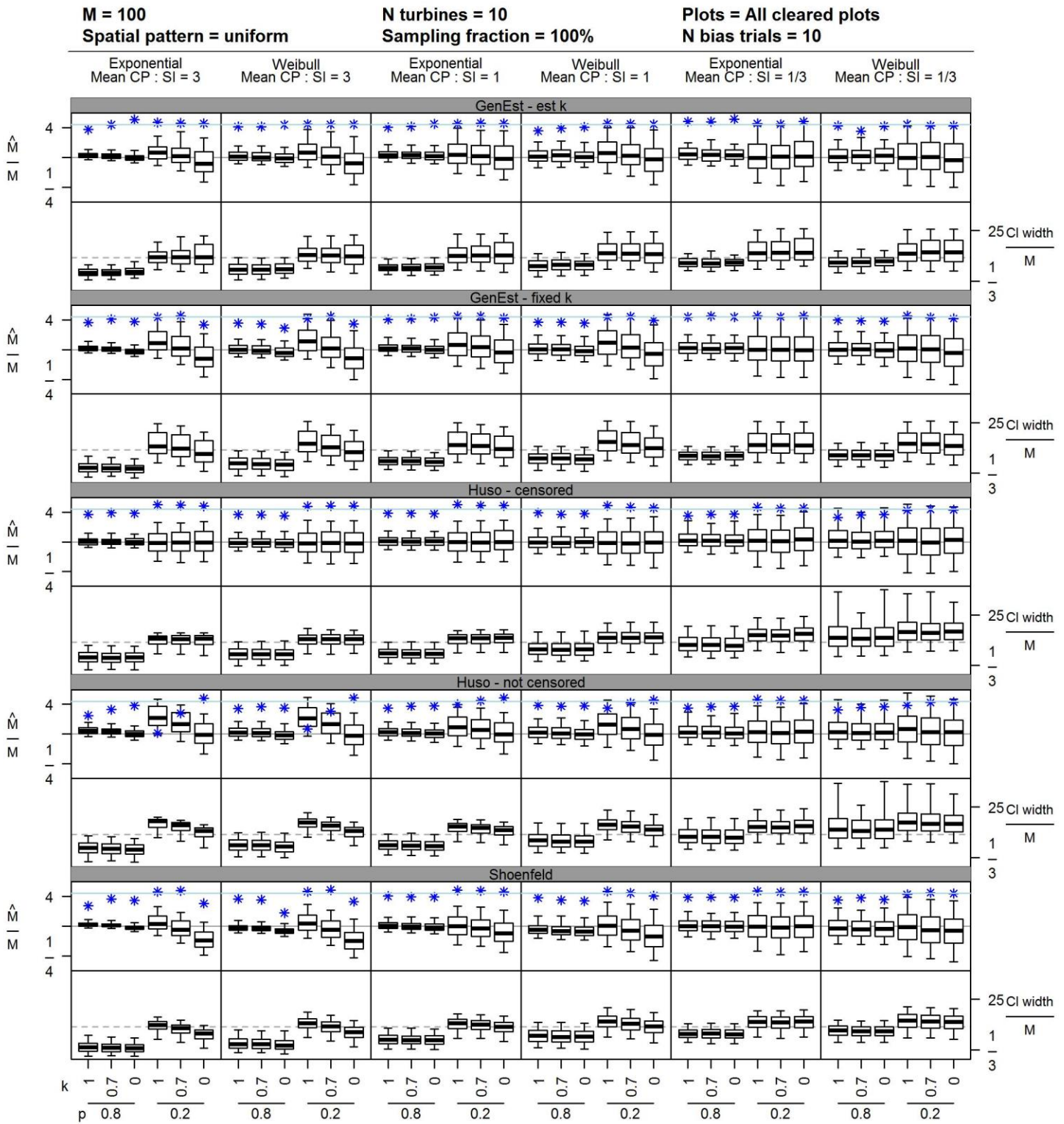


Figure A89. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

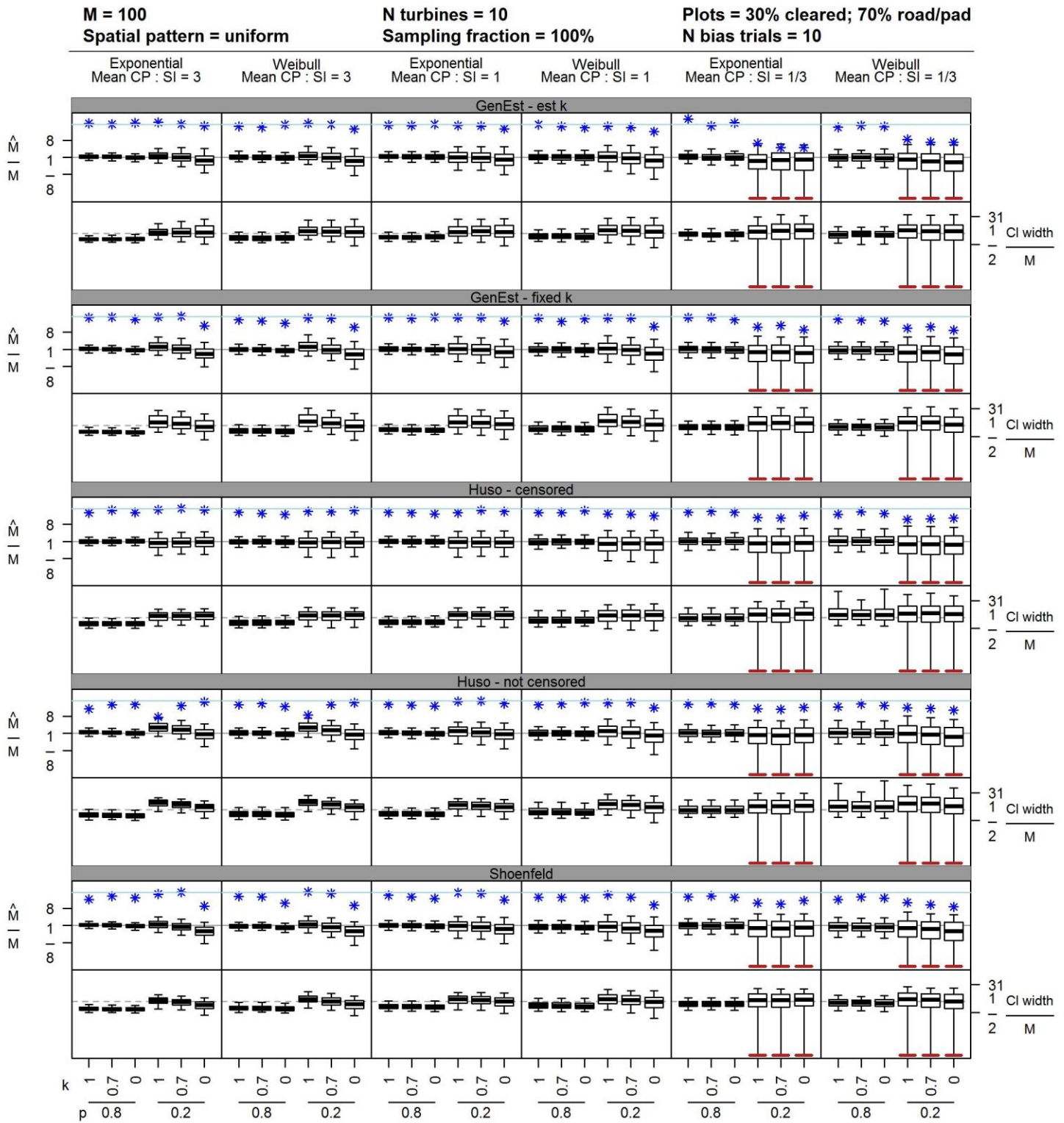


Figure A90. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

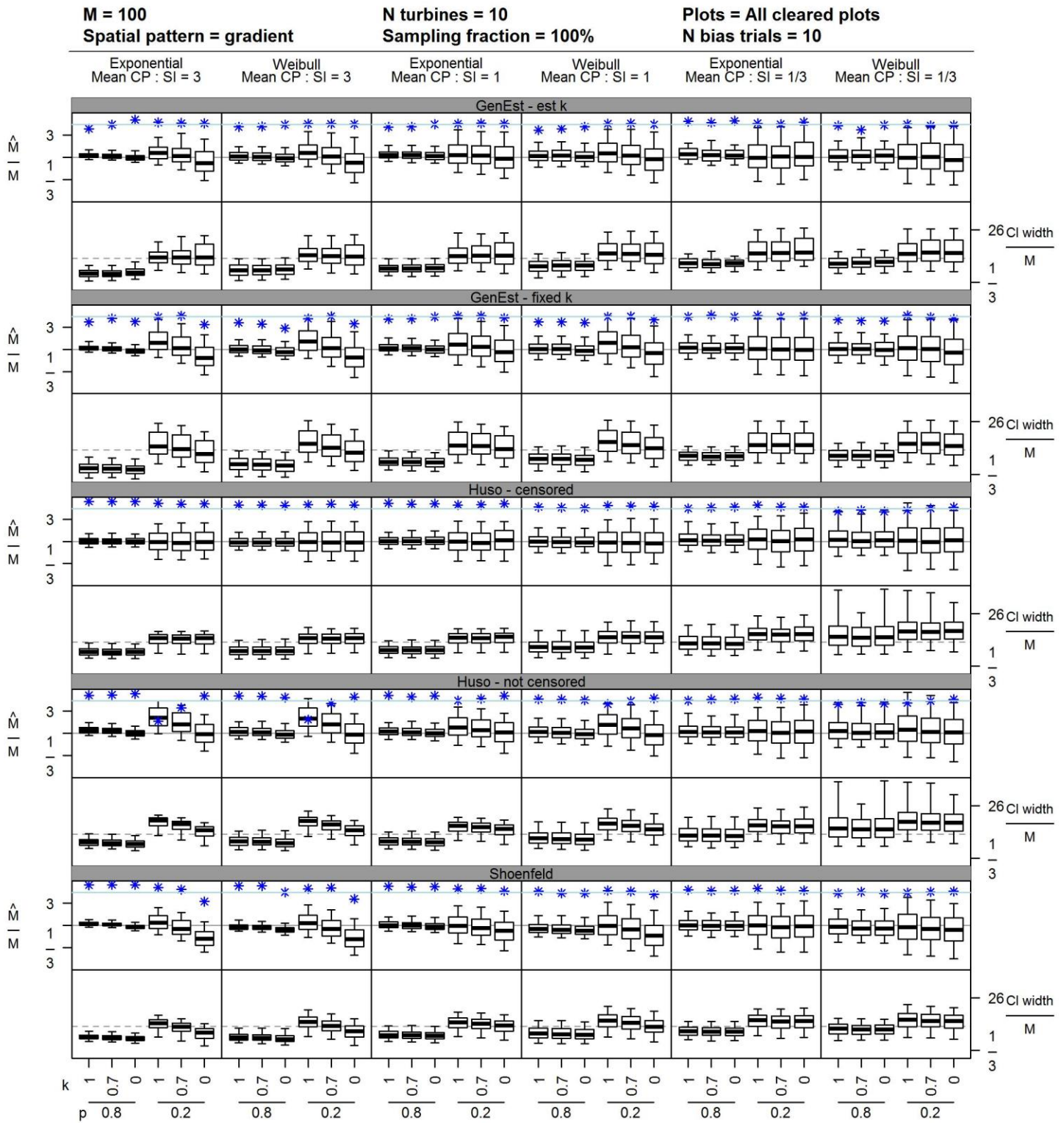


Figure A91. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

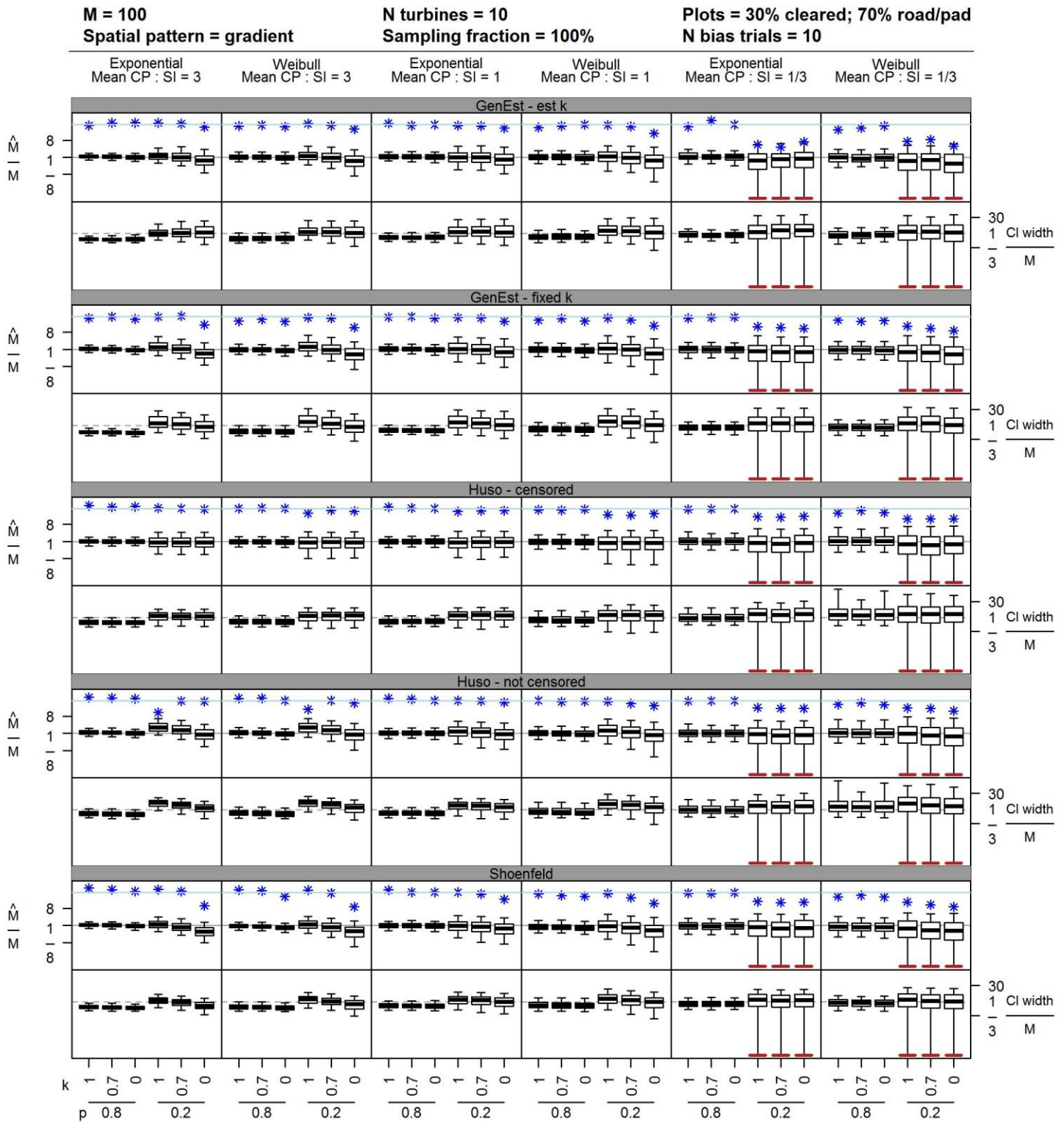


Figure A92. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

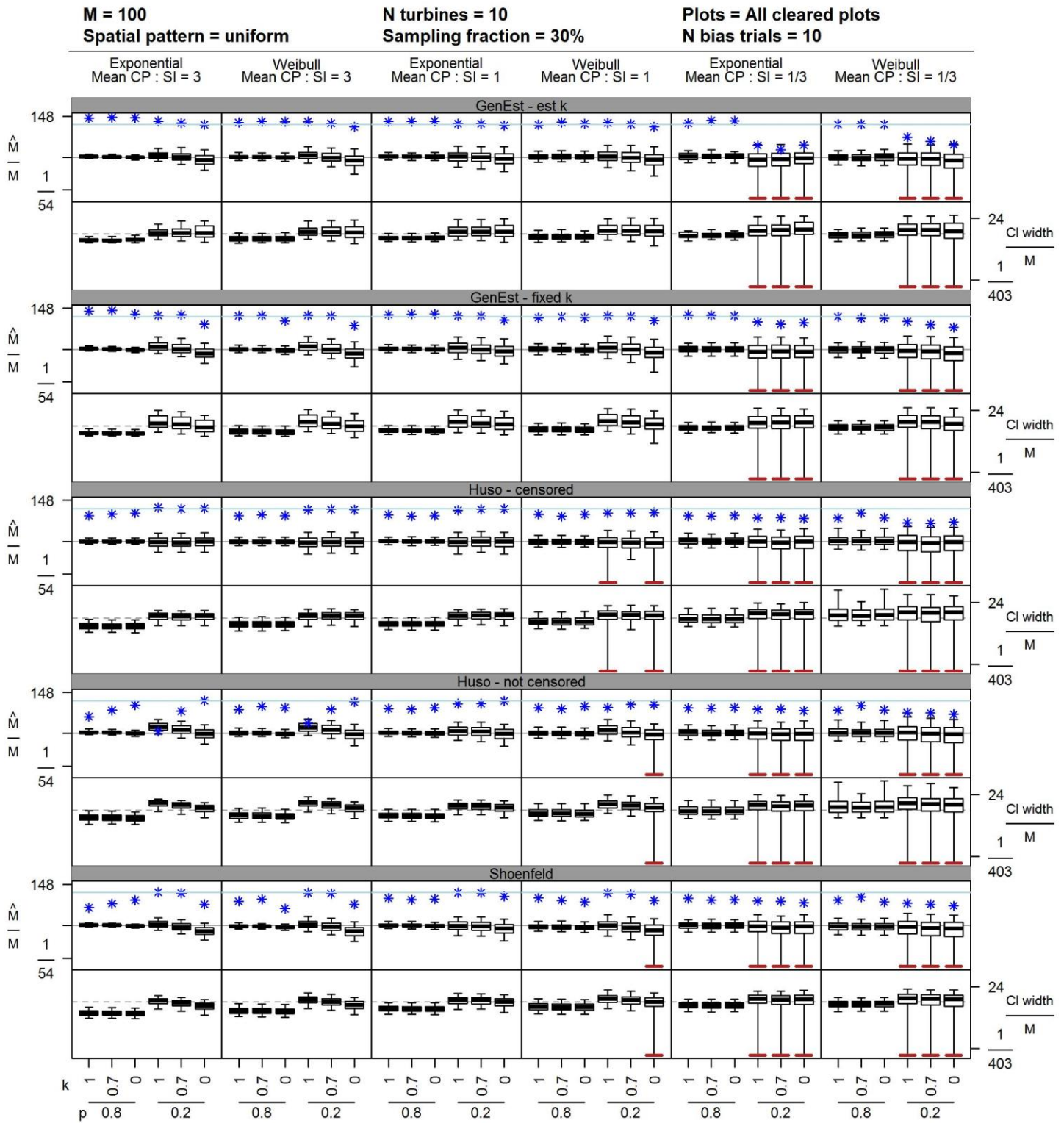


Figure A93. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

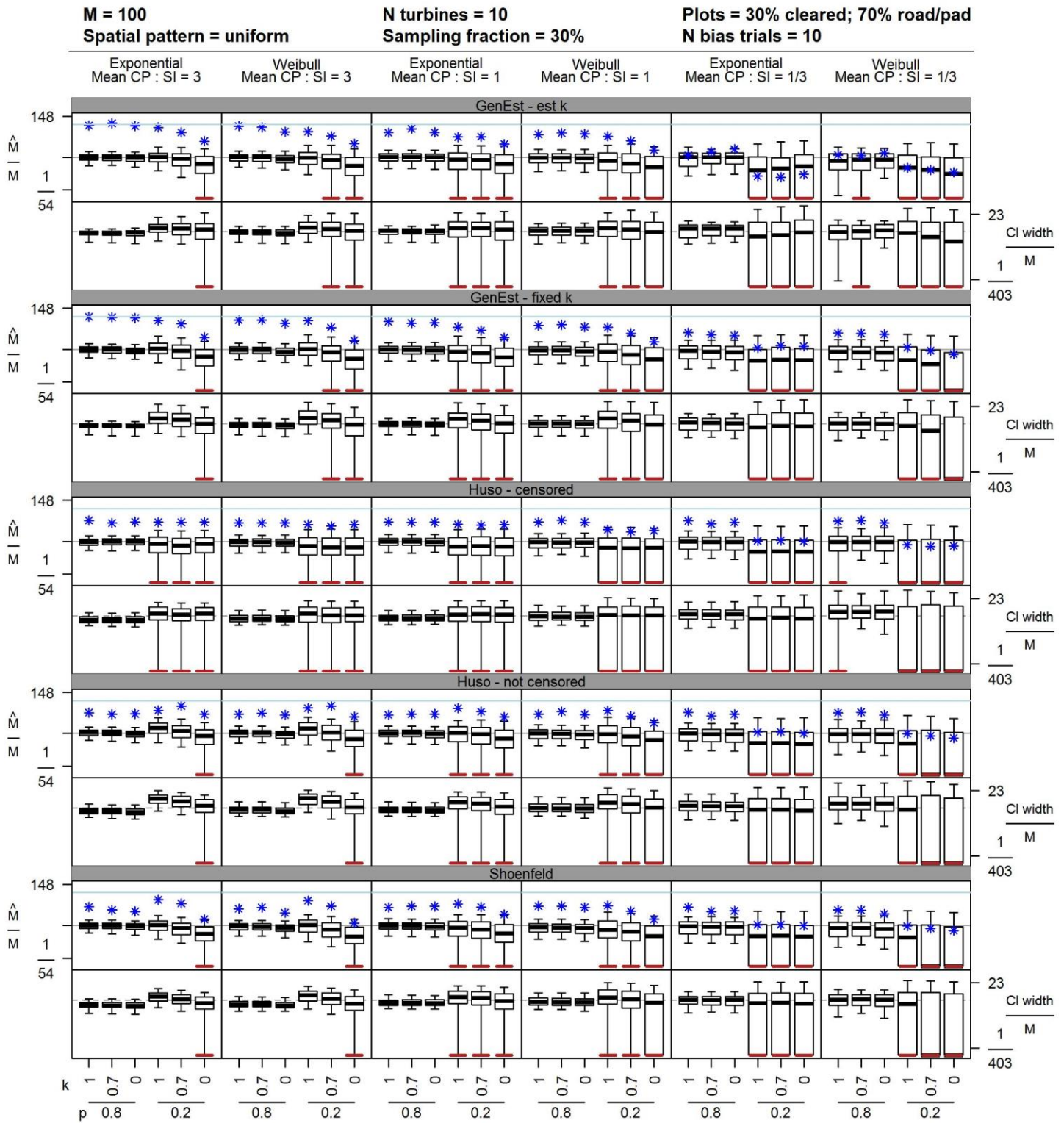


Figure A94. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

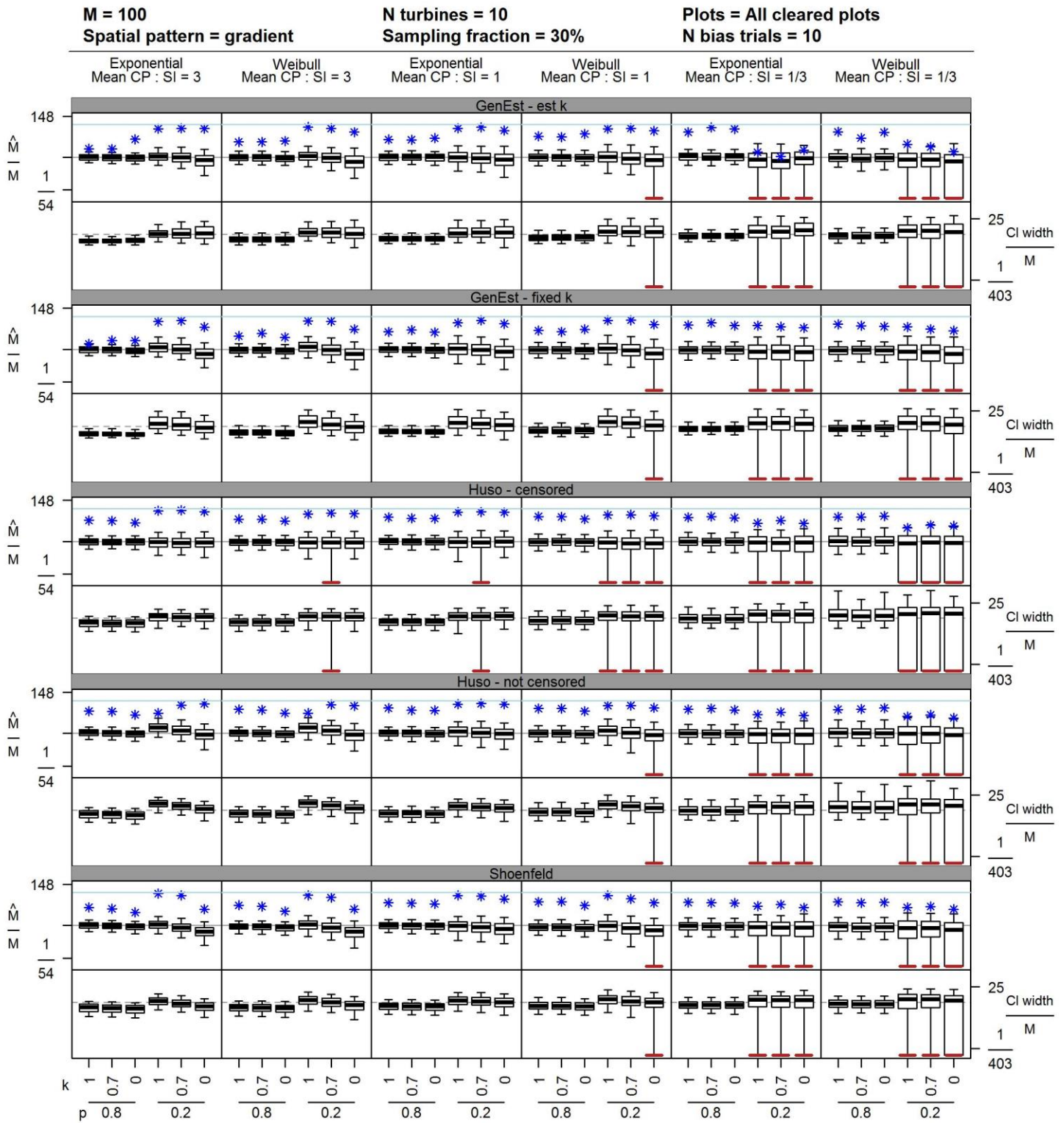


Figure A95. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

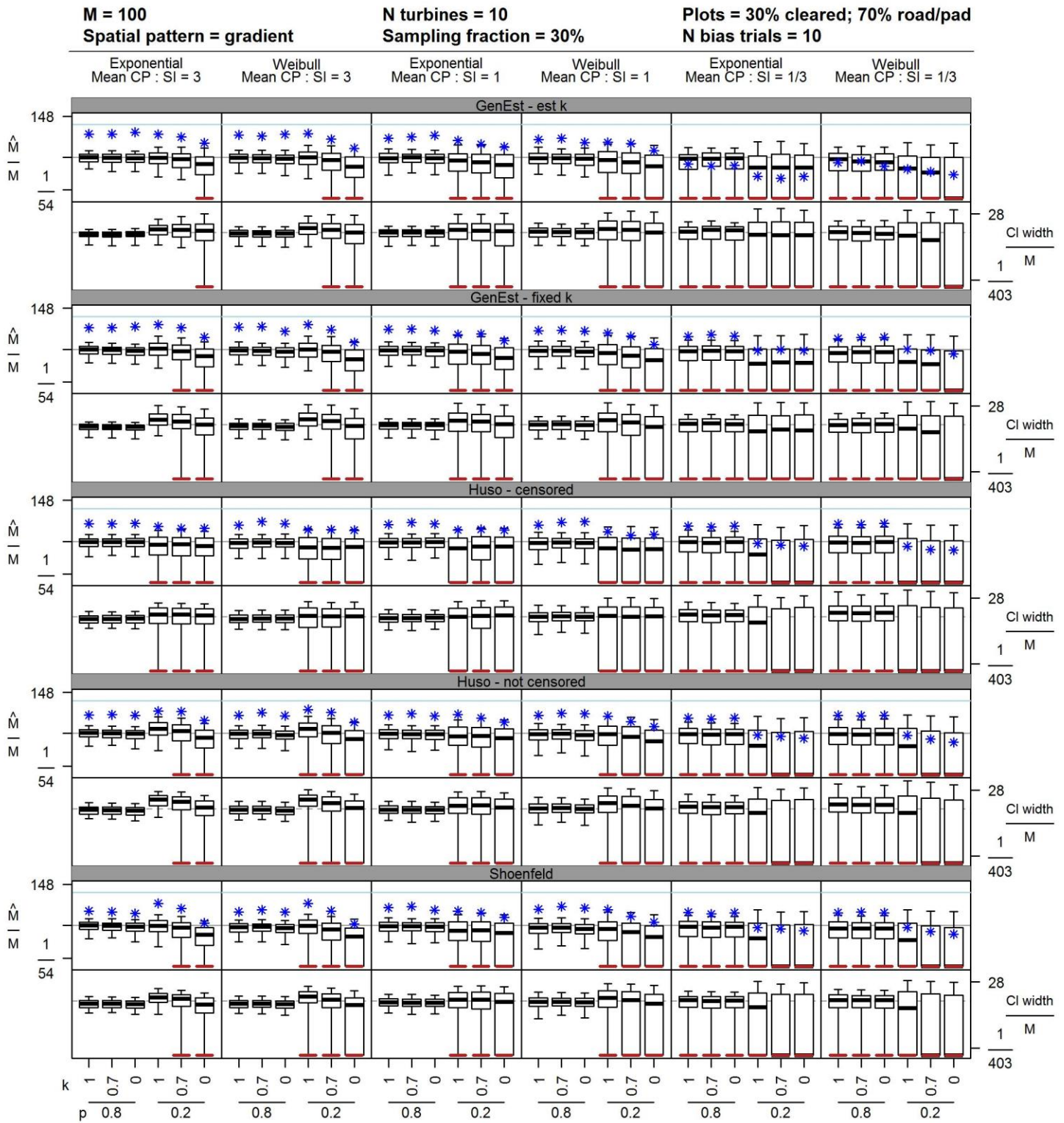


Figure A96. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 100%**

**Plots = All cleared plots**  
**N bias trials = Inf**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A97. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 100%**

**Plots = 30% cleared; 70% road/pad**  
**N bias trials = Inf**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A98. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*



Performance of the GenEst Statistical Mortality Estimator

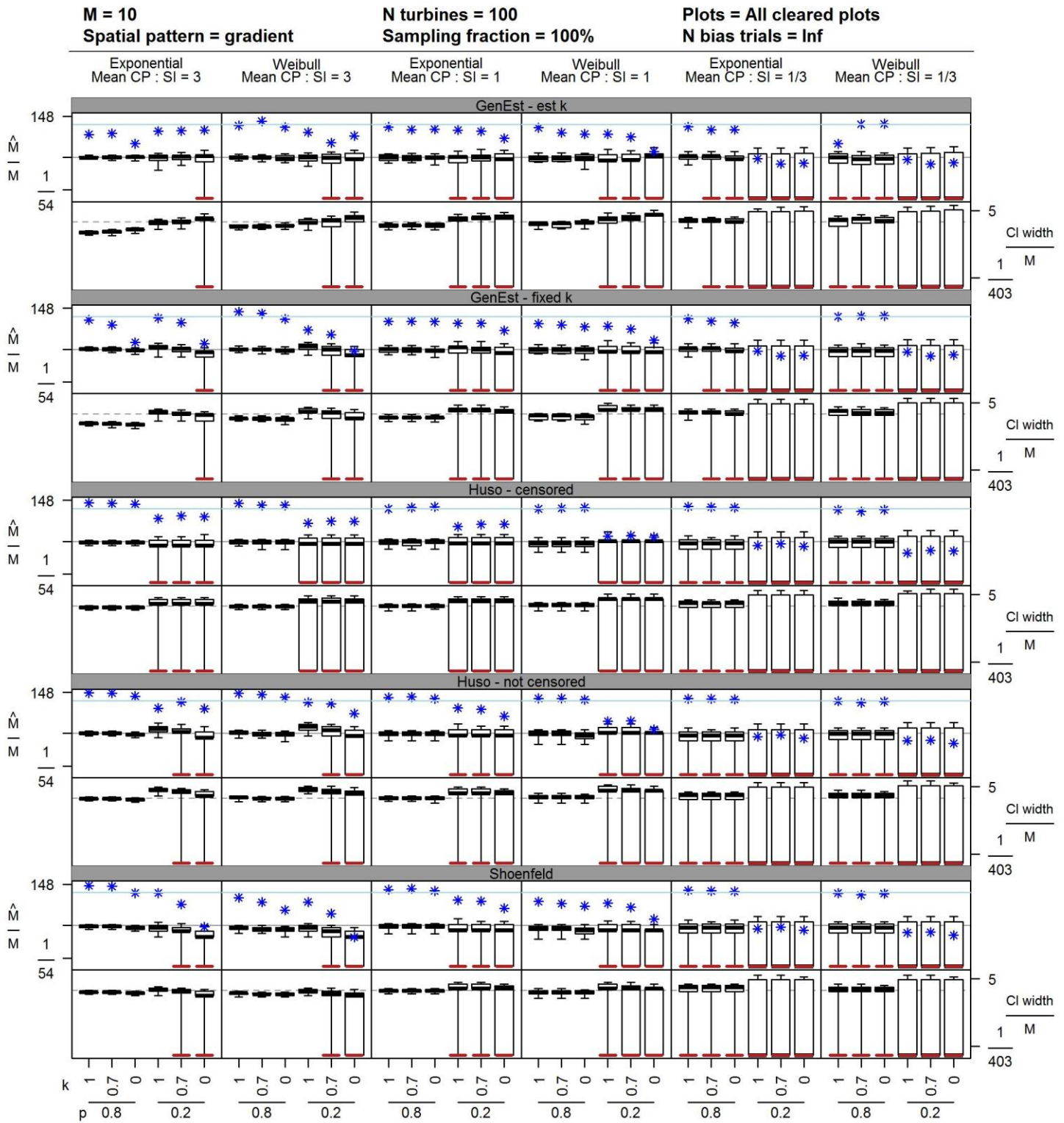


Figure A99. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

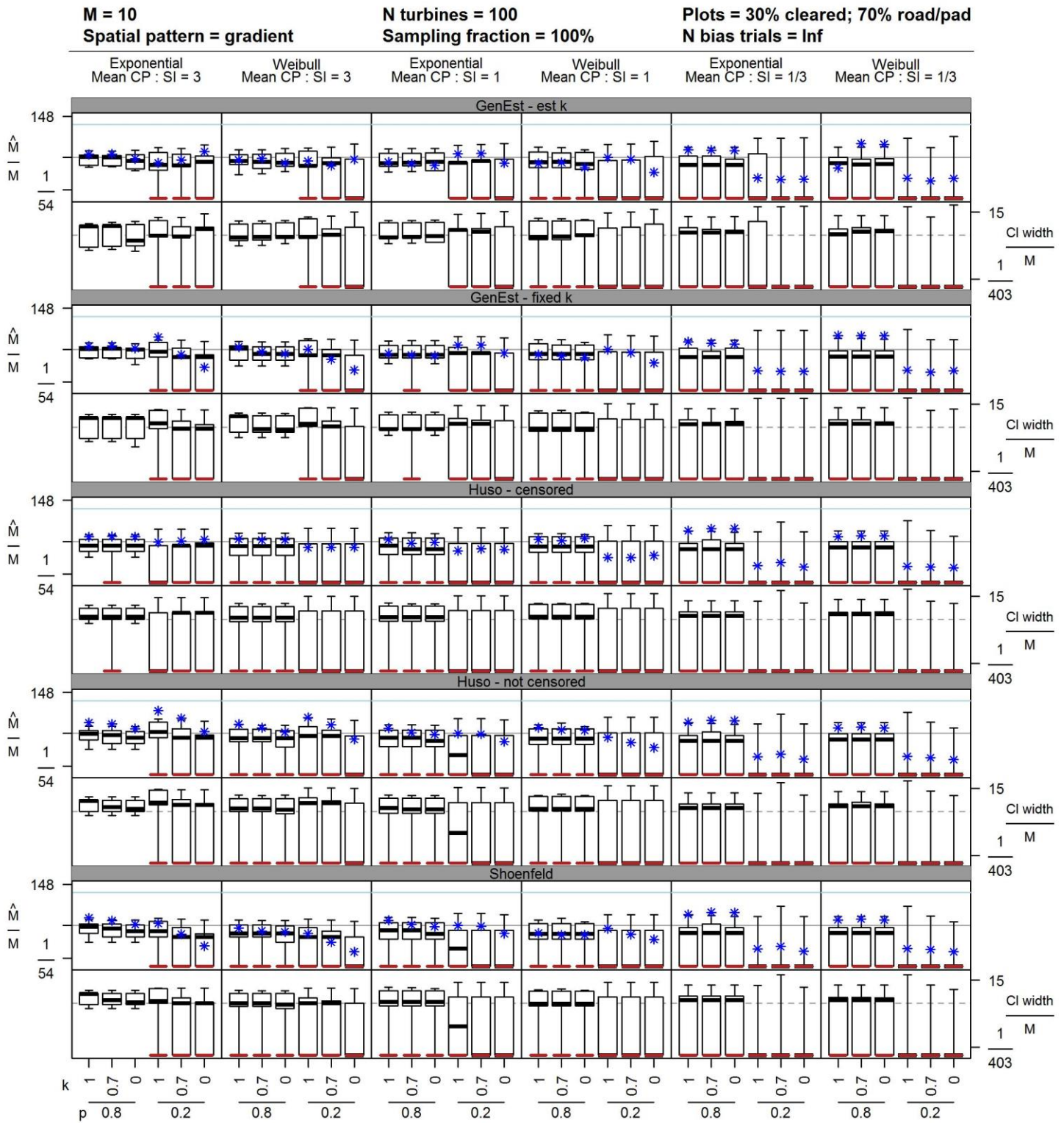


Figure A100. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 30%**

**Plots = All cleared plots**  
**N bias trials = Inf**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A101. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 30%**

**Plots = 30% cleared; 70% road/pad**  
**N bias trials = Inf**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A102. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

Performance of the GenEst Statistical Mortality Estimator

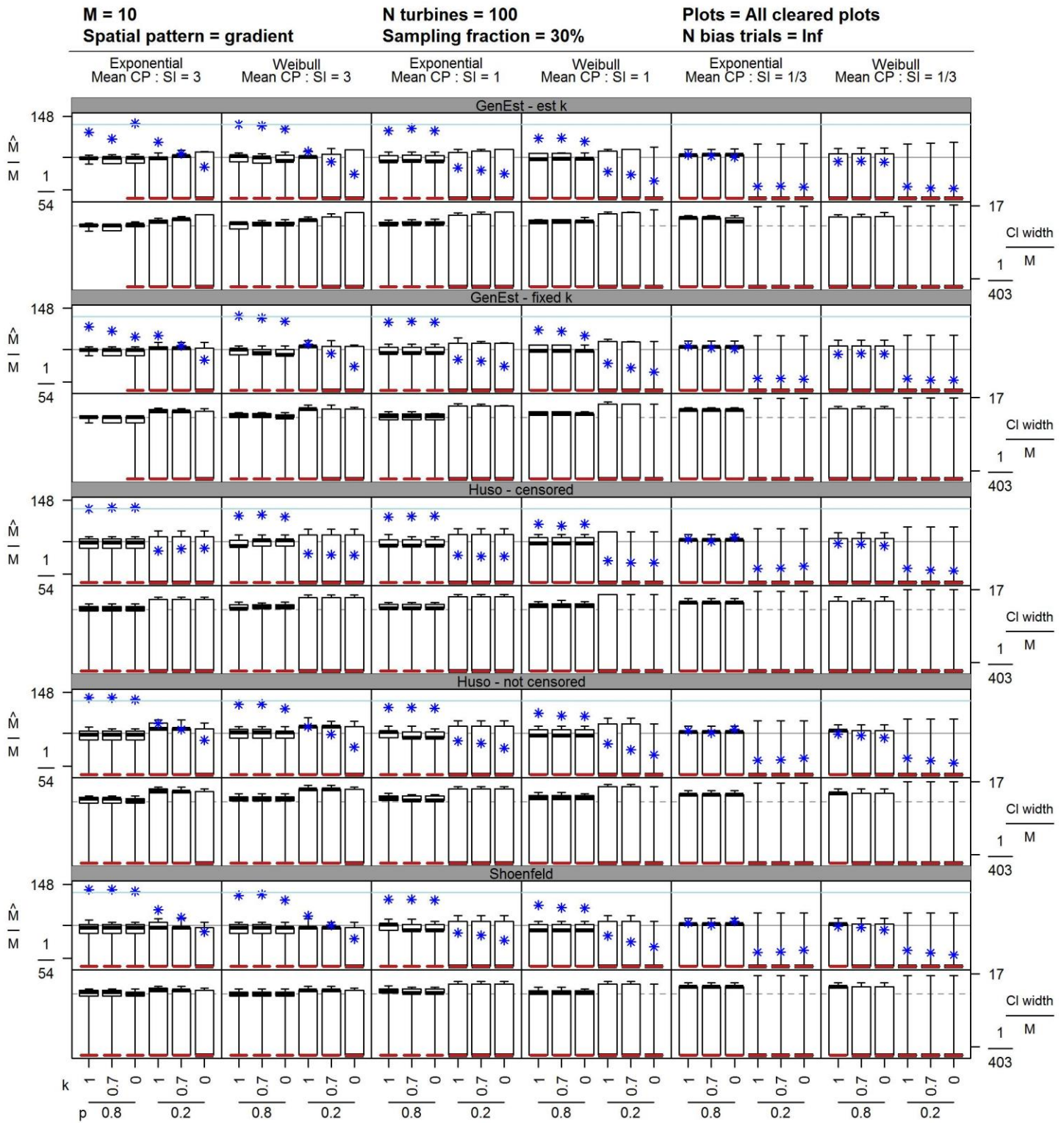


Figure A103. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

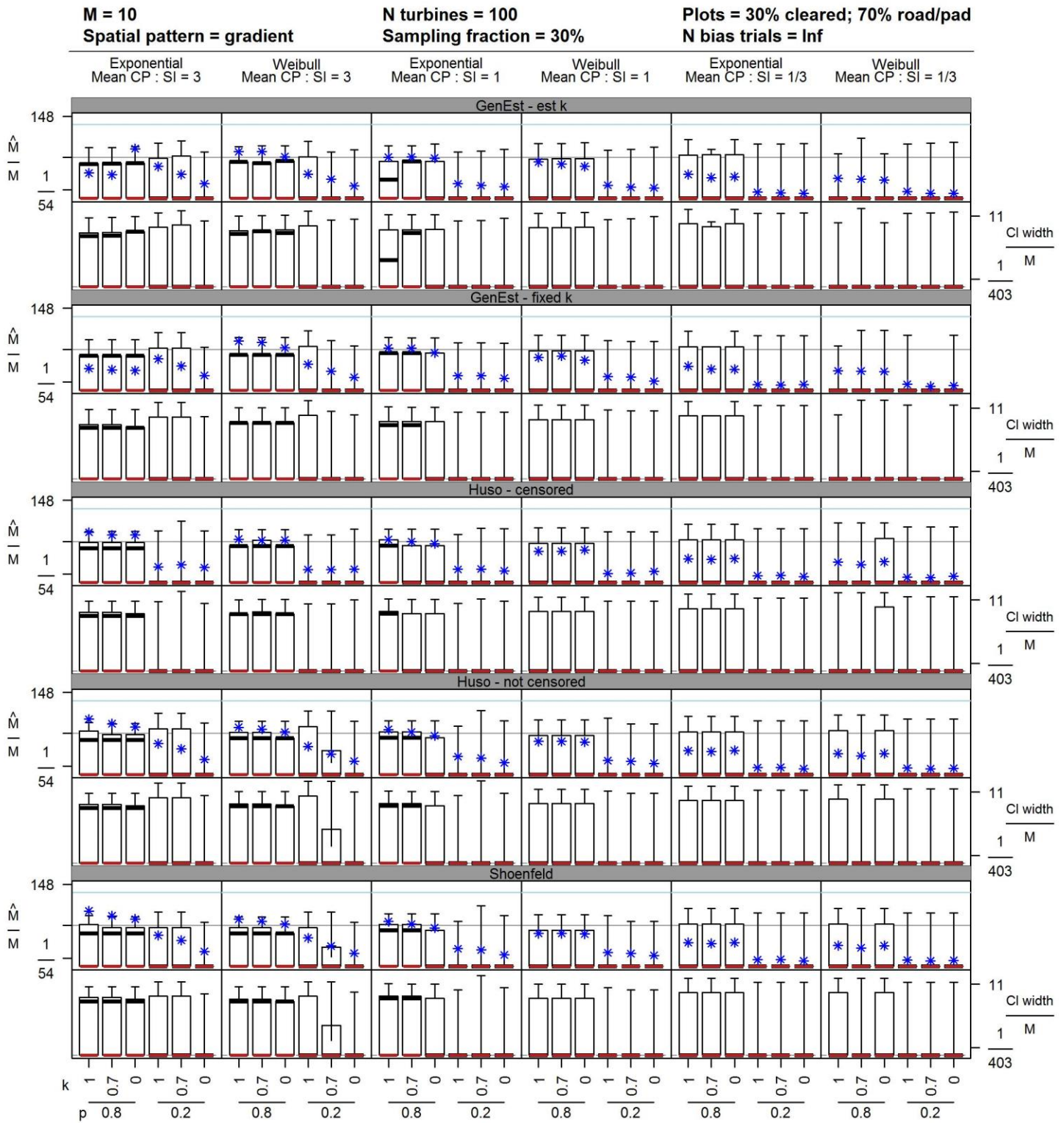


Figure A104. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

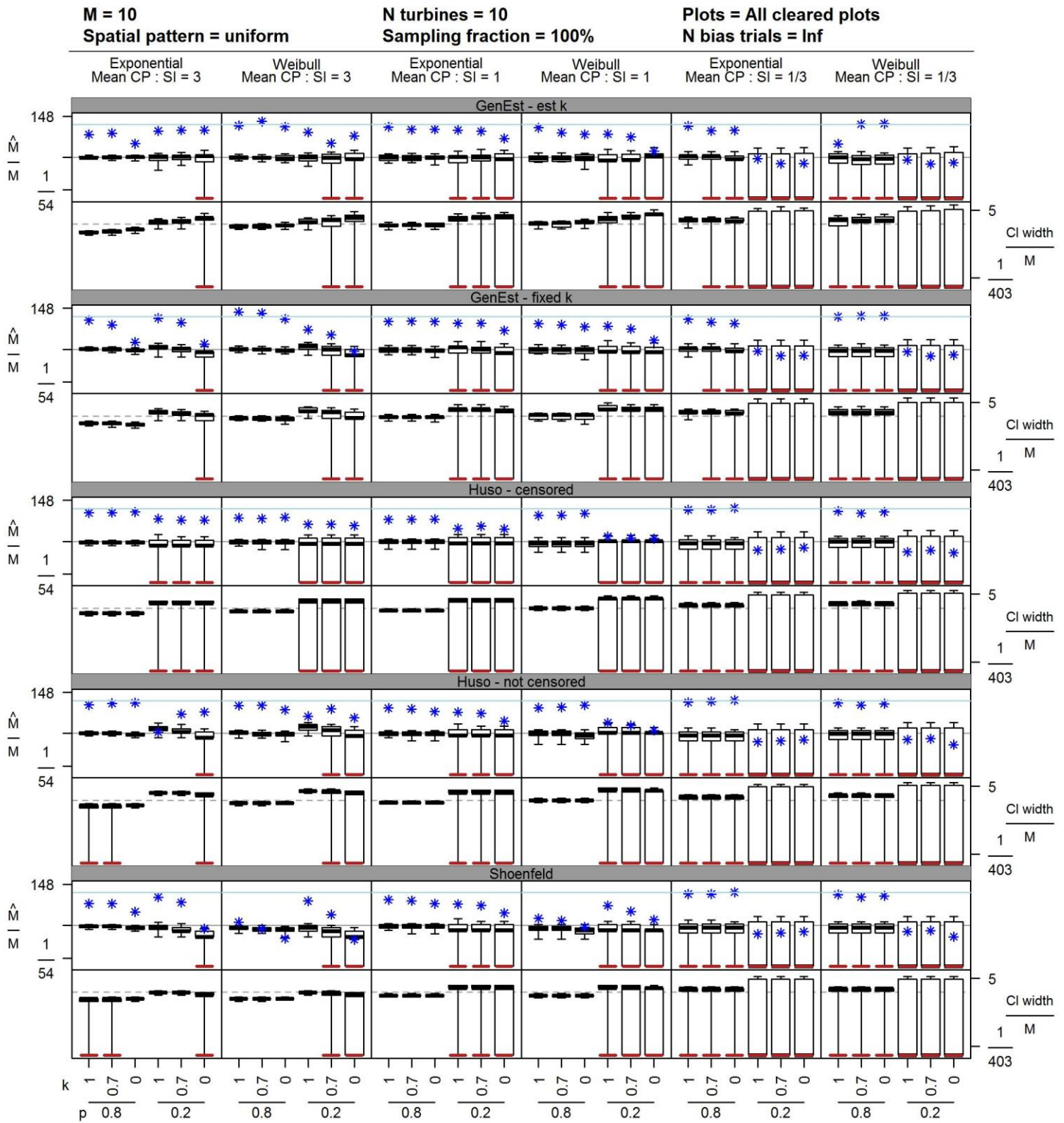


Figure A105. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

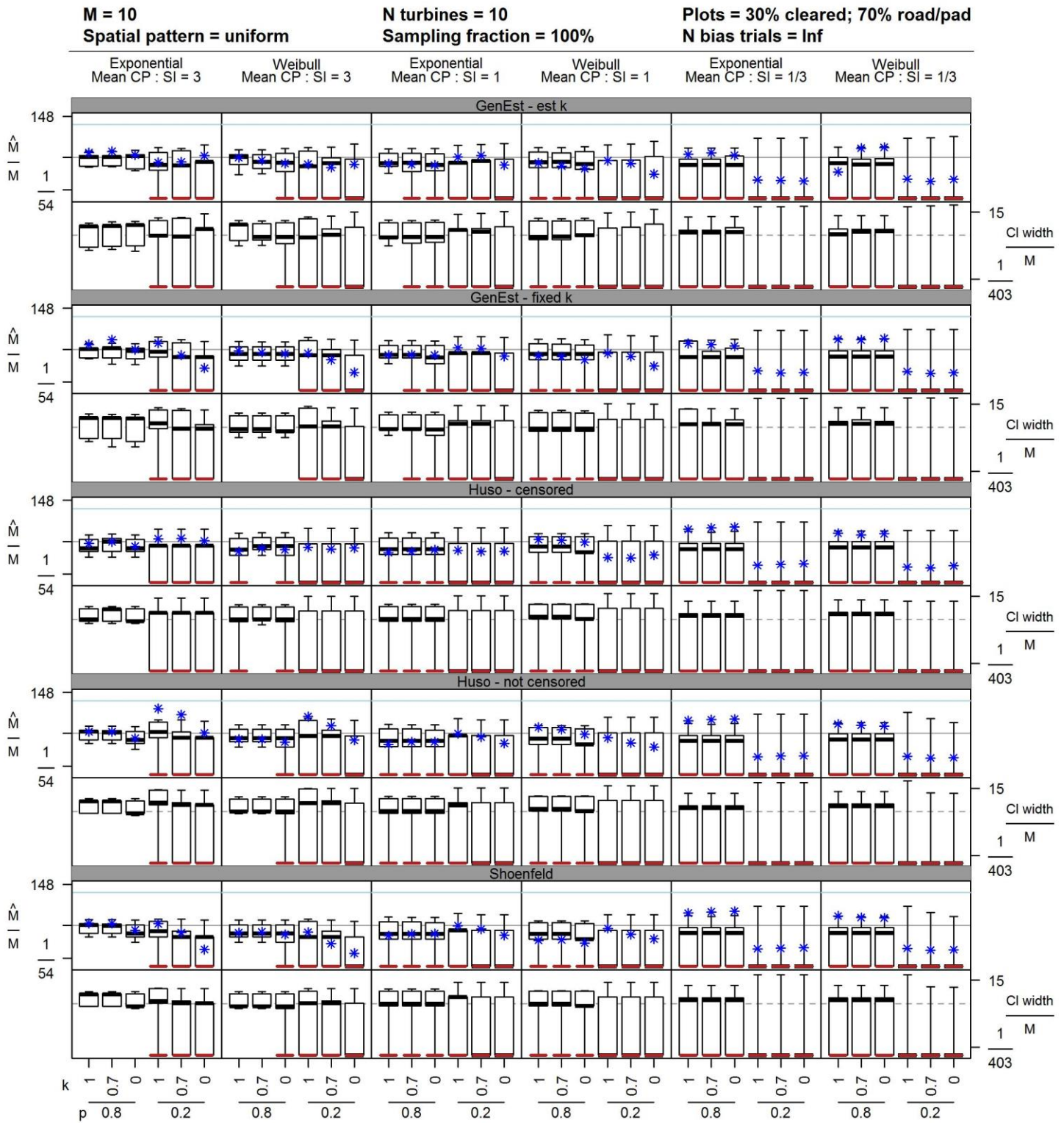


Figure A106. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

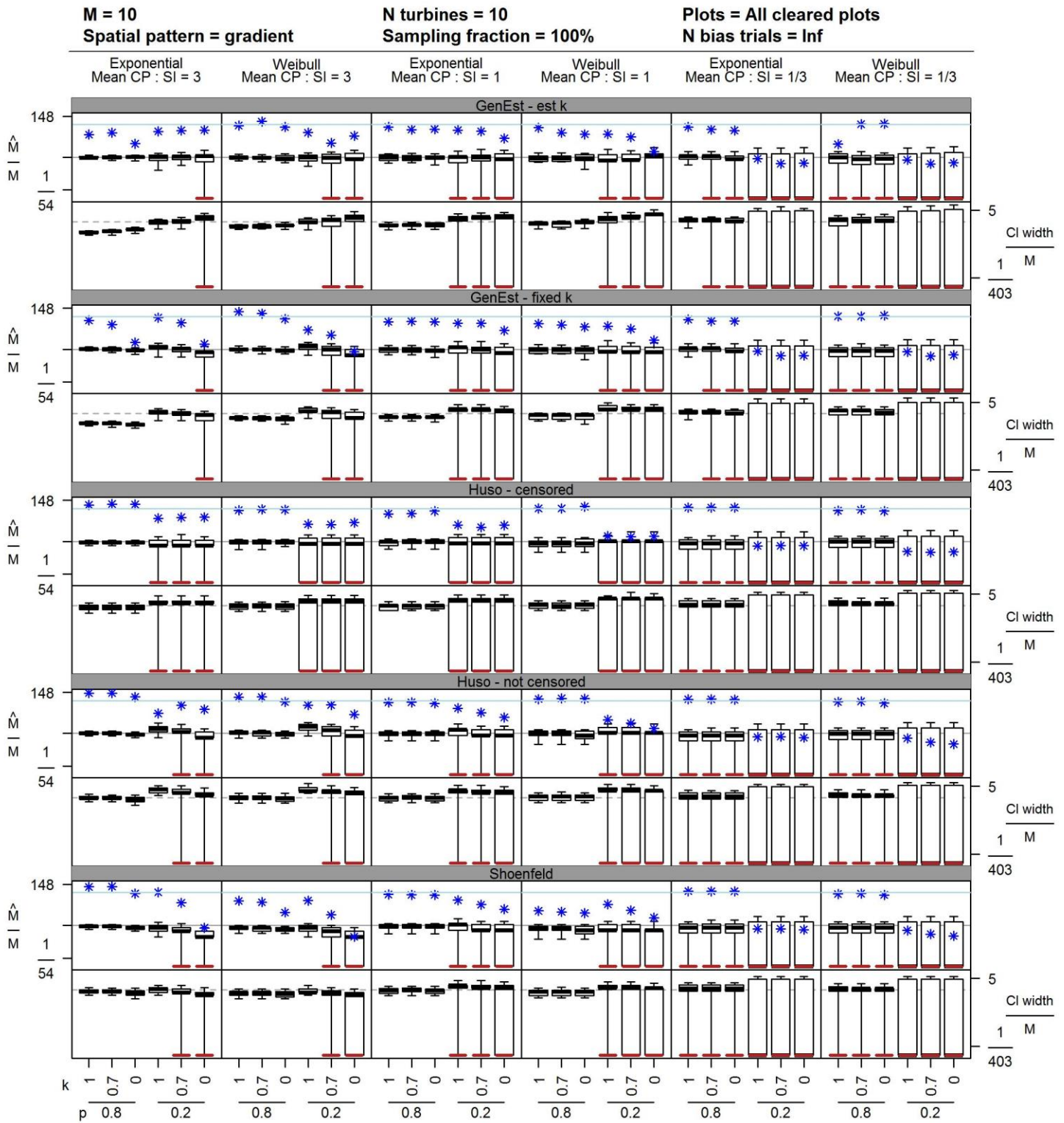


Figure A107. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

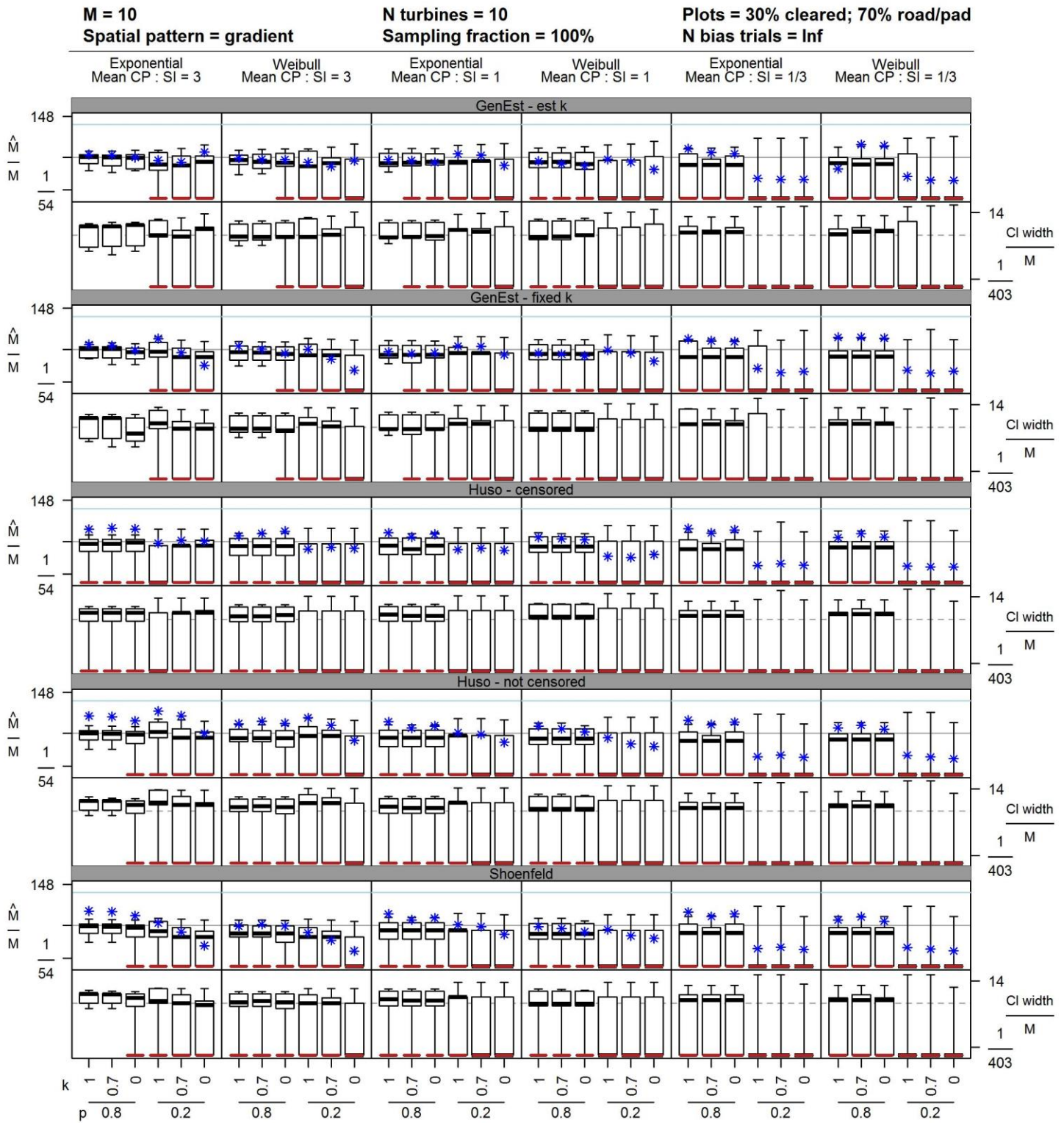


Figure A108. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

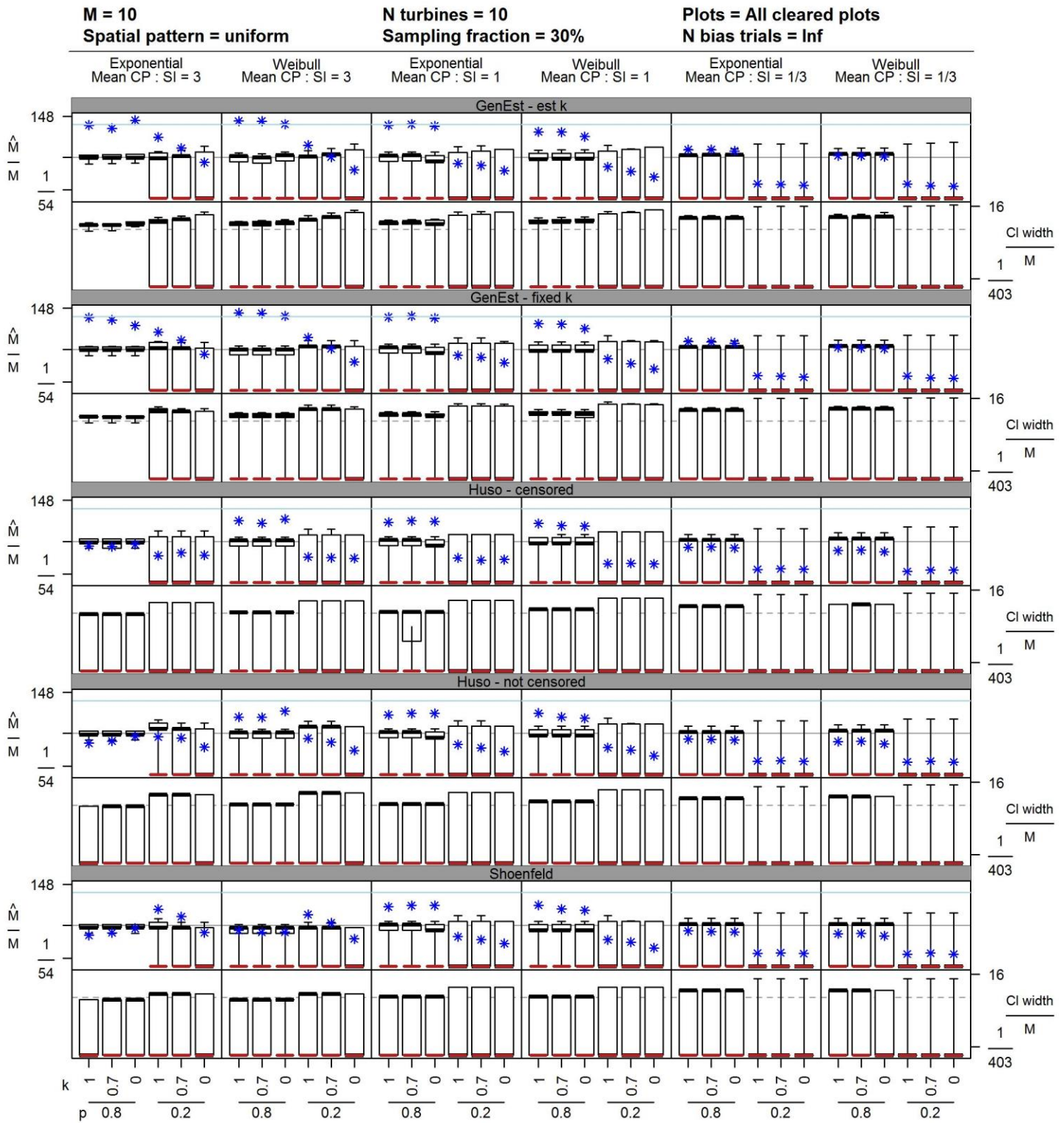


Figure A109. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

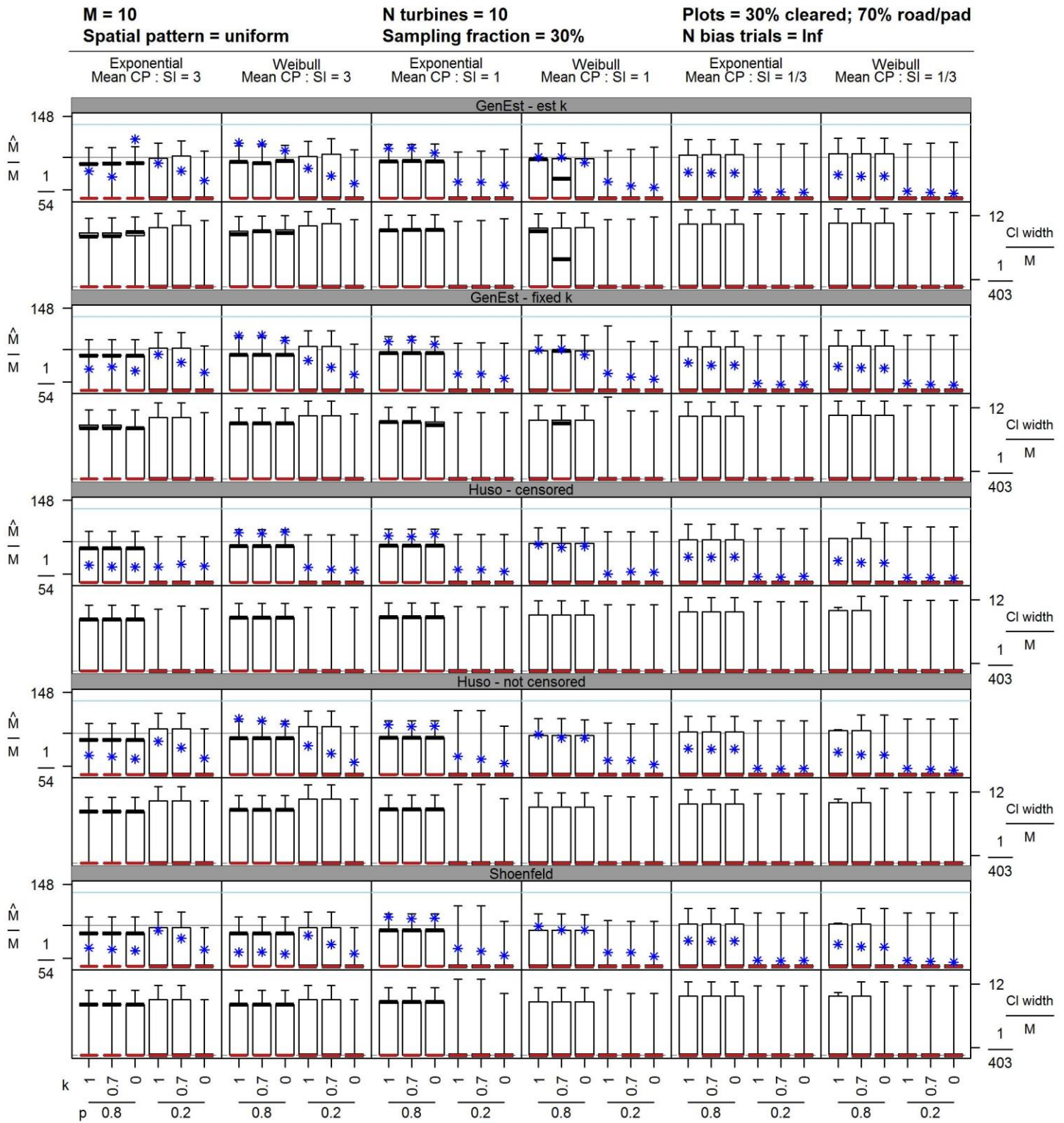


Figure A110. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

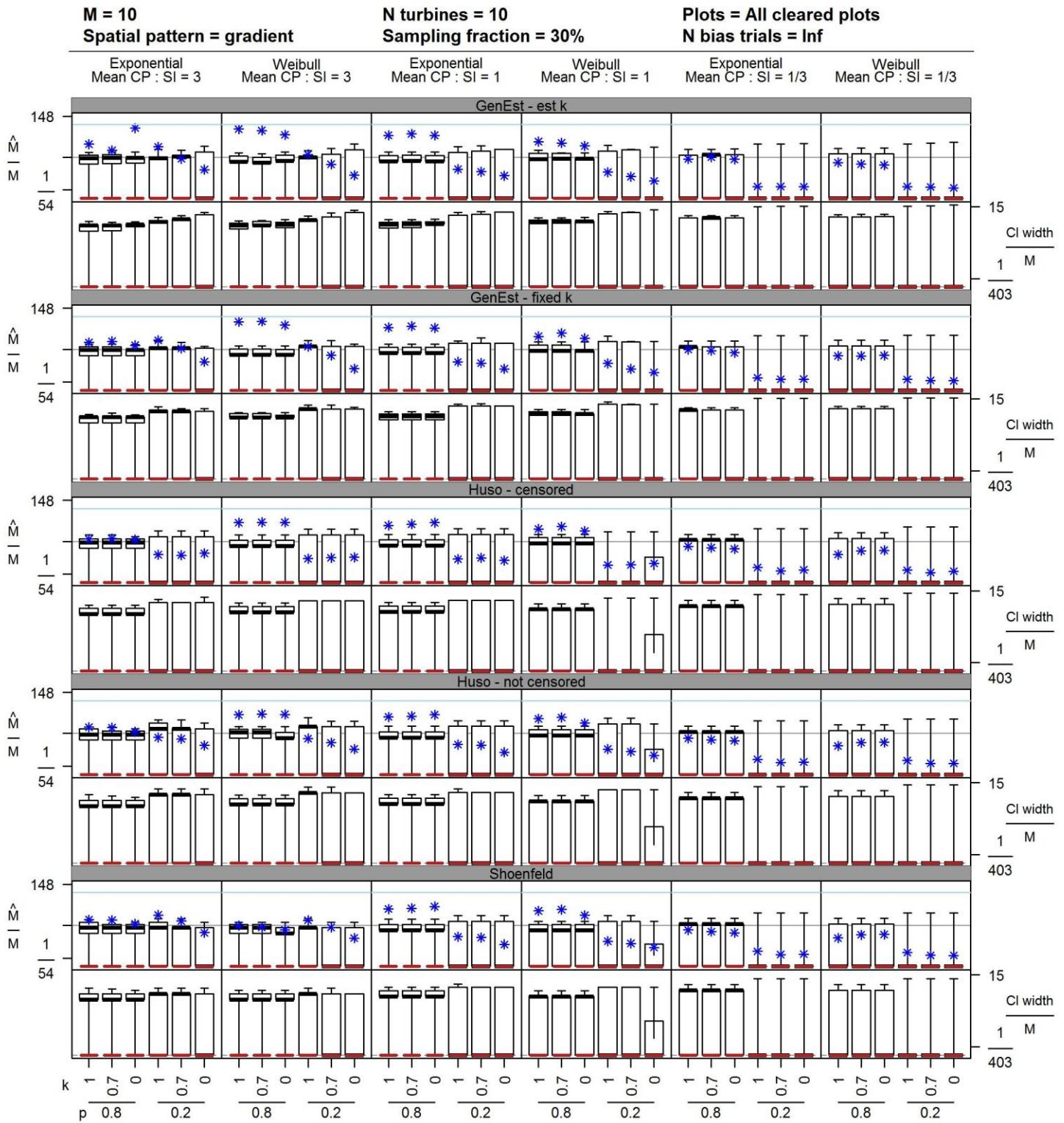


Figure A111. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

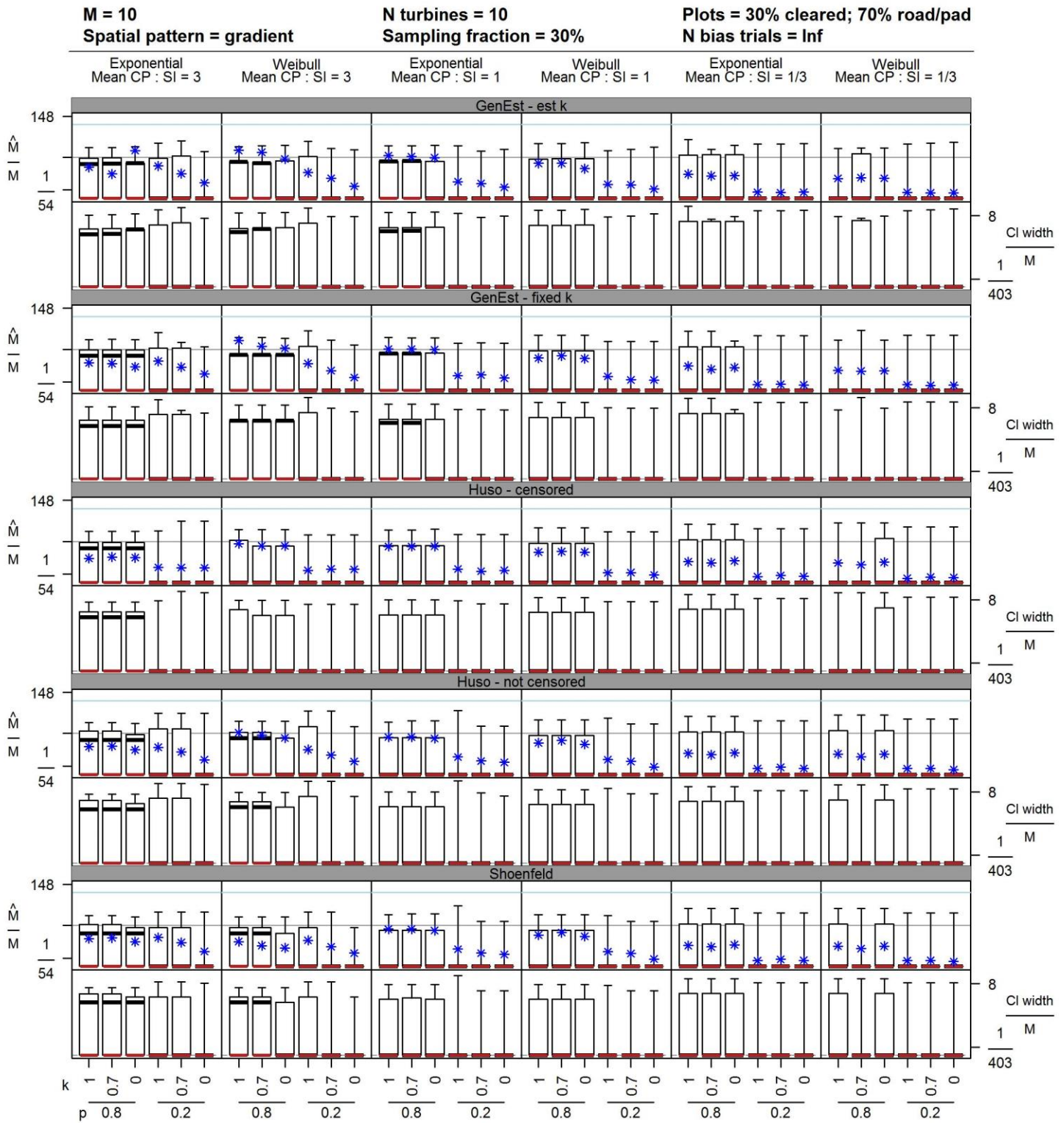


Figure A112. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 100%**

**Plots = All cleared plots**  
**N bias trials = 50**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A113. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 100%**

**Plots = 30% cleared; 70% road/pad**  
**N bias trials = 50**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A114. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*



Performance of the GenEst Statistical Mortality Estimator

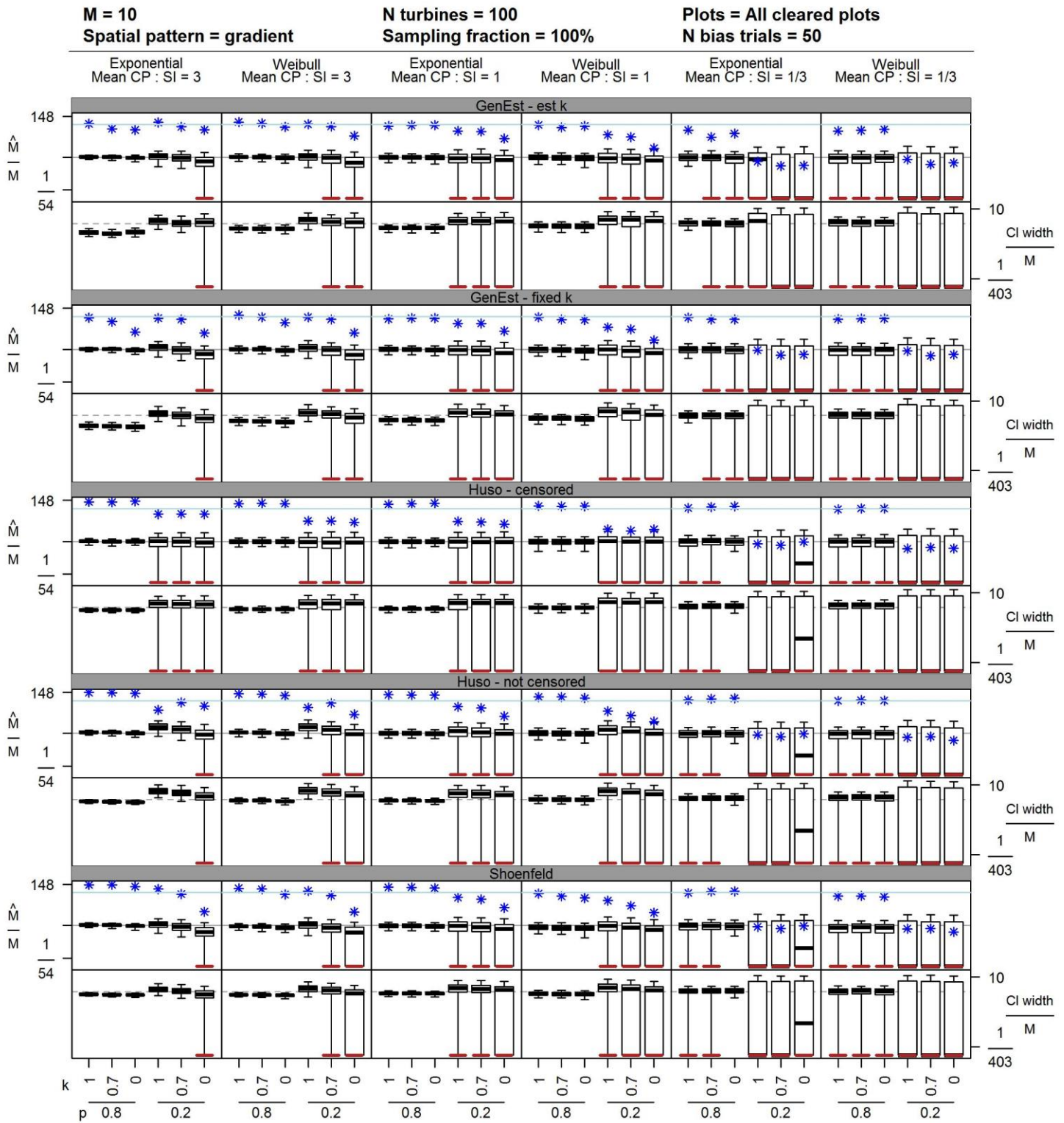


Figure A115. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

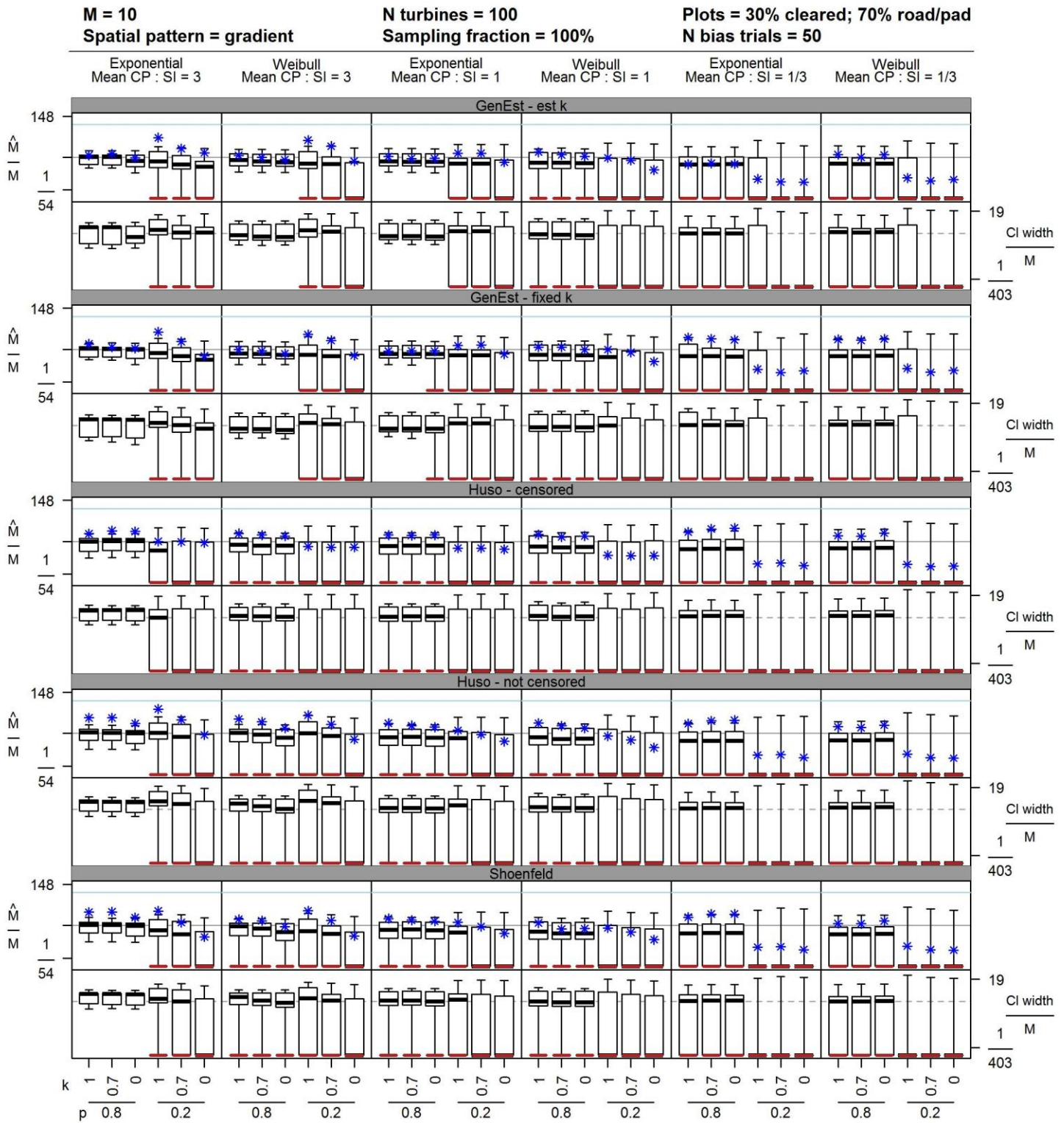


Figure A116. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 30%**

**Plots = All cleared plots**  
**N bias trials = 50**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A117. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 30%**

**Plots = 30% cleared; 70% road/pad**  
**N bias trials = 50**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A118. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

Performance of the GenEst Statistical Mortality Estimator

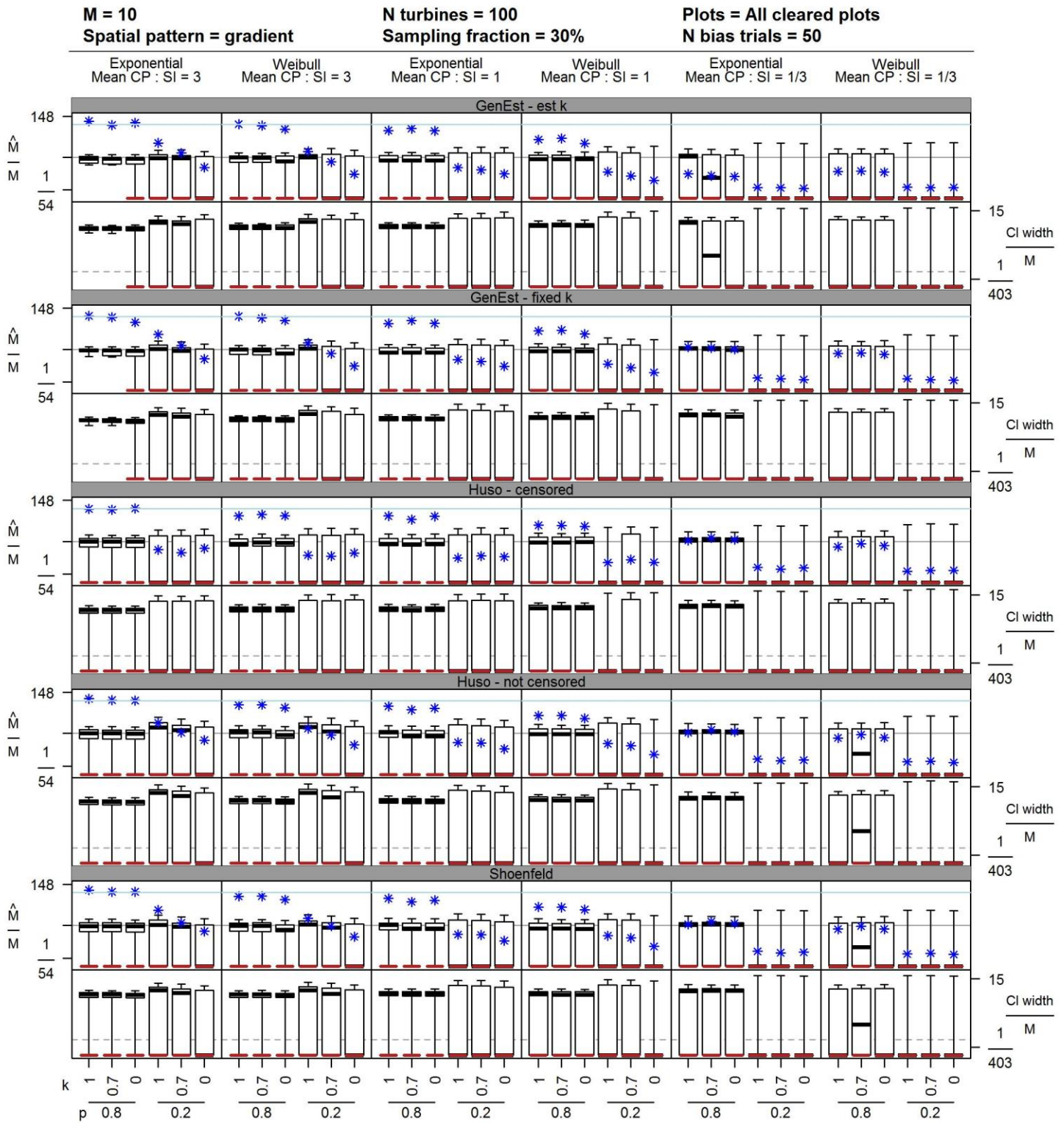


Figure A119. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

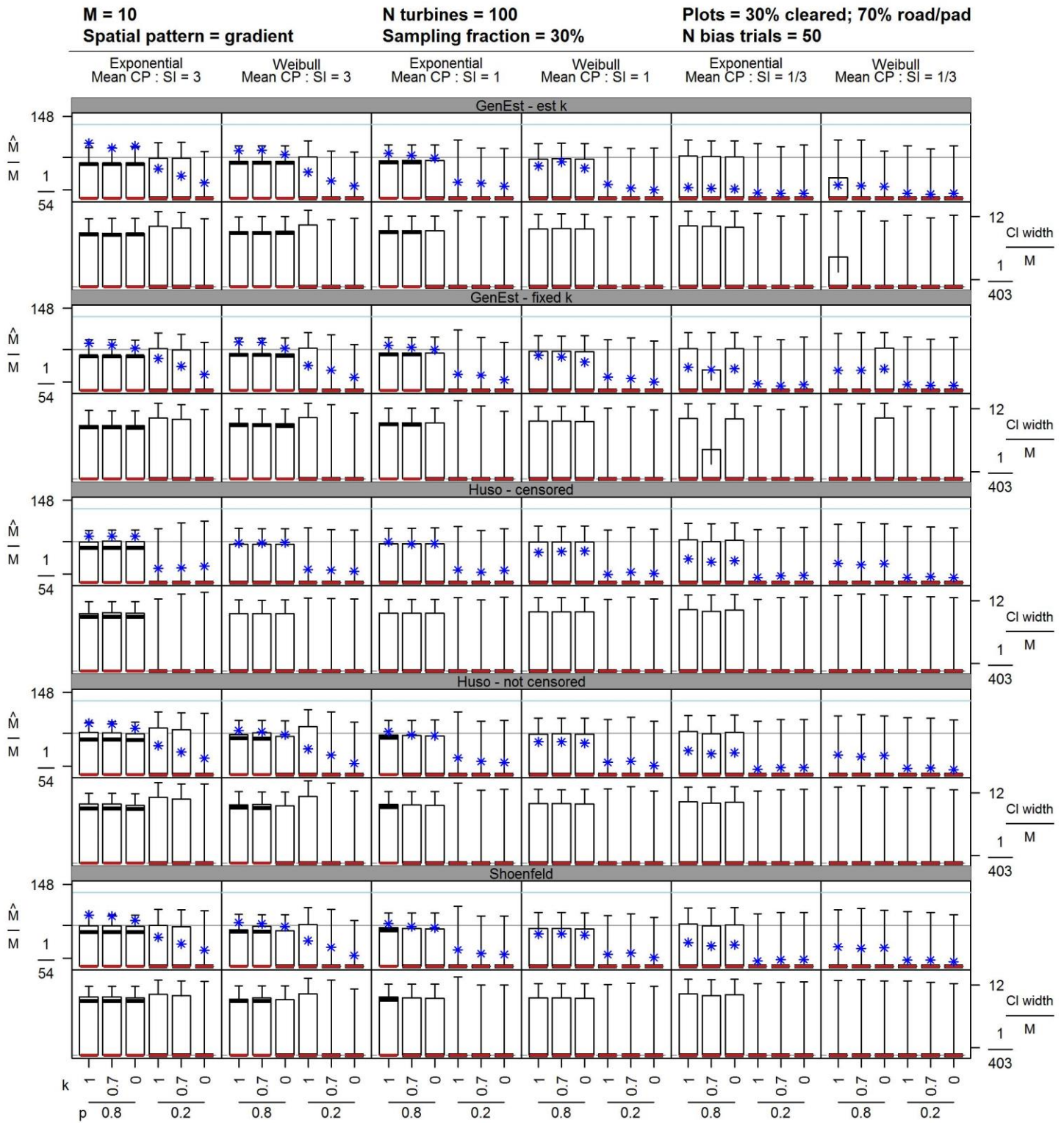


Figure A120. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

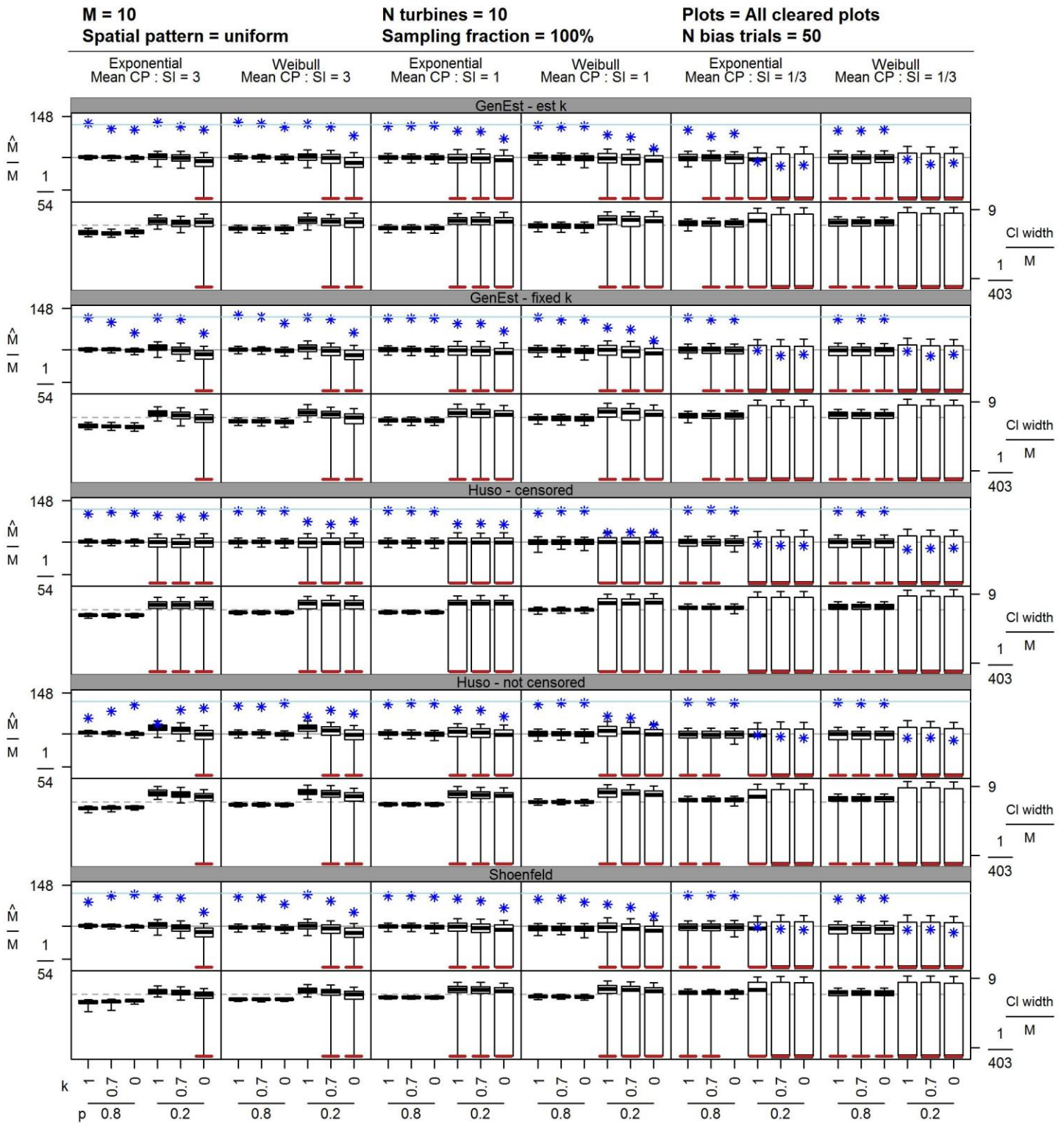


Figure A121. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

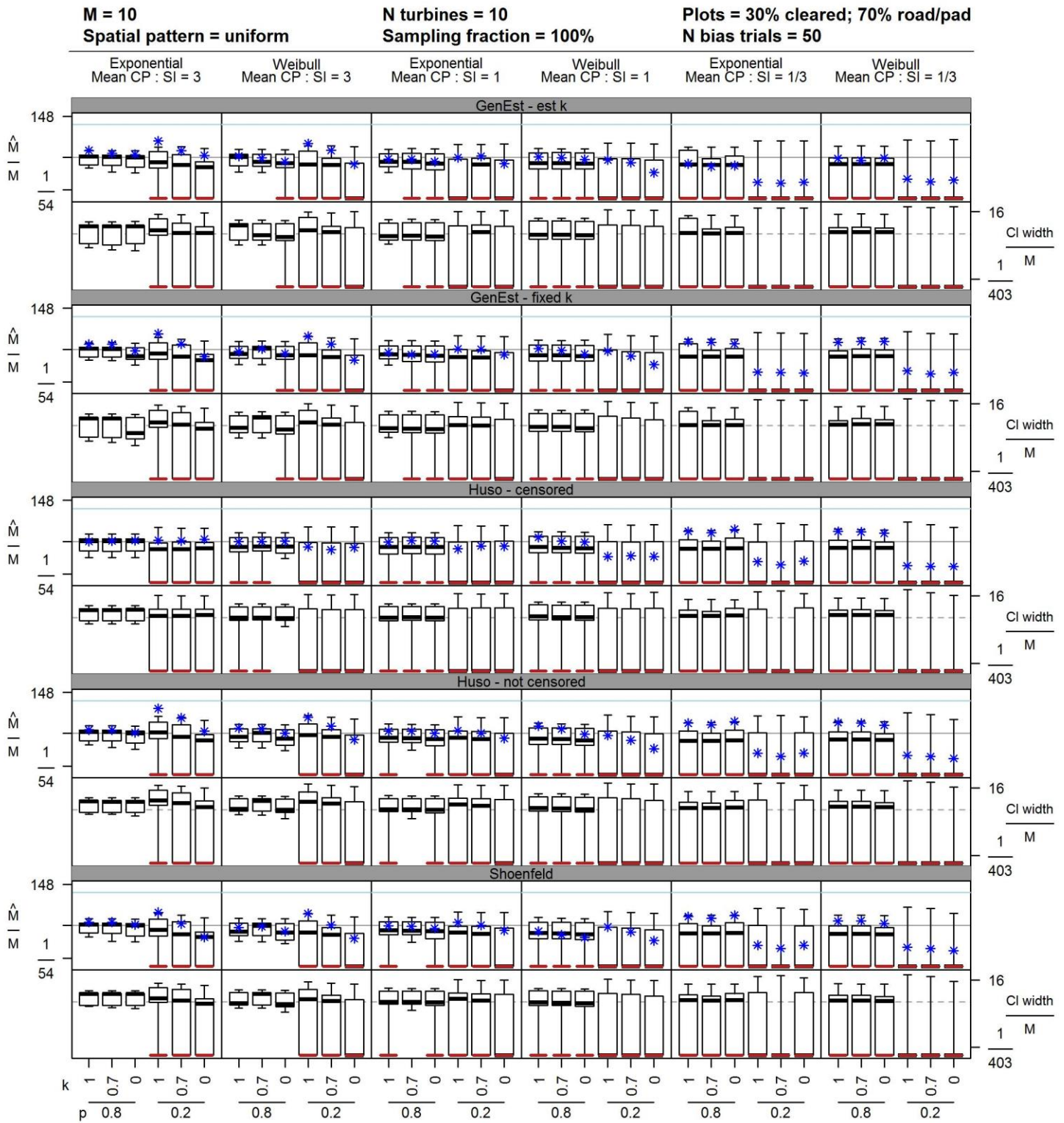


Figure A122. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

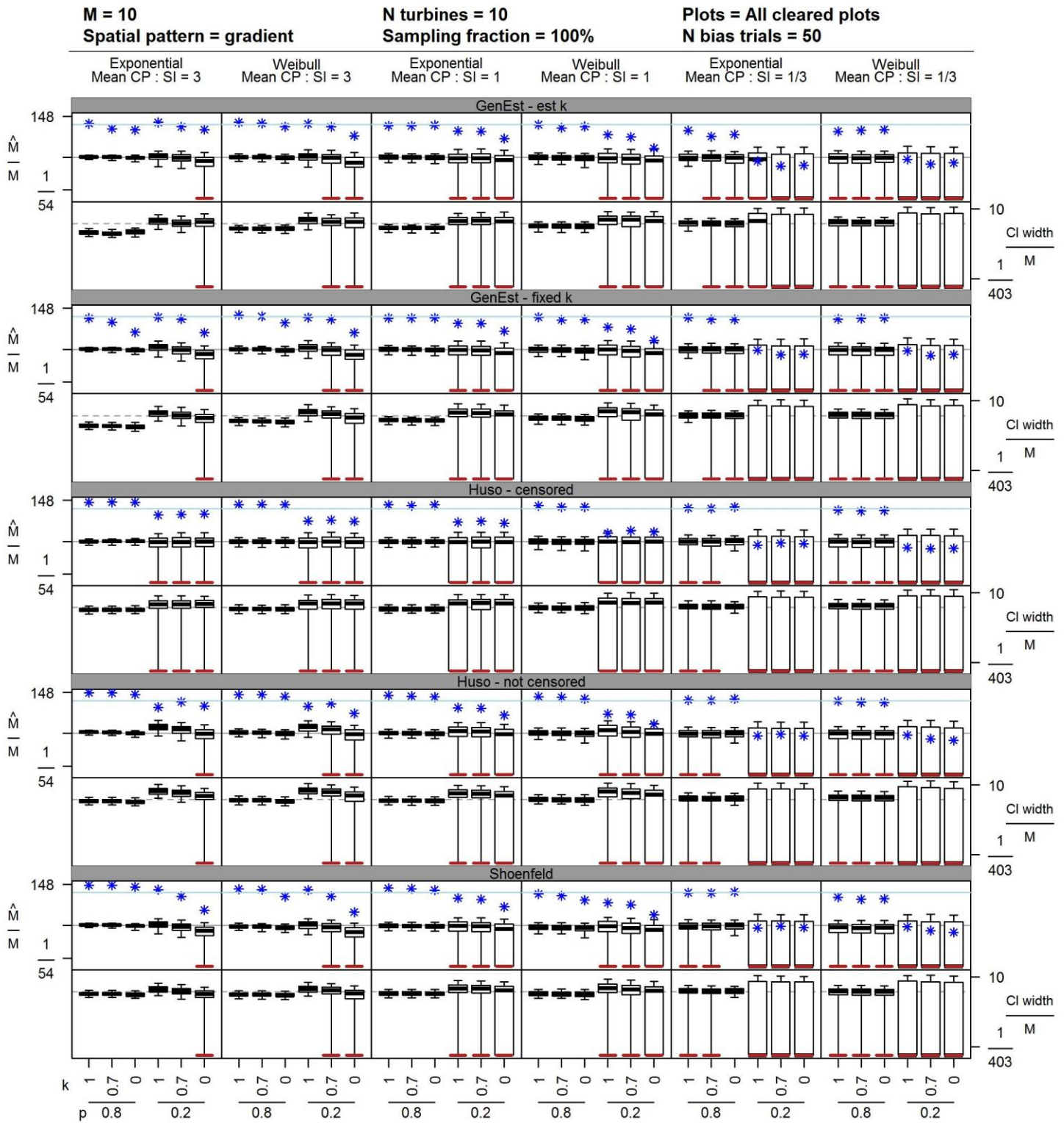


Figure A123. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

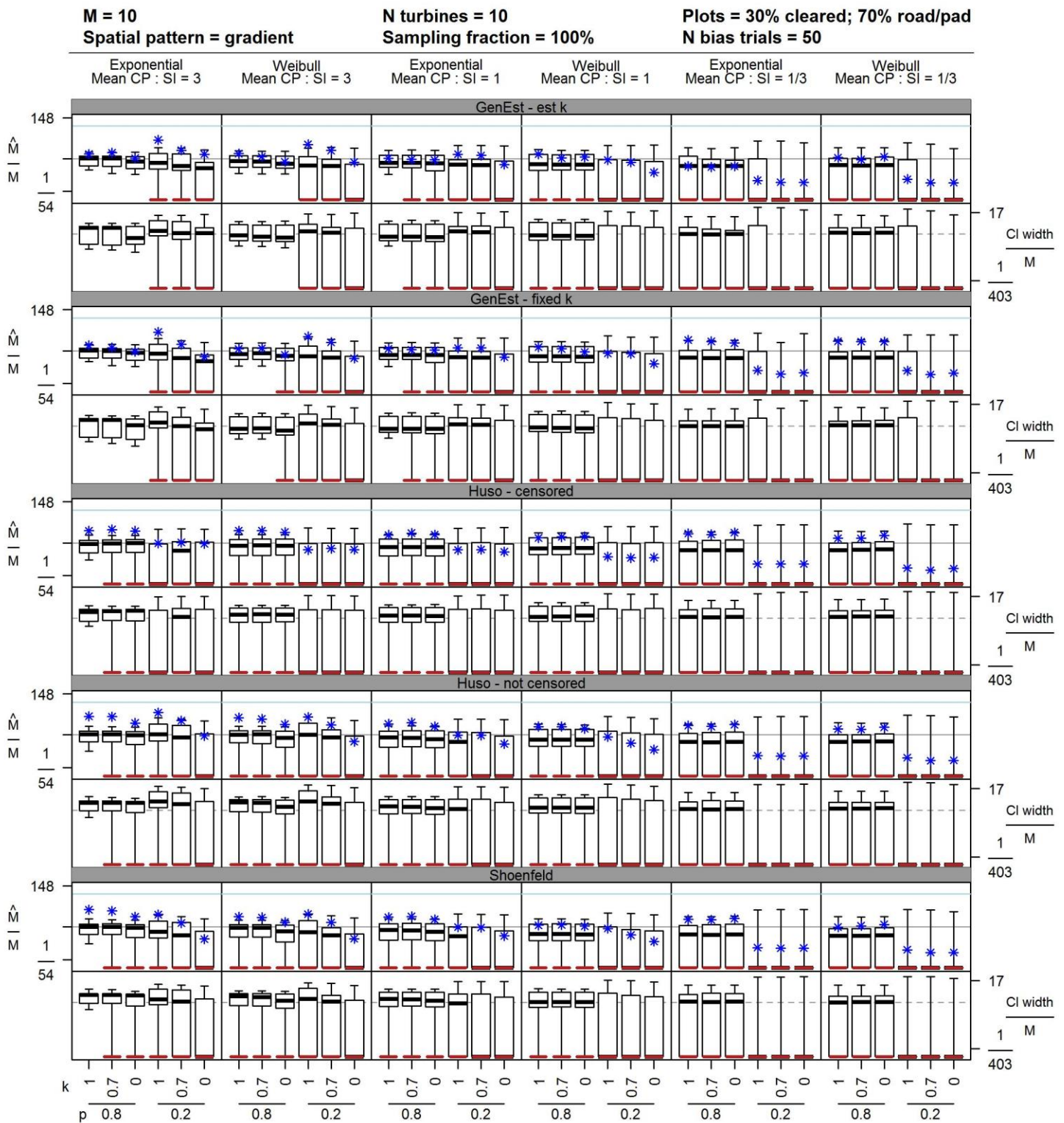


Figure A124. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

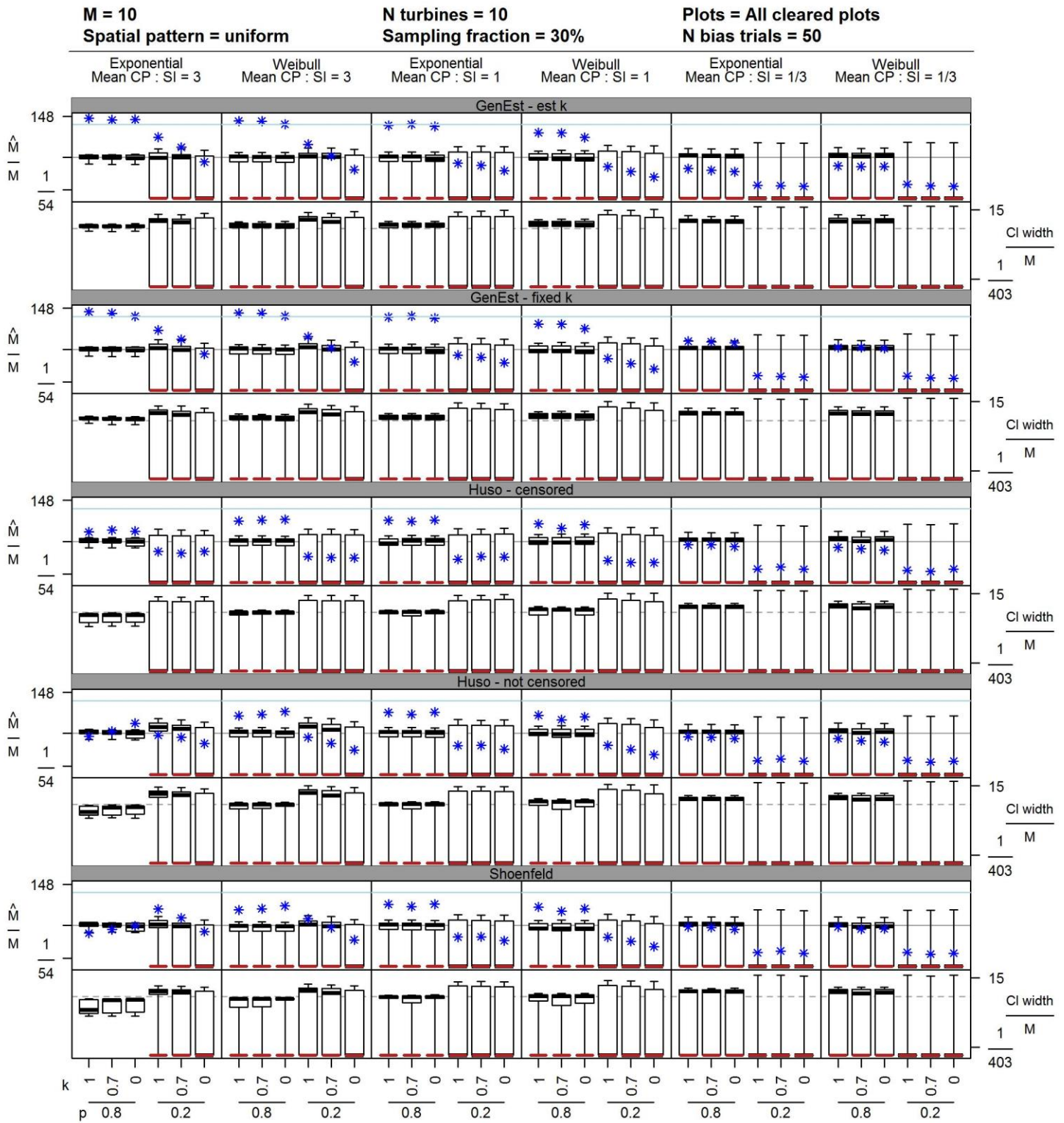


Figure A125. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

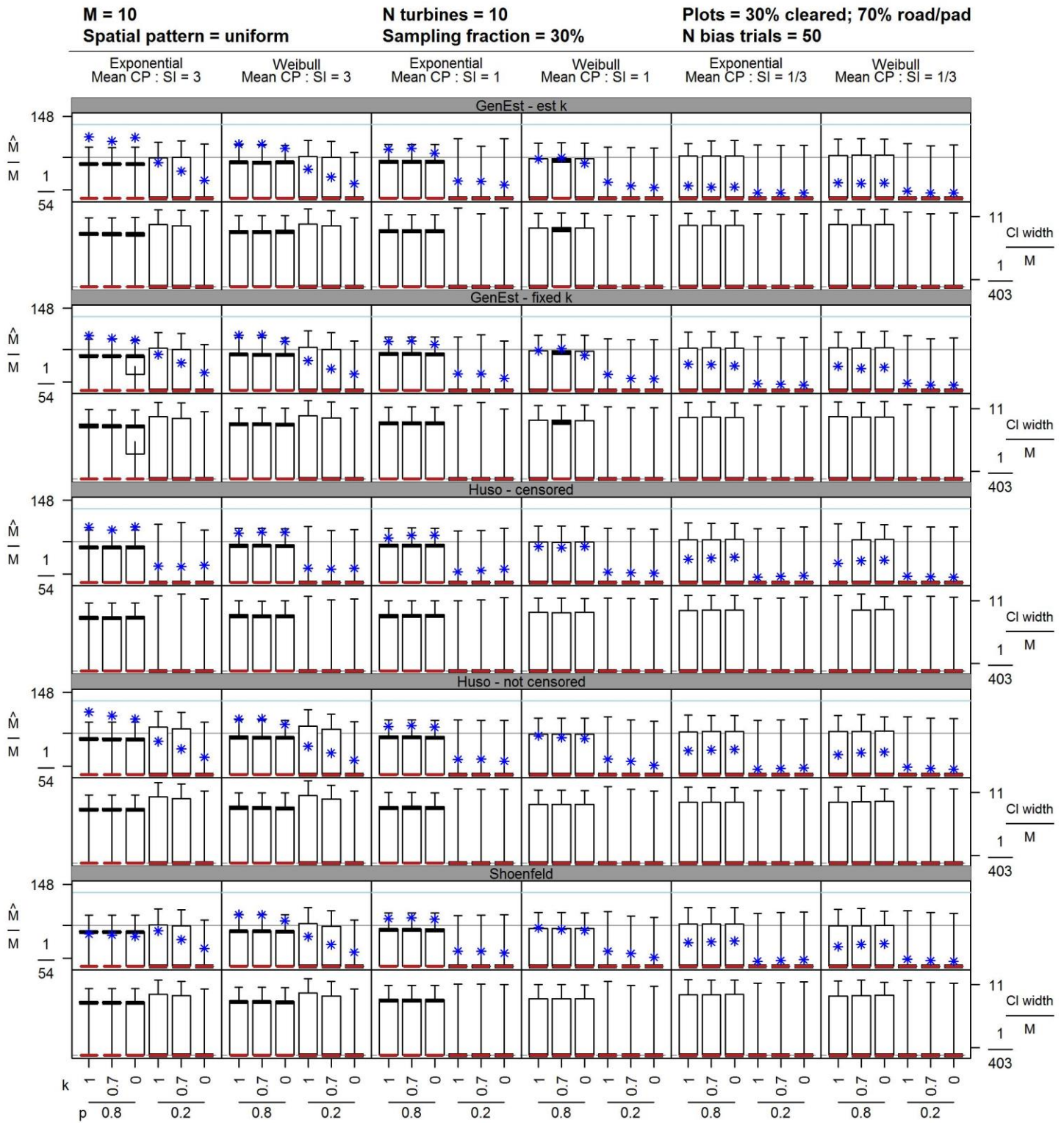


Figure A126. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

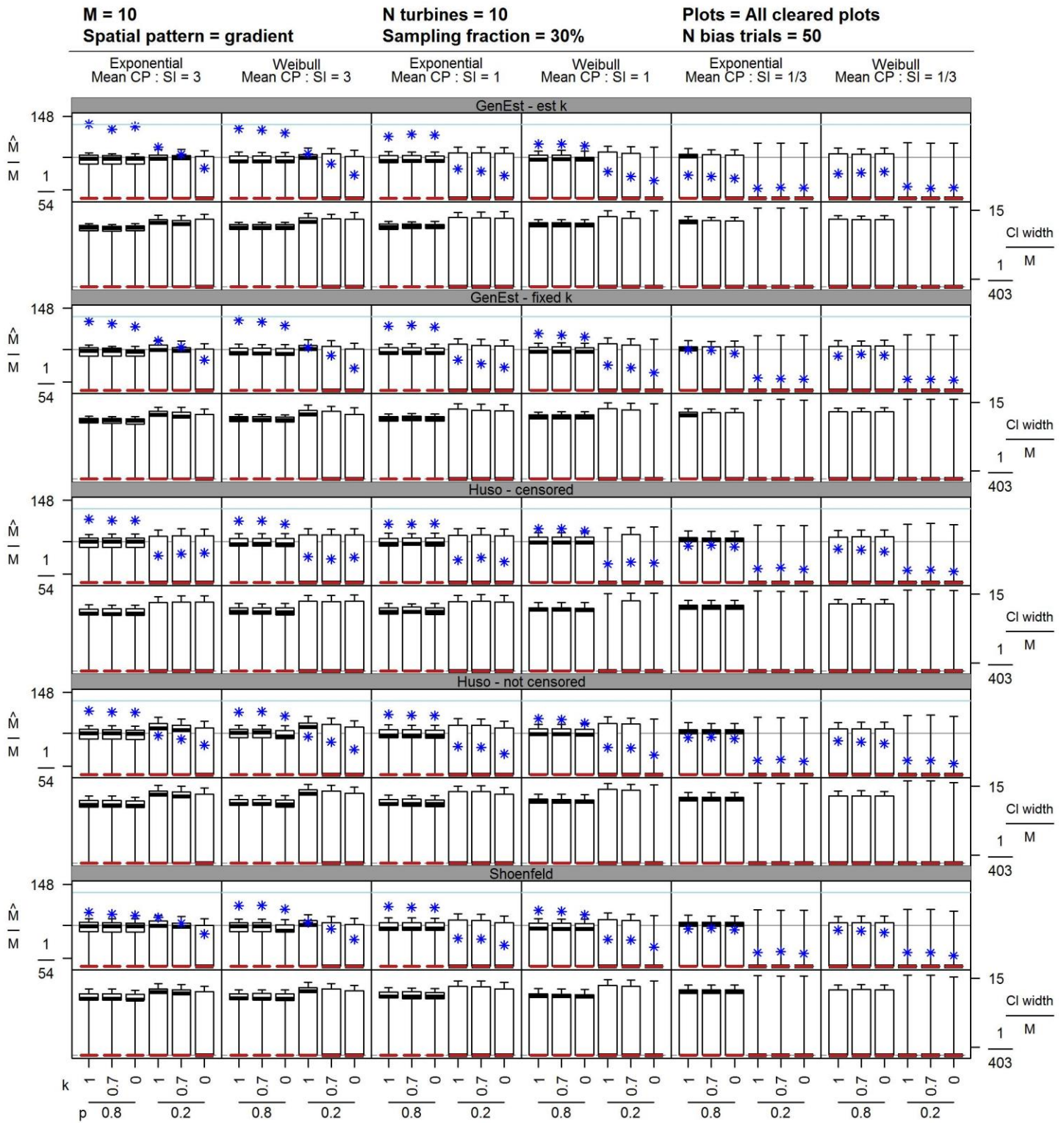


Figure A127. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

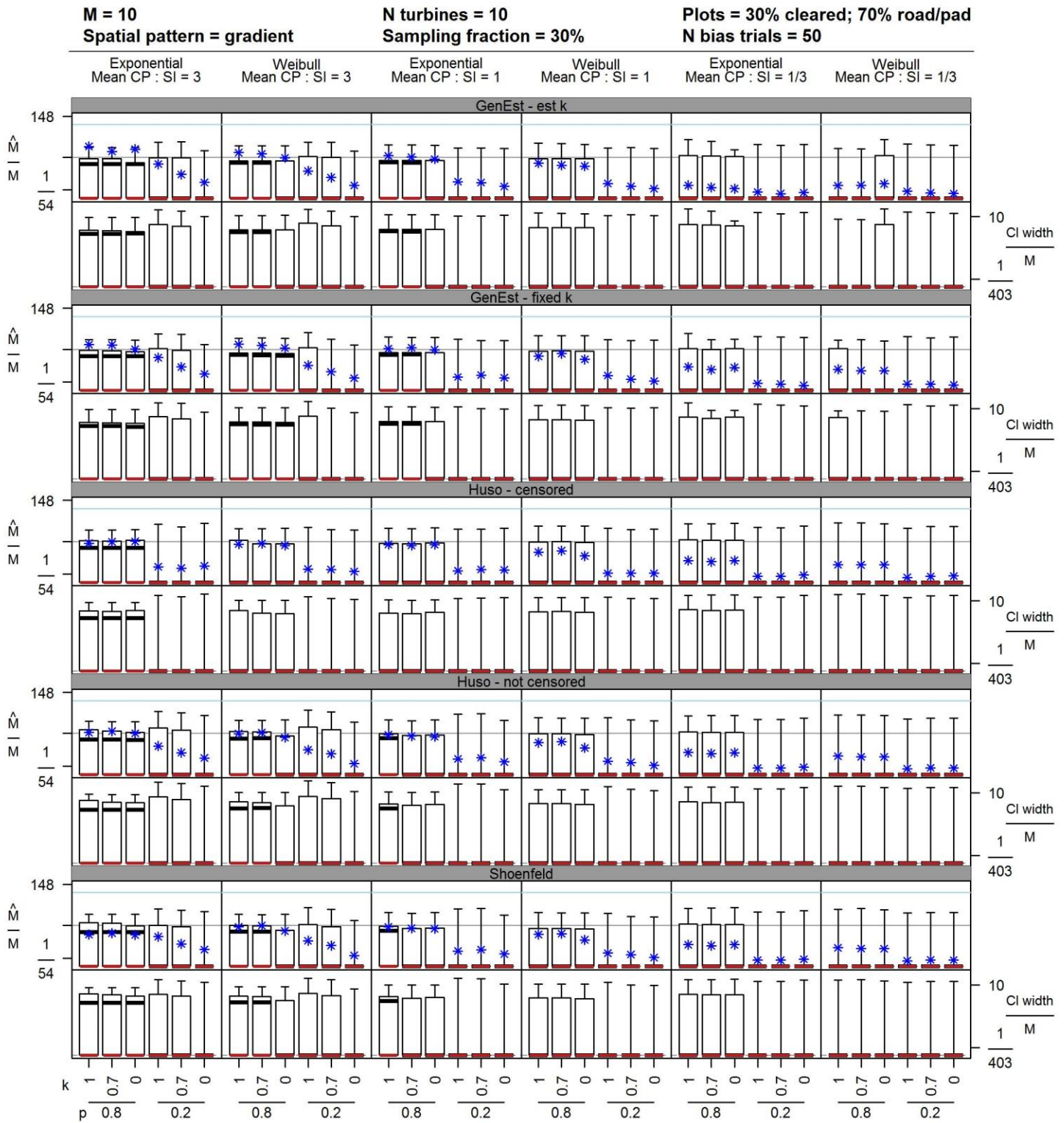


Figure A128. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 100%**

**Plots = All cleared plots**  
**N bias trials = 10**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A129. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 100%**

**Plots = 30% cleared; 70% road/pad**  
**N bias trials = 10**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A130. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*



Performance of the GenEst Statistical Mortality Estimator

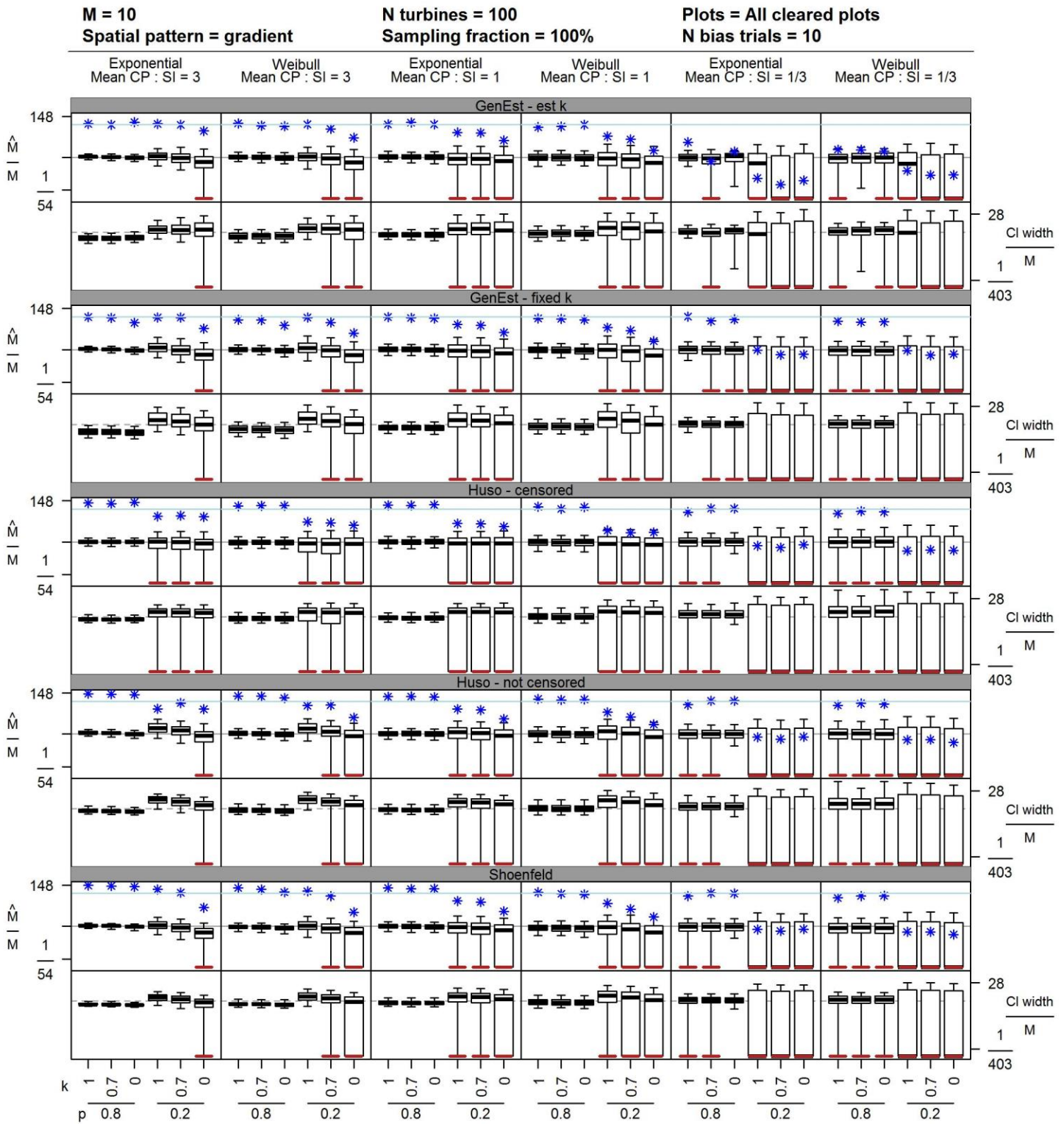


Figure A131. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

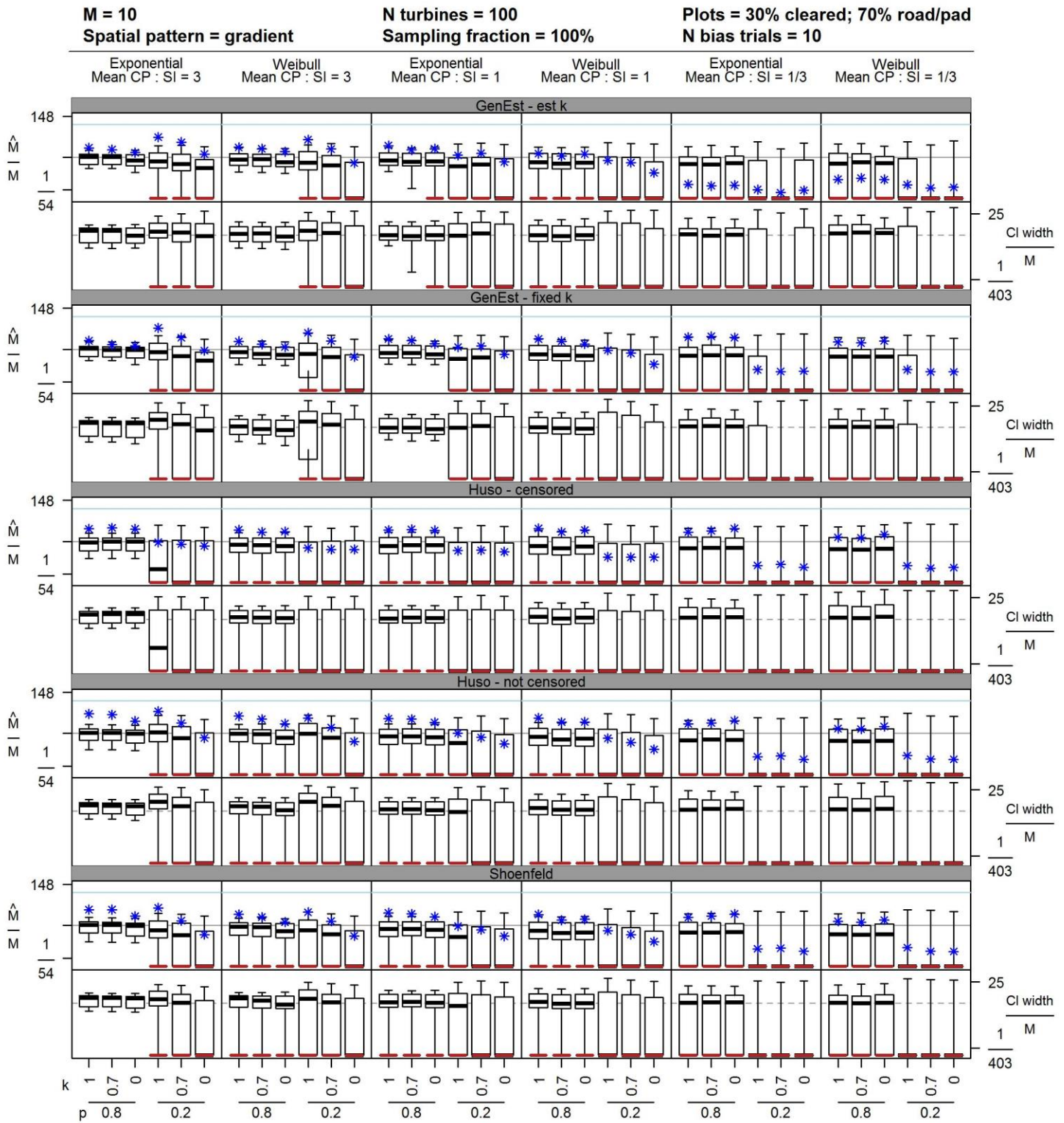


Figure A132. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 30%**

**Plots = All cleared plots**  
**N bias trials = 10**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A133. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

**M = 10**  
**Spatial pattern = uniform**

**N turbines = 100**  
**Sampling fraction = 30%**

**Plots = 30% cleared; 70% road/pad**  
**N bias trials = 10**

---

No data because 10 whole carcasses  
cannot be distributed uniformly  
among 100 turbines.

*Figure A134. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.*

Performance of the GenEst Statistical Mortality Estimator

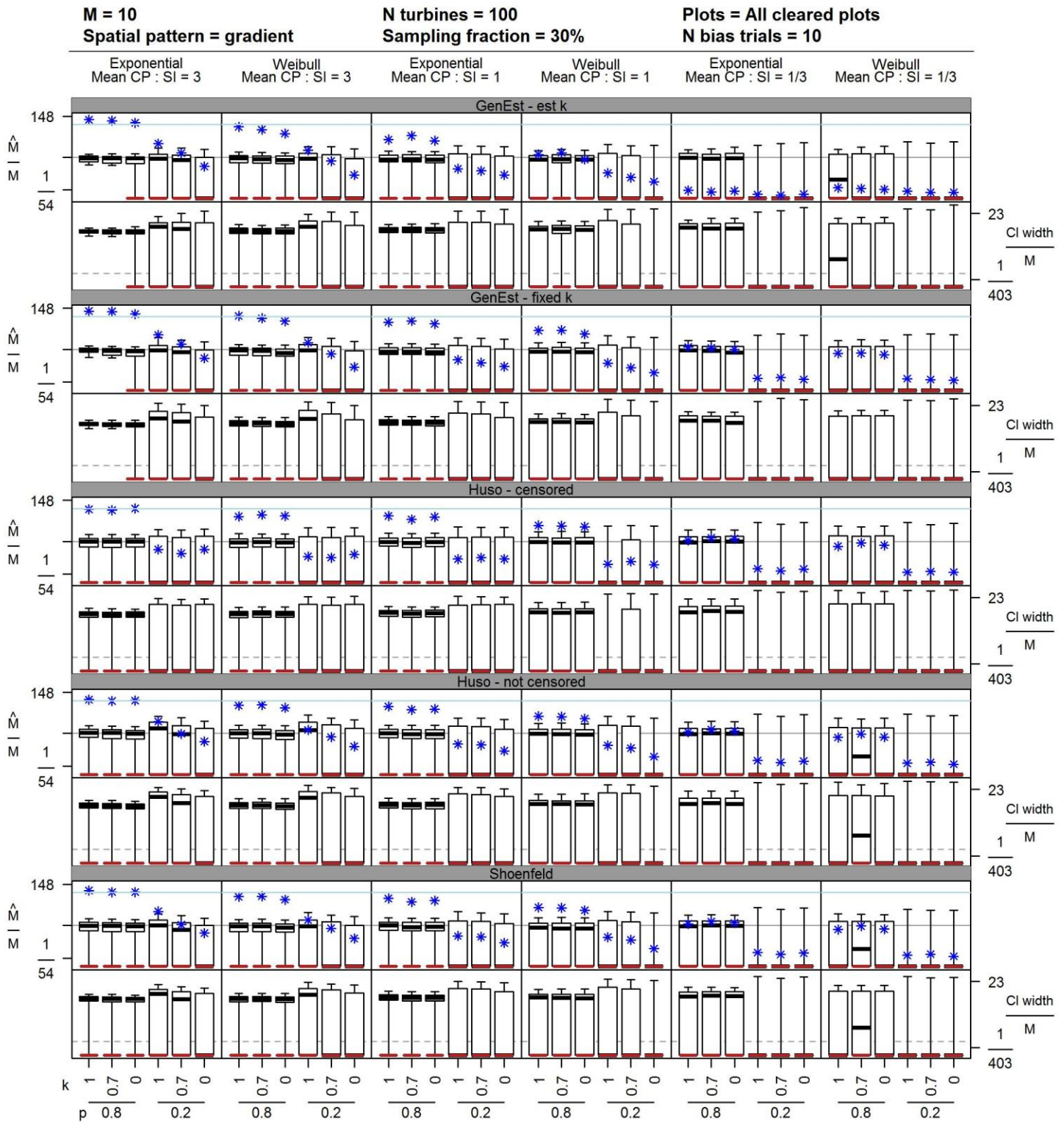


Figure A135. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

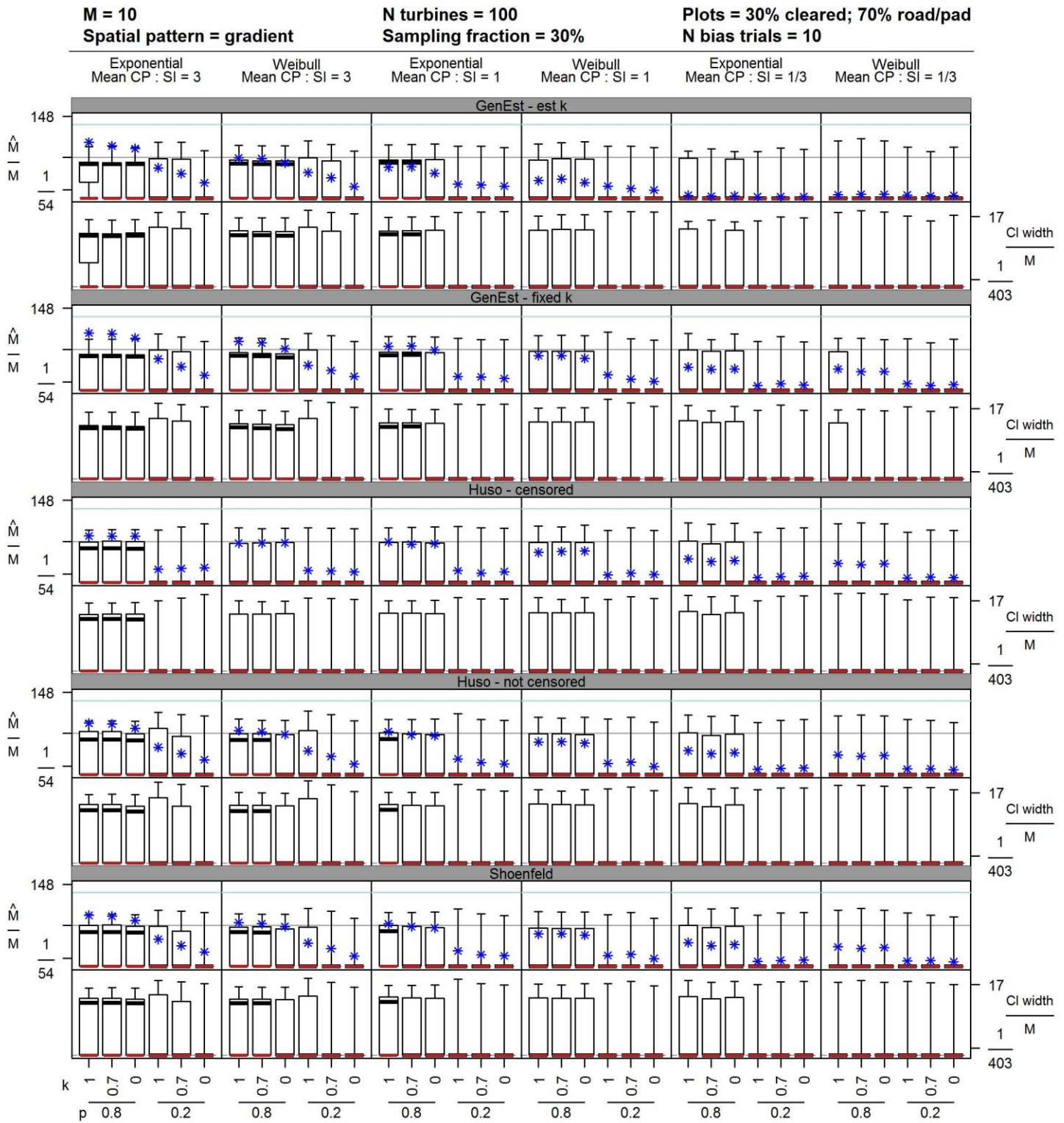


Figure A136. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

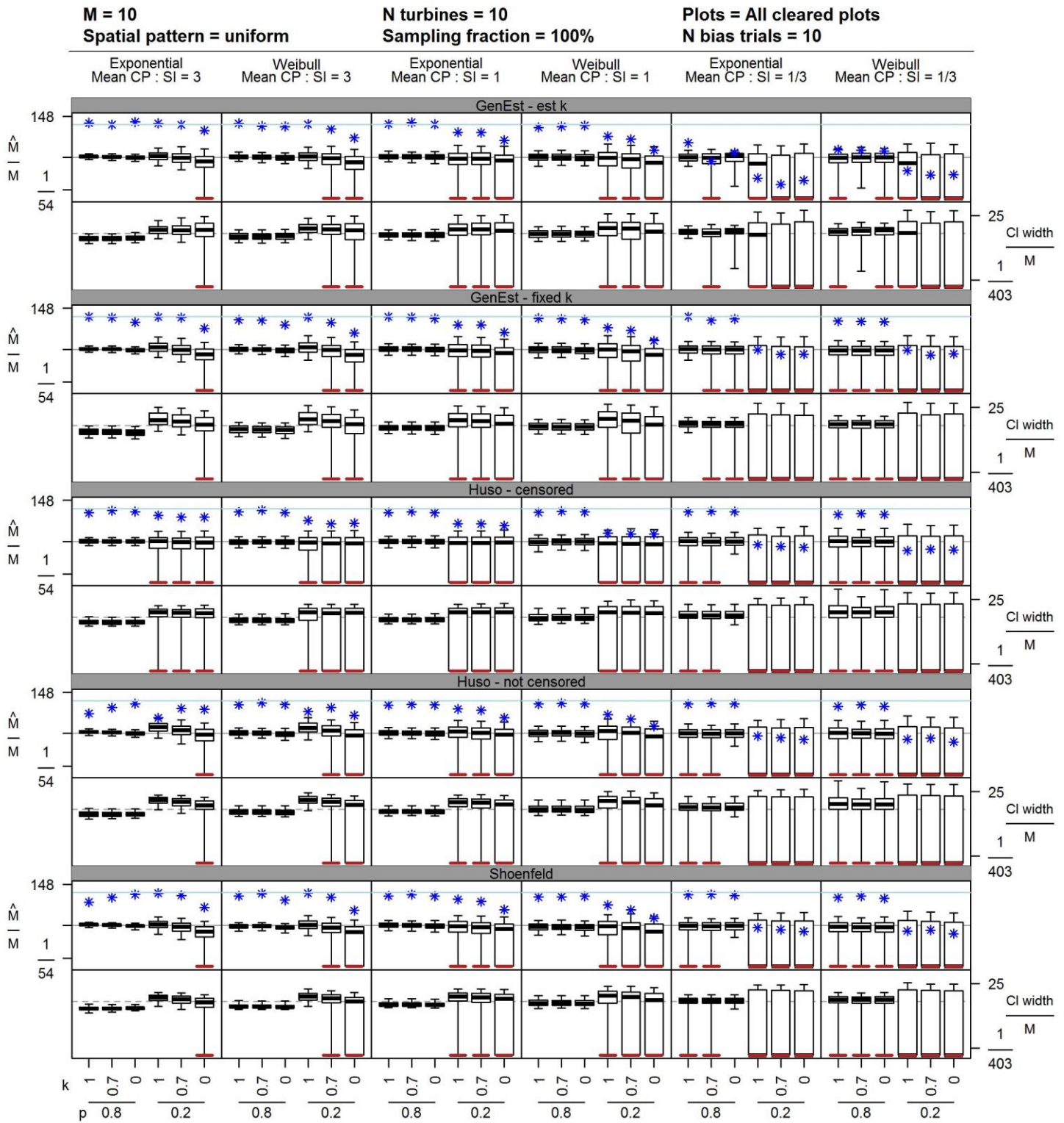


Figure A137. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

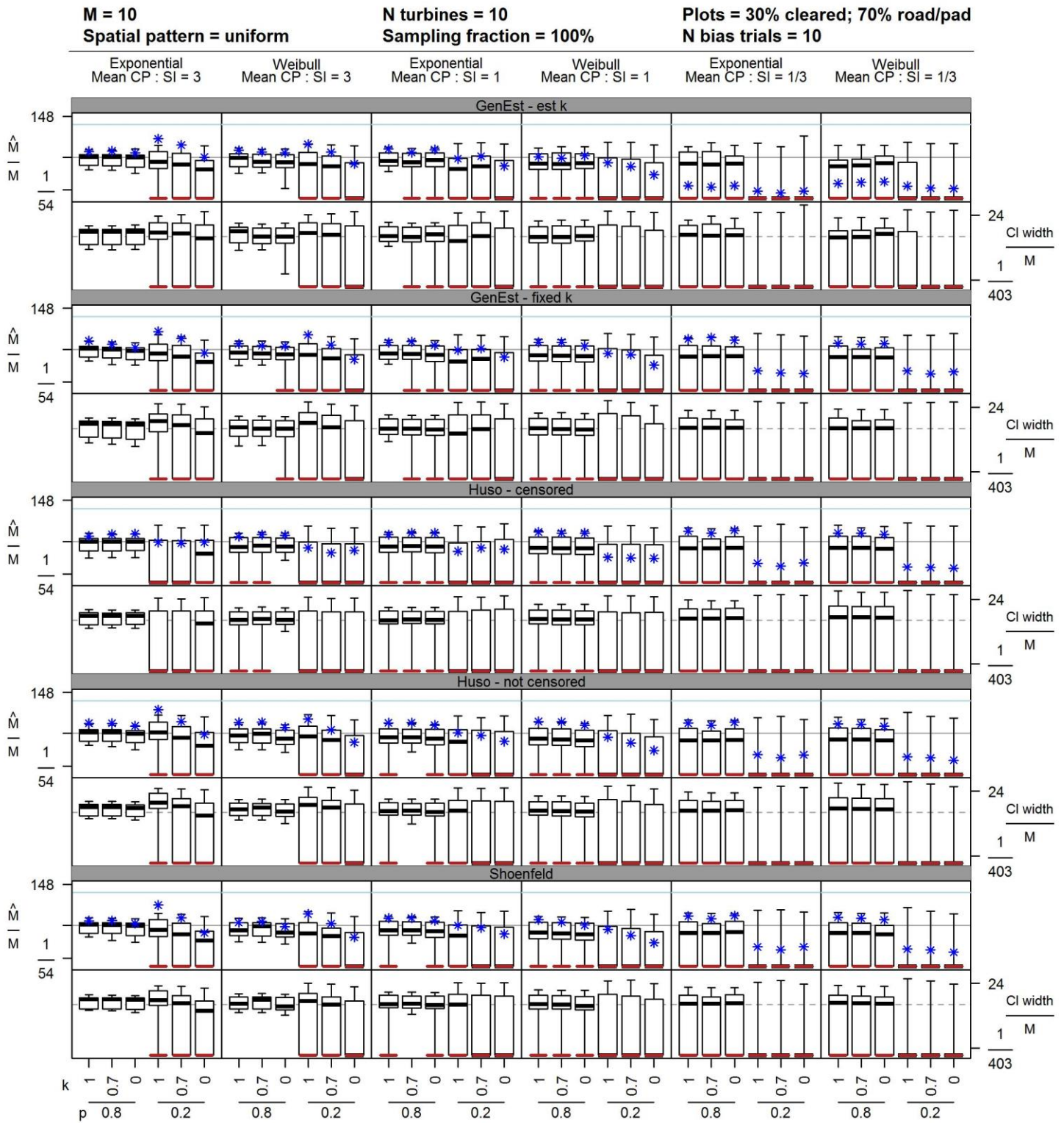


Figure A138. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.



Performance of the GenEst Statistical Mortality Estimator

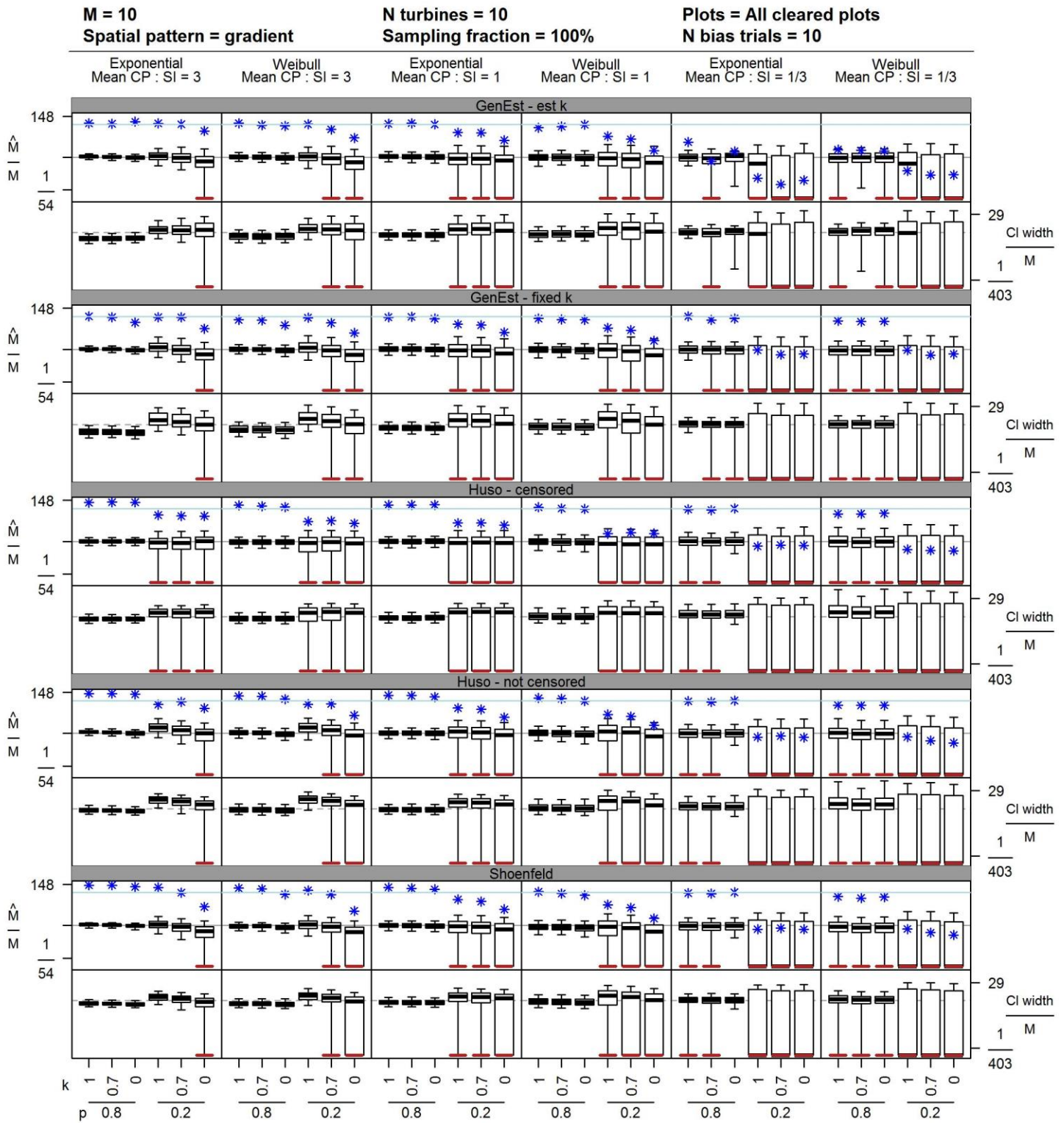


Figure A139. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

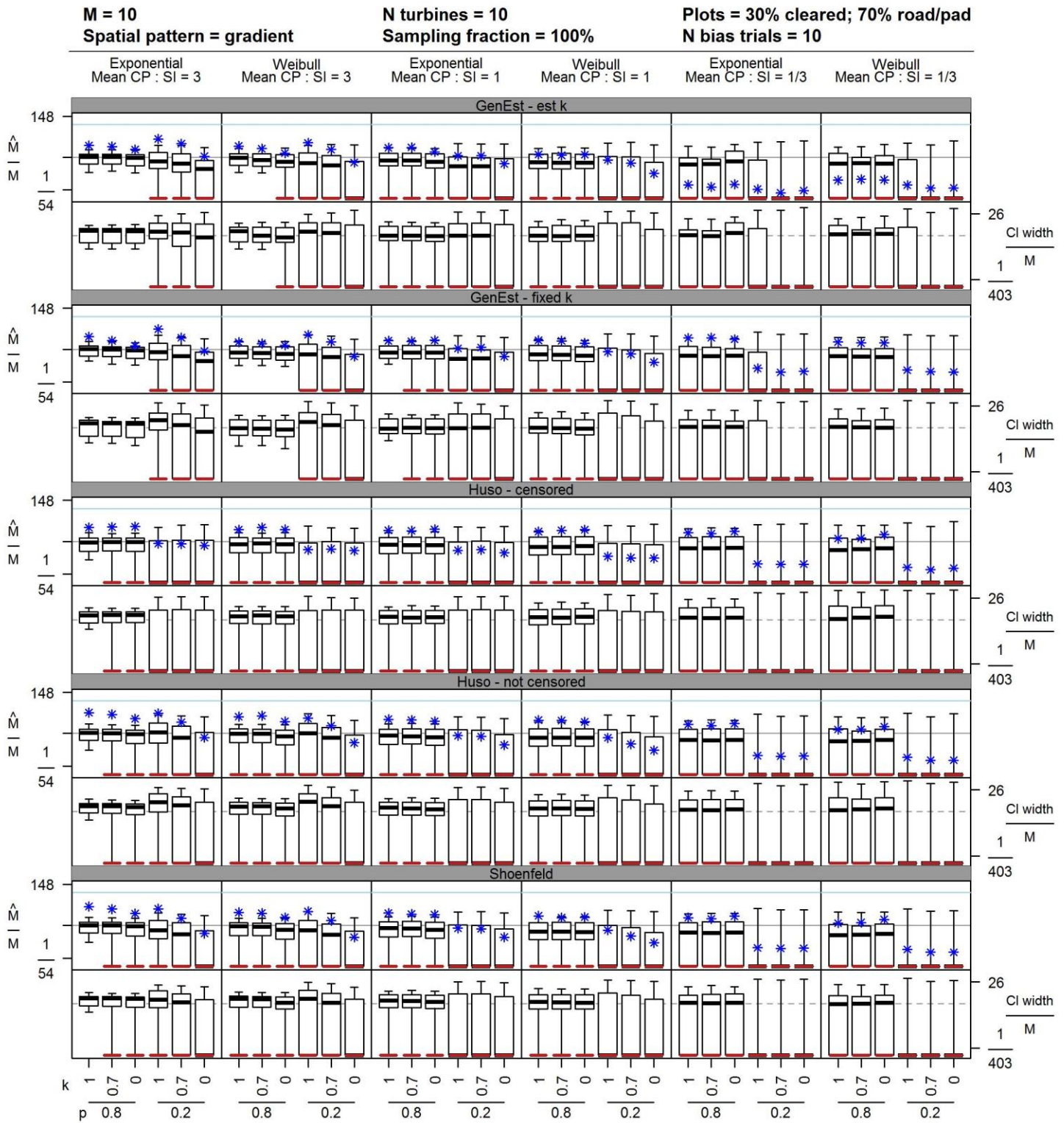


Figure A140. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

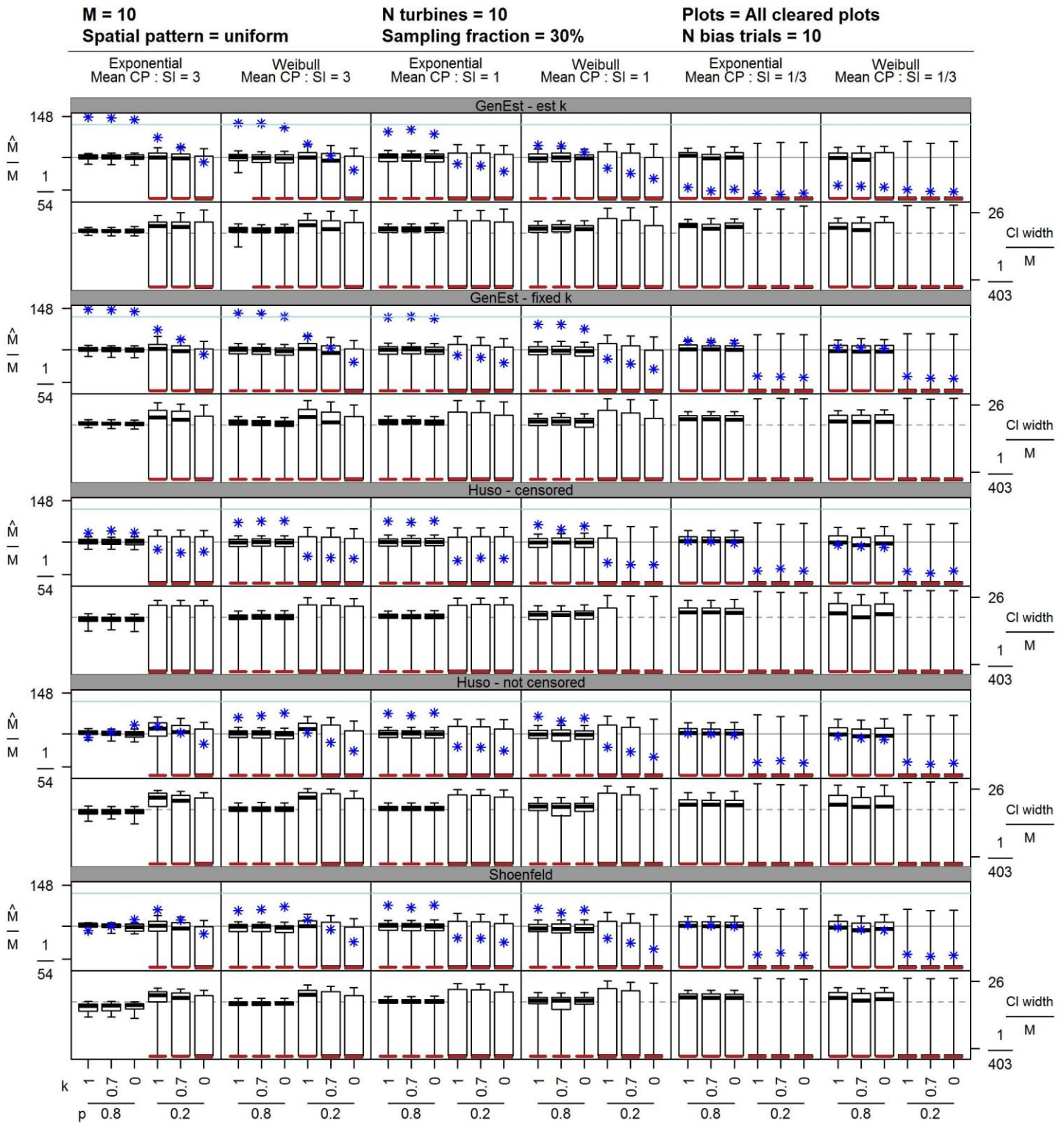


Figure A141. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

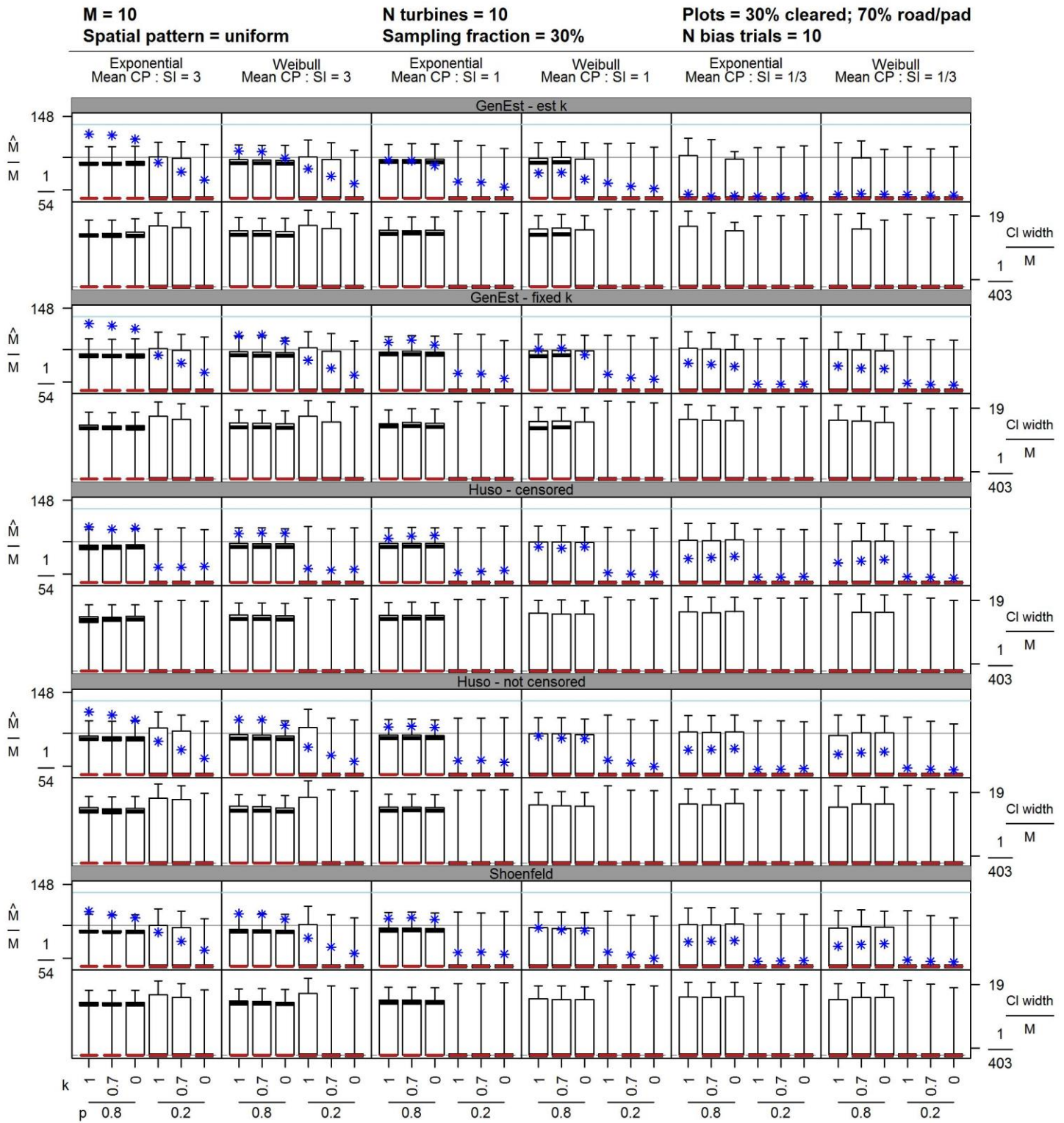


Figure A142. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

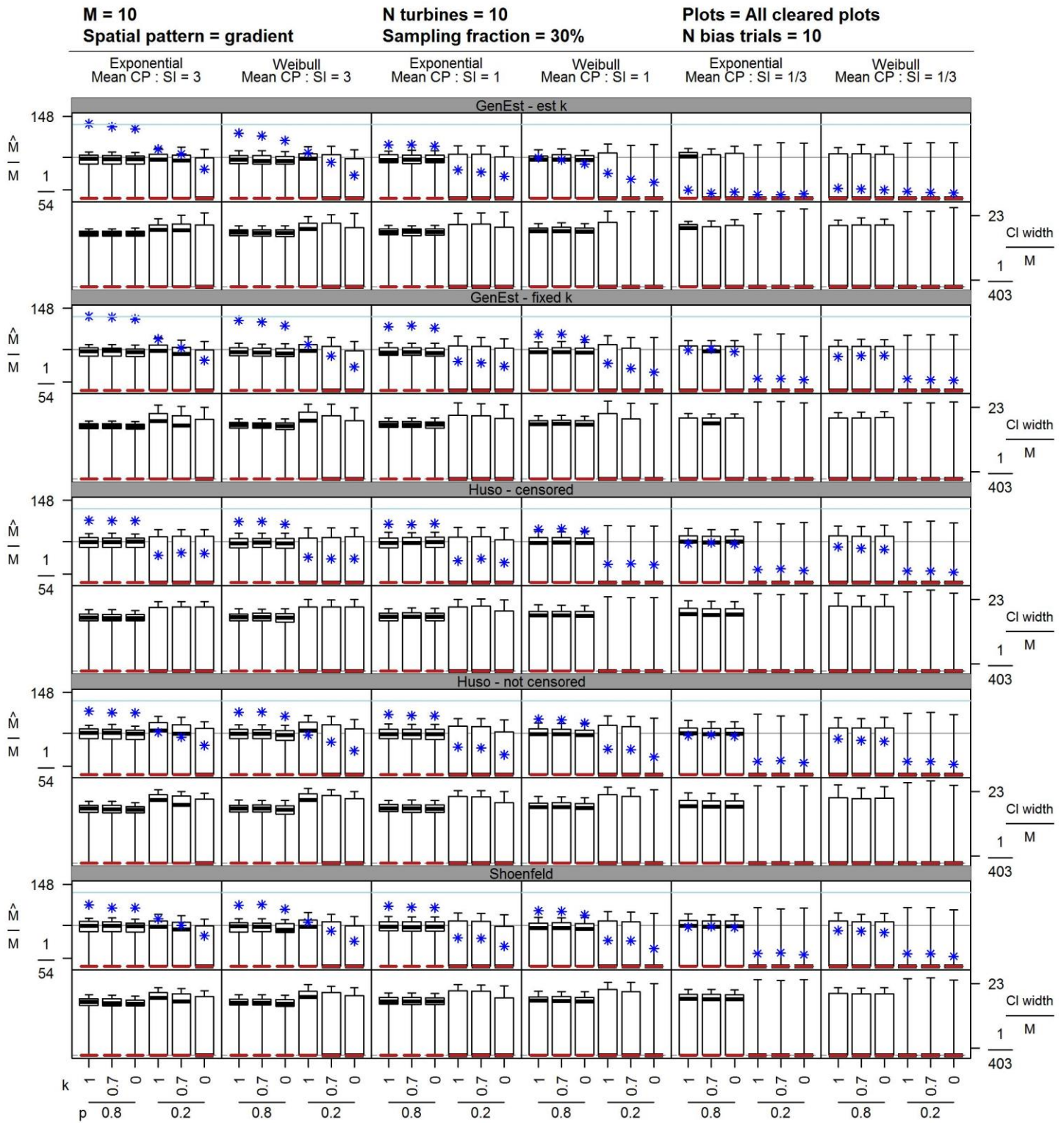


Figure A143. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.

Performance of the GenEst Statistical Mortality Estimator

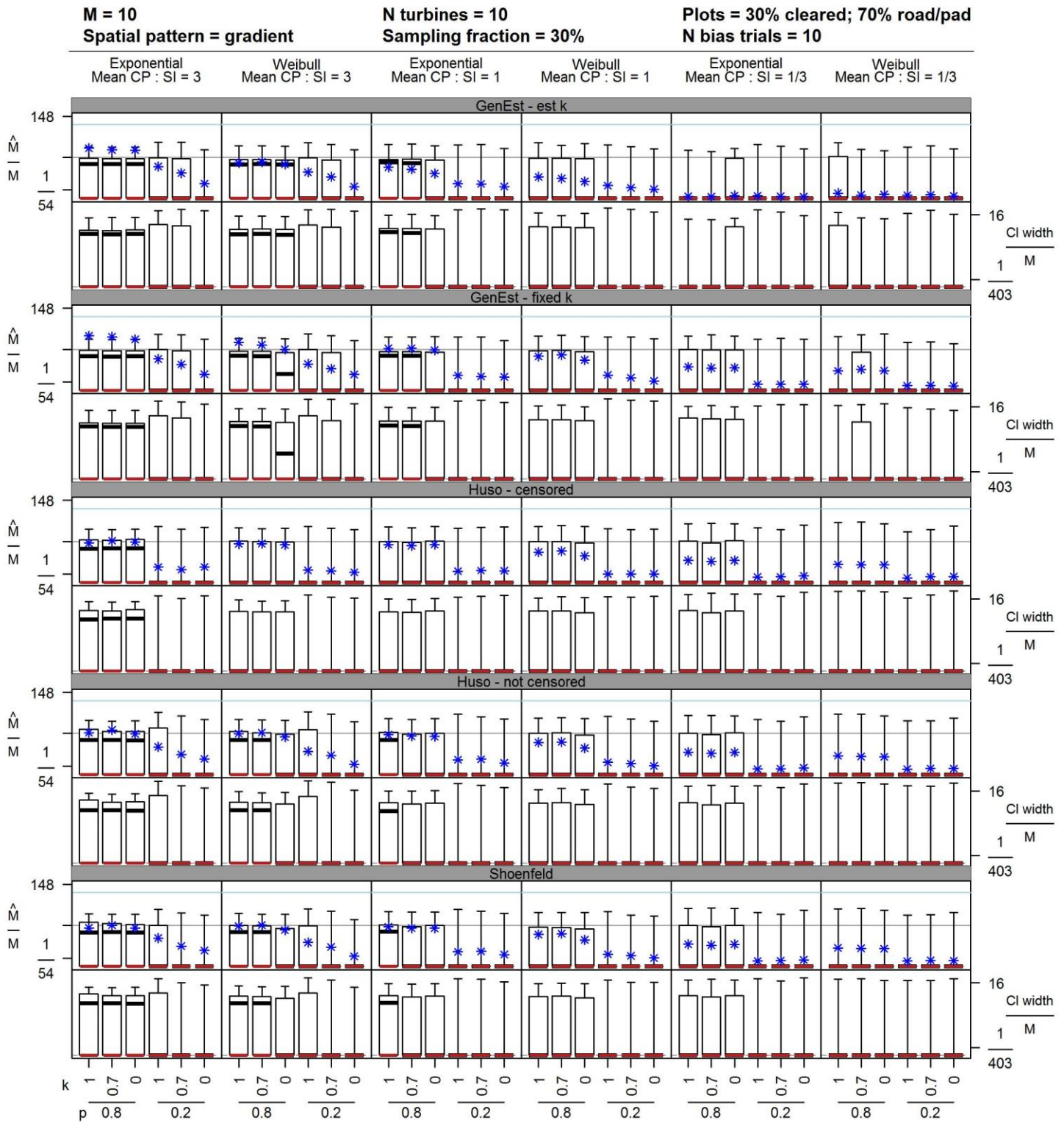


Figure A144. Accuracy ratio (left axes), confidence interval coverage for a 90% nominal CI (blue asterisks; reference line at 90% in light blue) and relative precision (right axes) for each estimator for 180 simulation conditions. Y-axes for accuracy ratio and relative precision have been log-transformed. Boxplots with red bases include zero (axis cut below the lower tick). See Description of the Figures, Page 1 for a full description of the figure.