Appendix III. Conditional Quantile Plots of Late Winter Data in 90 UK Cities

This section contains the figures for the 90 UK cities in the years 2018-2022 for Weather Logistics Ltd's January to March forecasts as issued on 13th December of the previous year. These 1 to 3-month forecasts are compared with the averaged ERA5 data of the corresponding months.
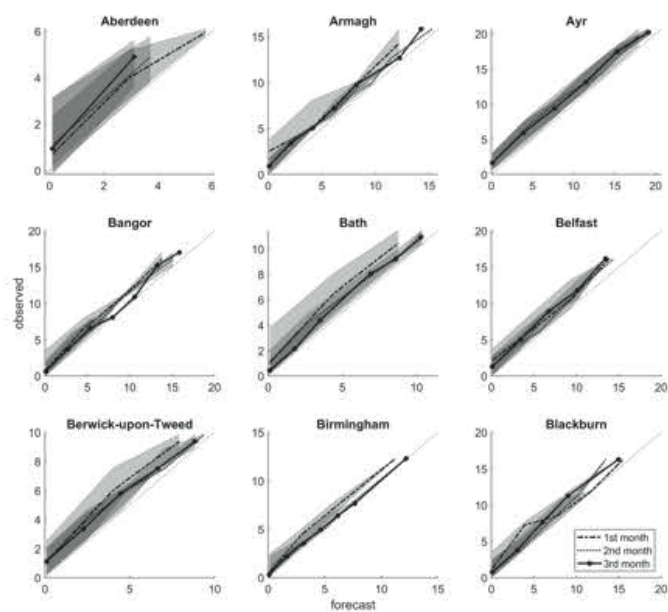

Figure 9: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 1-9.
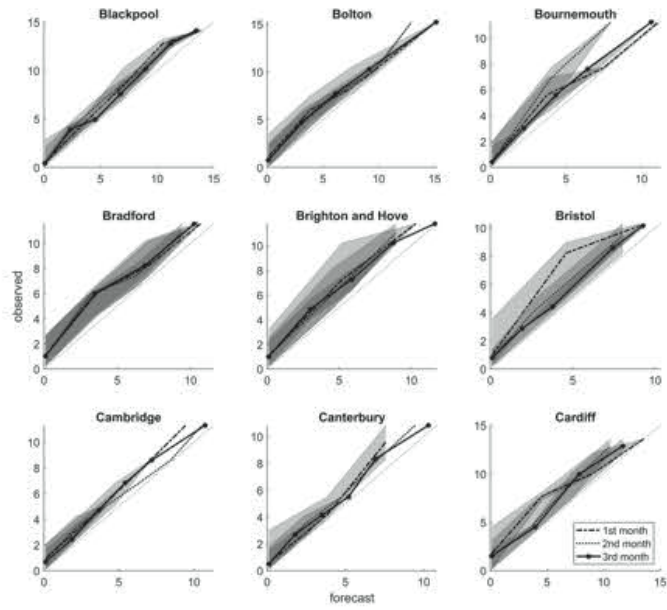
Figure 10: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 10-18.
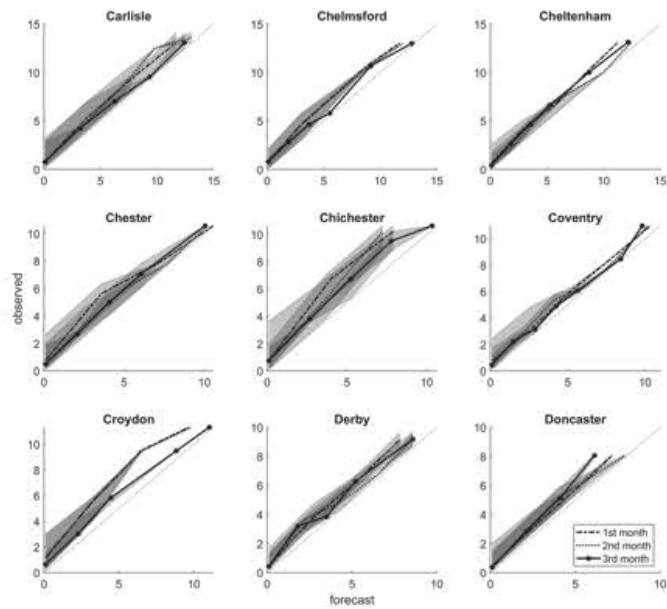

Figure 11: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 19-27.
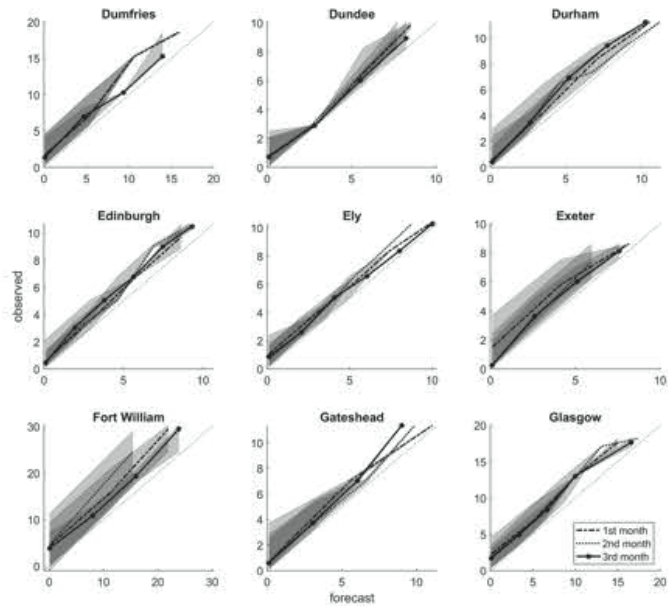
Figure 12: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 28-36.
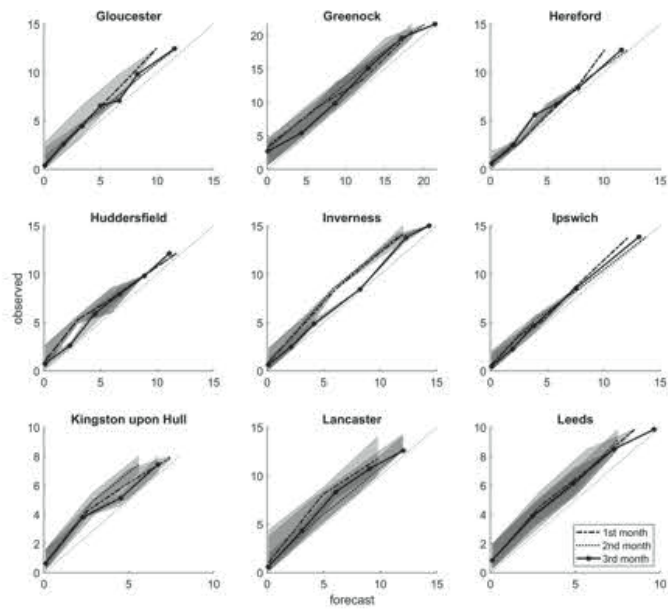

Figure 13: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 37-45.
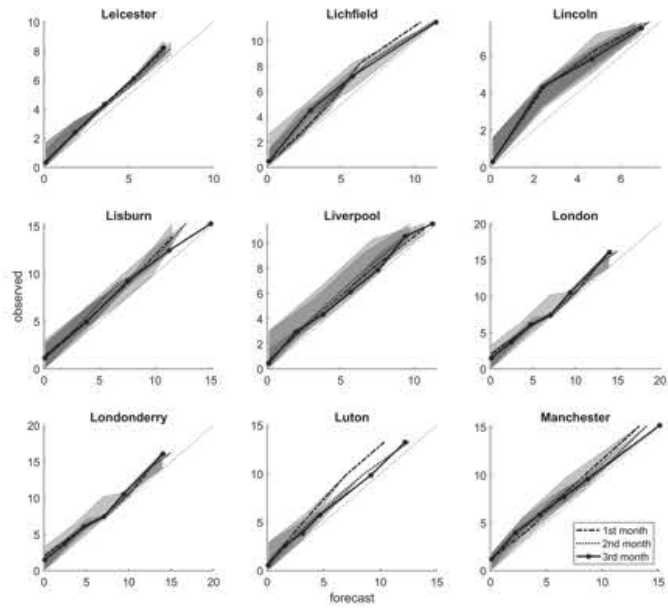
Figure 14: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 46-54.
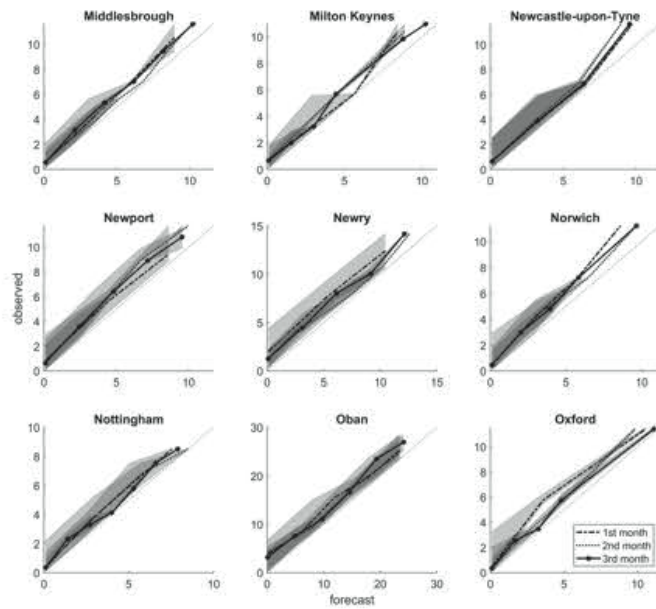

Figure 15: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 55-63.
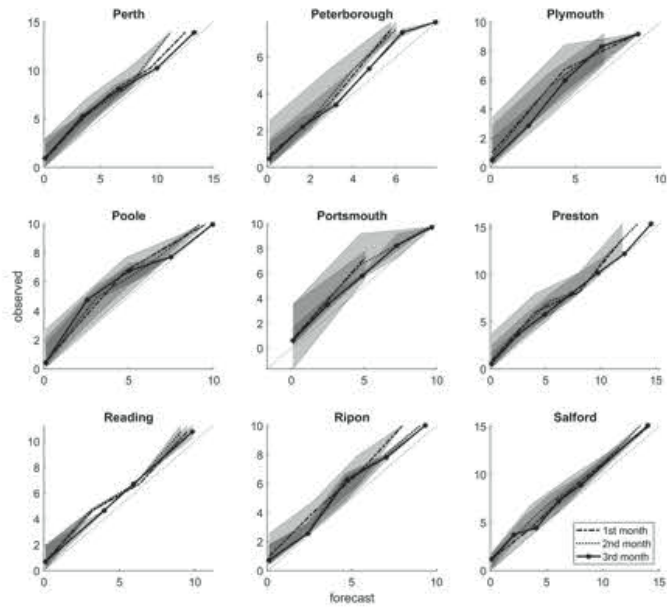
Figure 16: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 64-72.
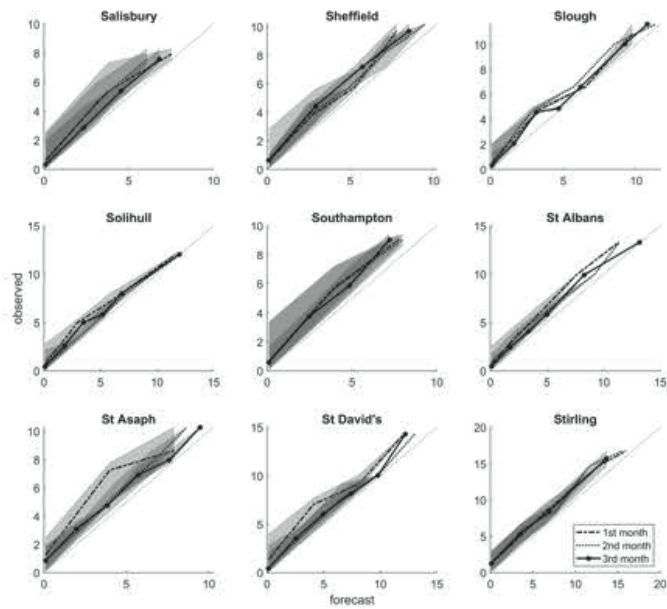

Figure 17: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 73-81.
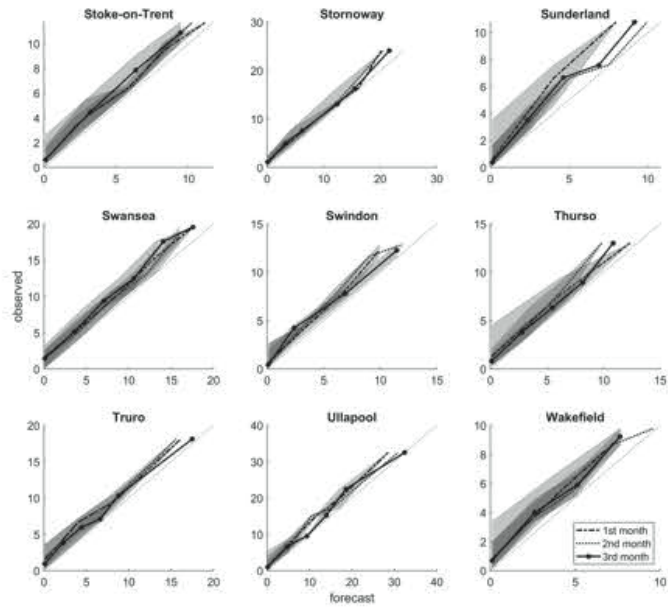
Figure 18: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2018, cities 82-90.
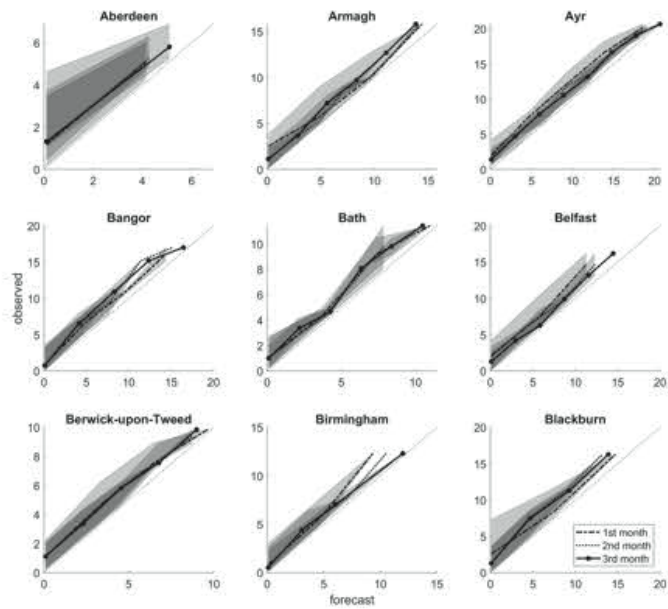

Figure 19: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 1-9.
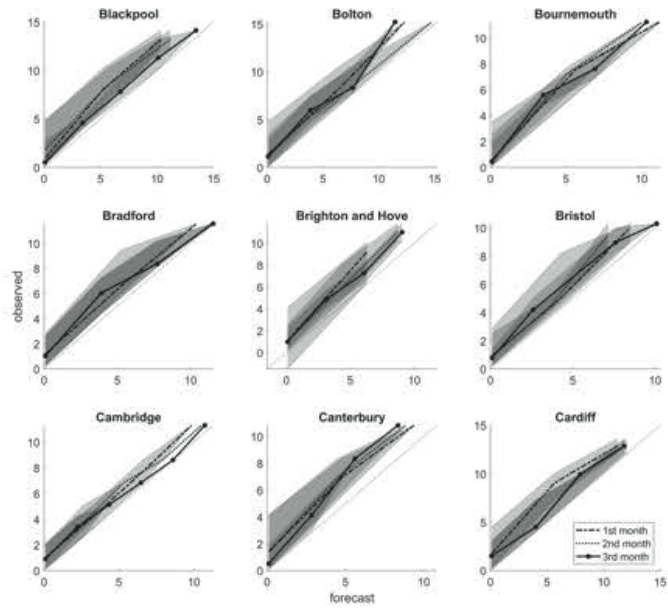
Figure 20: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 10-18.
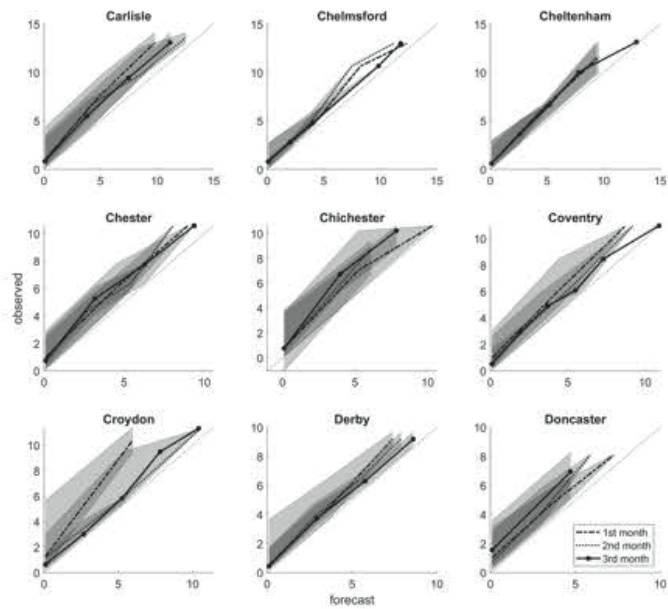

Figure 21: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 19-27.
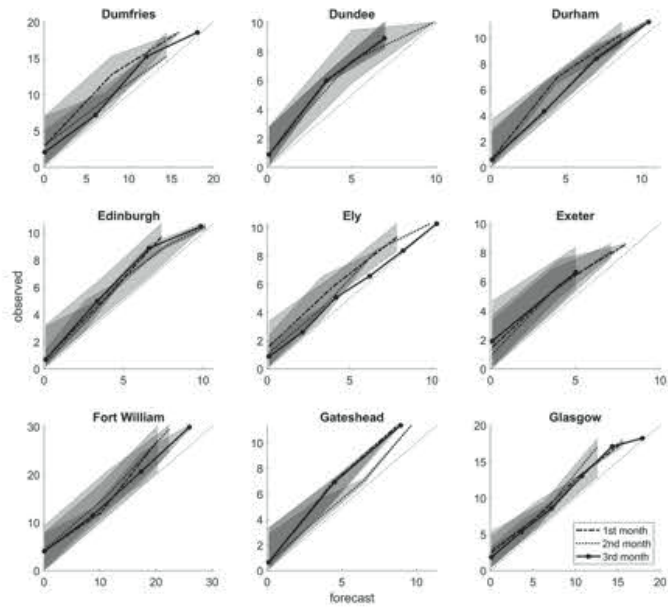
Figure 22: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 28-36.
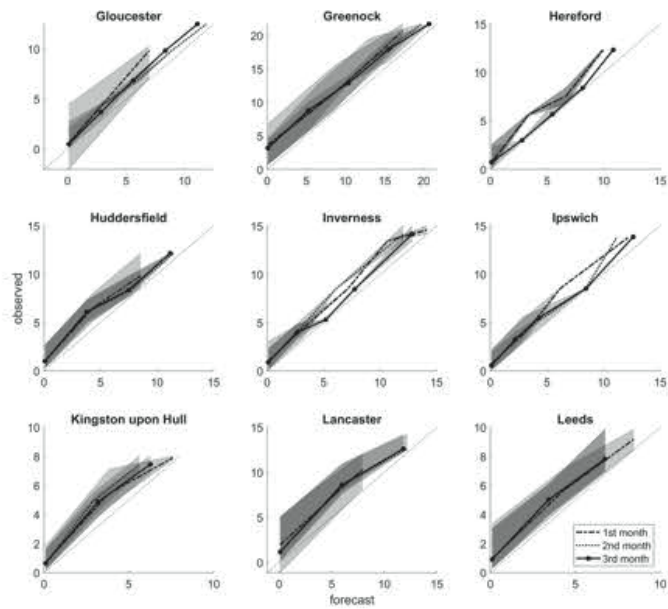

Figure 23: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 37-45.
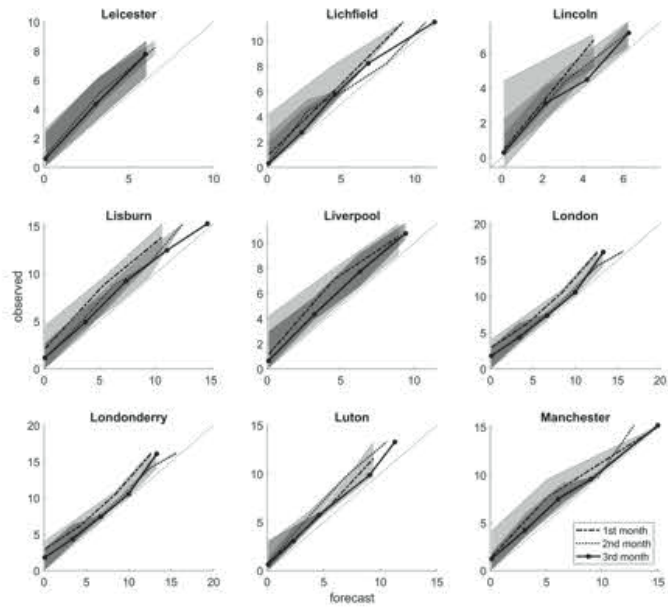
Figure 24: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 46-54.
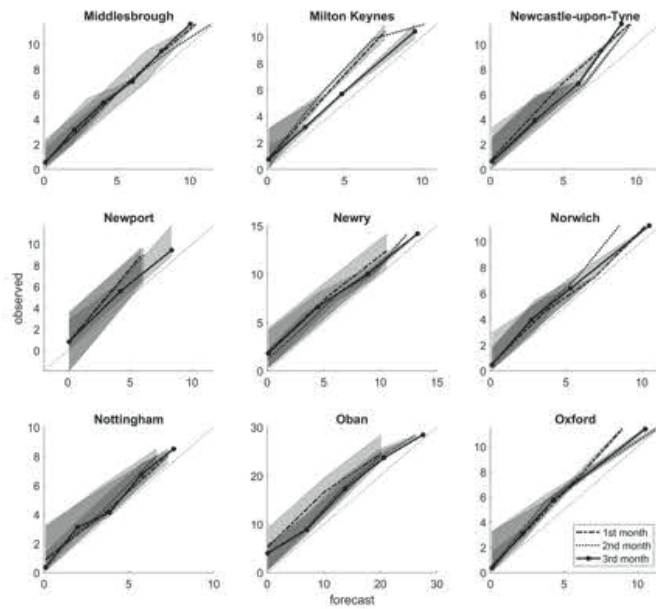

Figure 25: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 55-63.
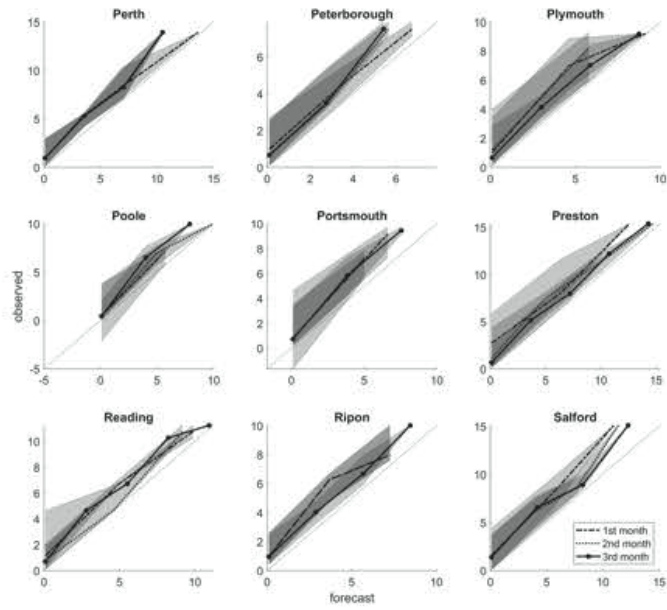
Figure 26: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 64-72.
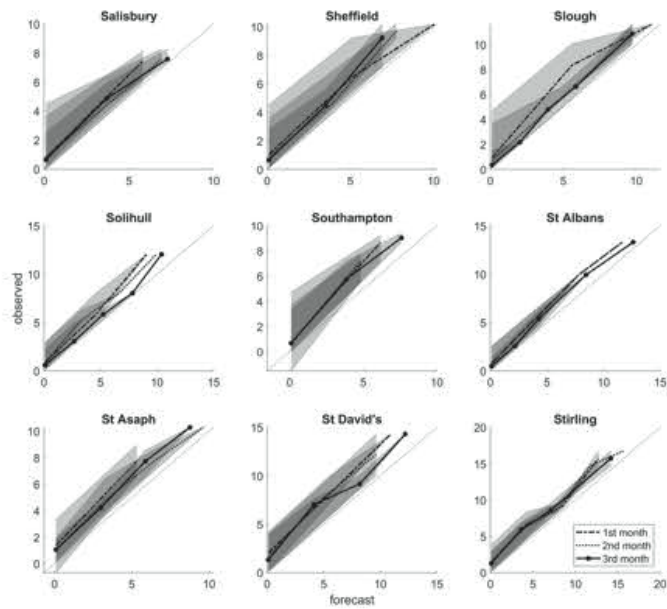

Figure 27: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 73-81.
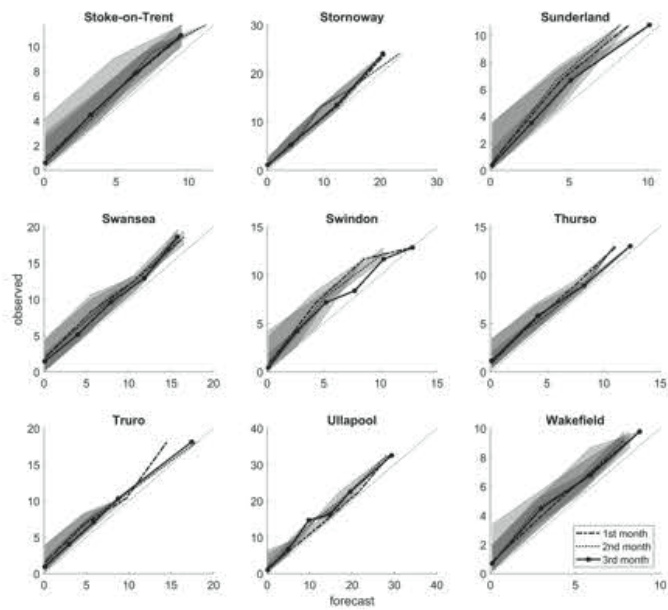
Figure 28: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2019, cities 82-90.
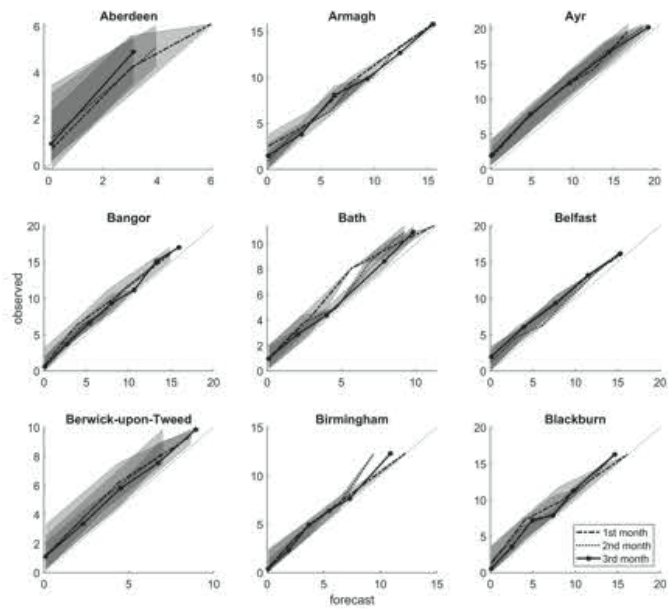

Figure 29: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 1-9.
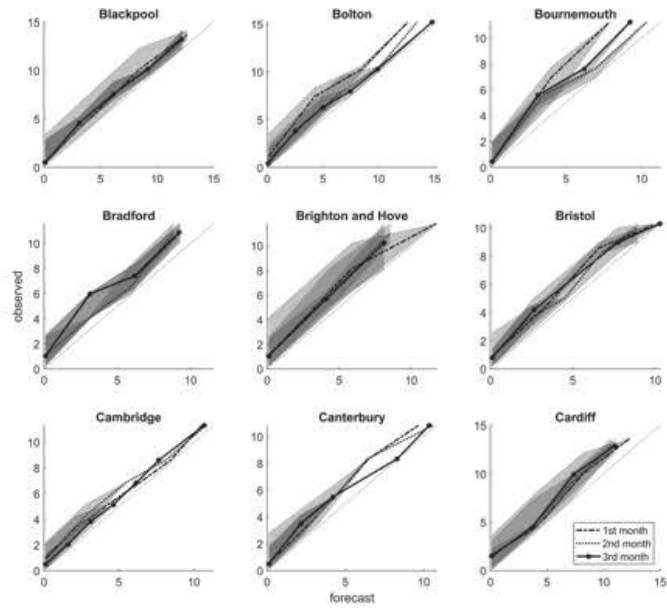
Figure 30: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 10-18.
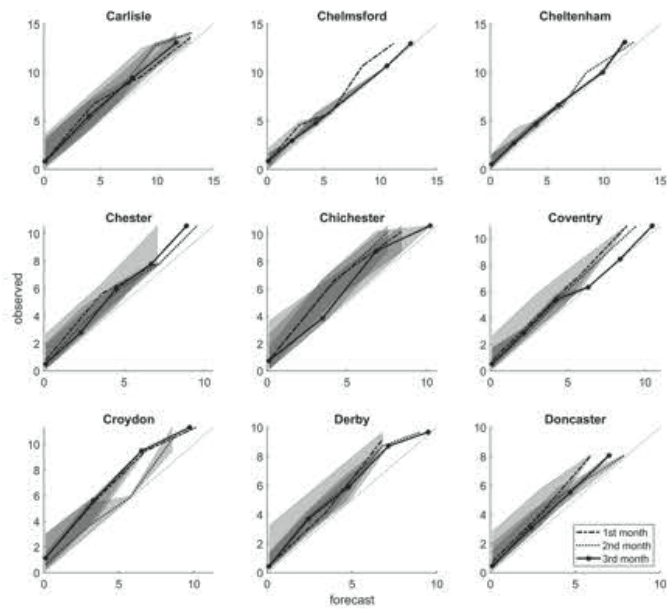

Figure 31: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 19-27.
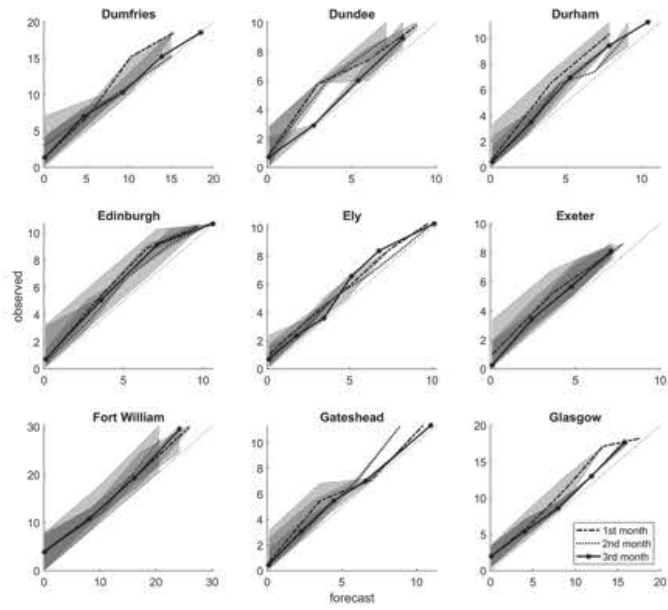
Figure 32: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 28-36.
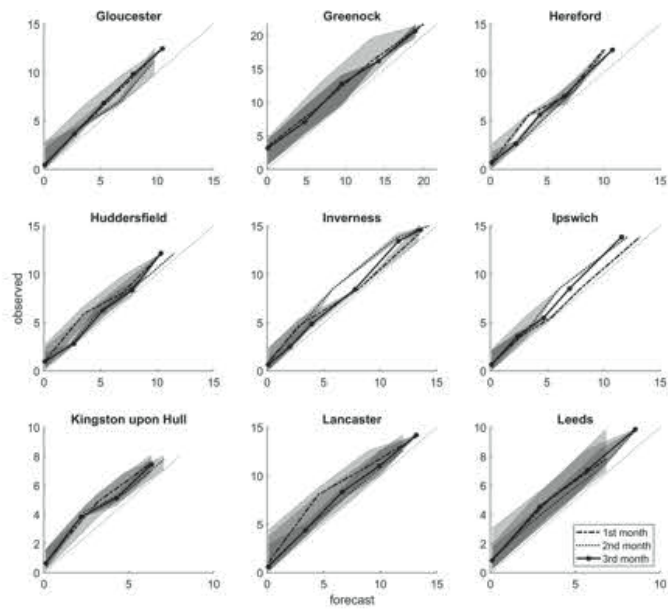

Figure 33: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 37-45.
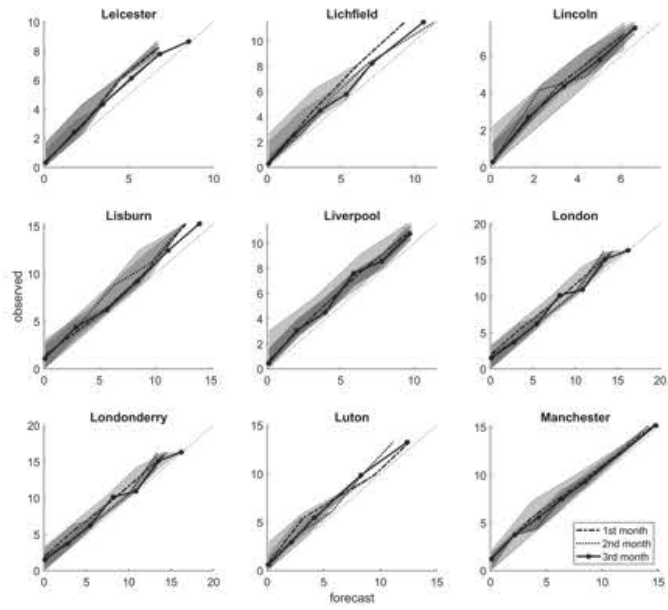
Figure 34: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 46-54.
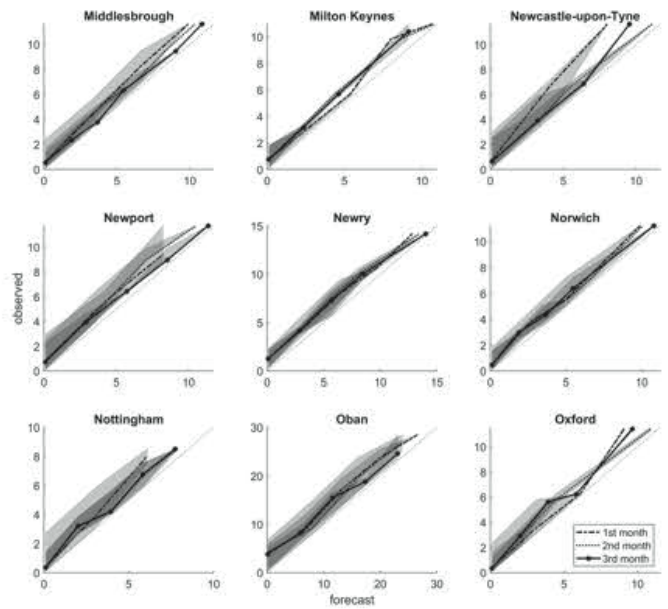

Figure 35: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 55-63.
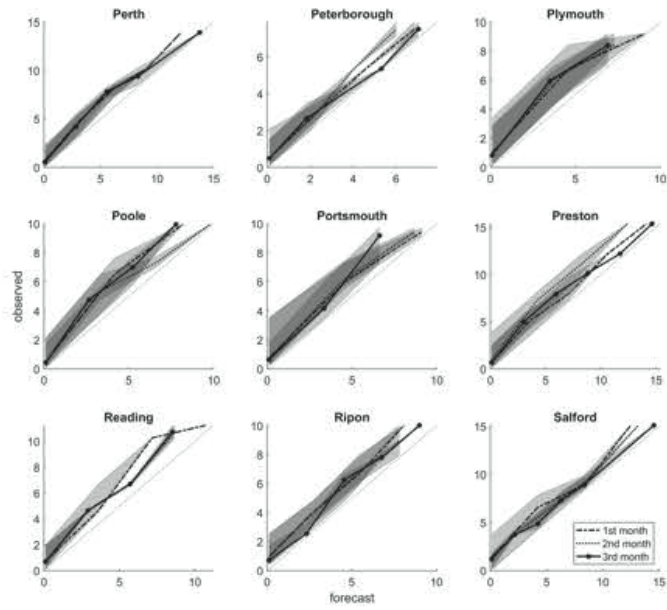
43

Figure 36: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 64-72.
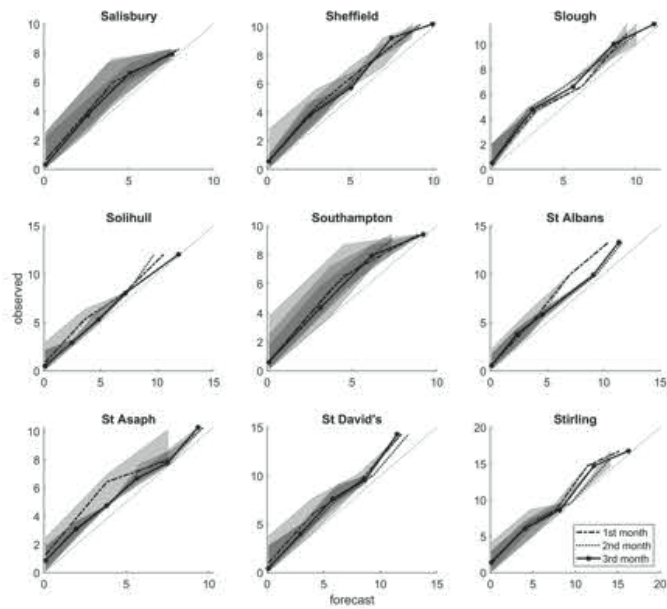

Figure 37: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 73-81.
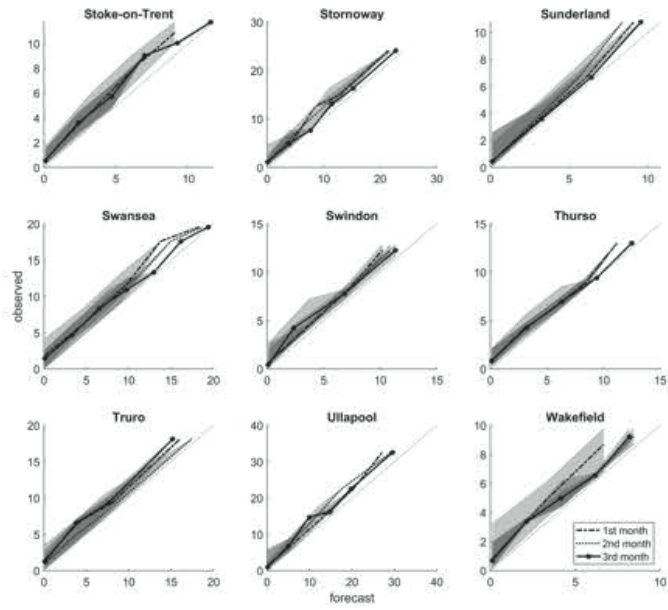
Figure 38: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2020, cities 82-90.
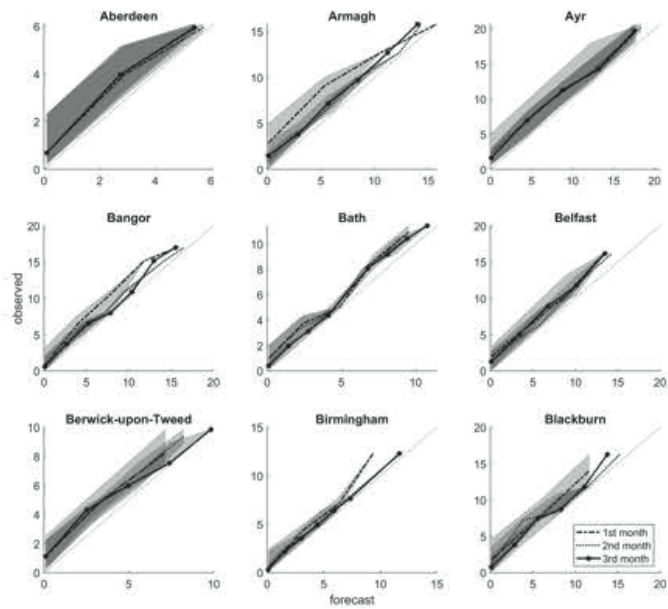

Figure 39: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 1-9.
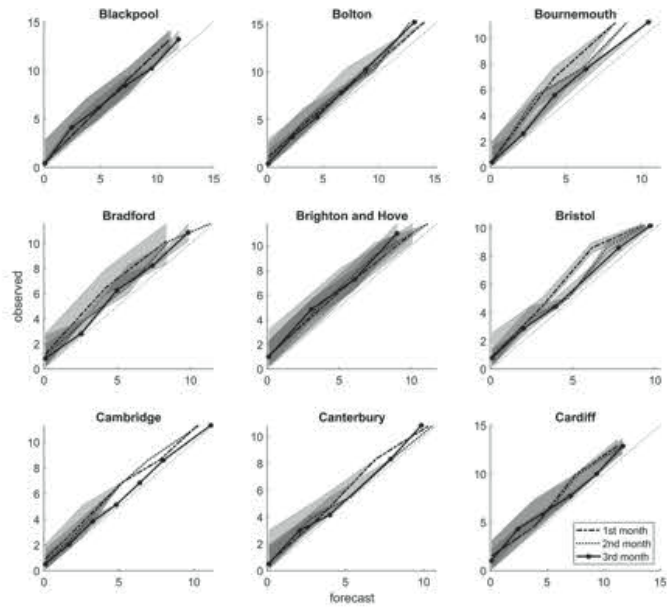
Figure 40: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 10-18.
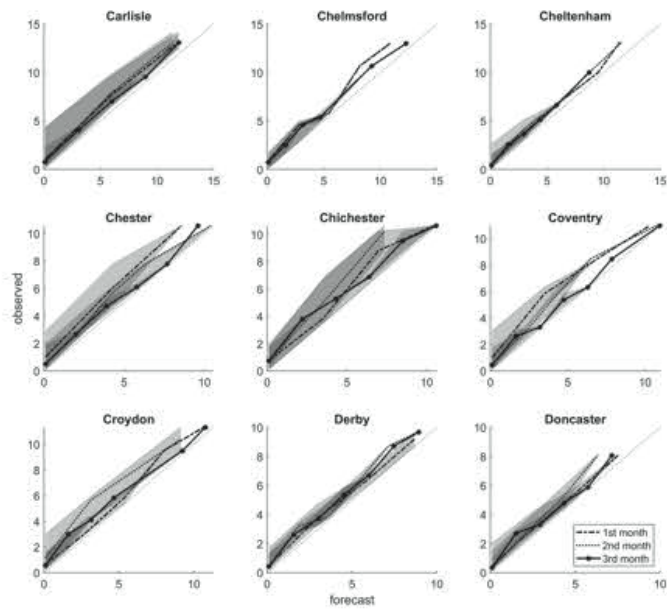

Figure 41: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 19-27.
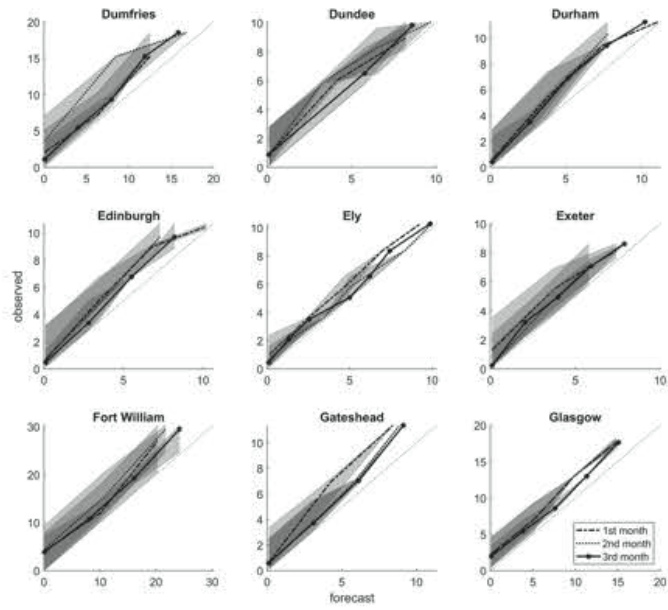
Figure 42: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 28-36.
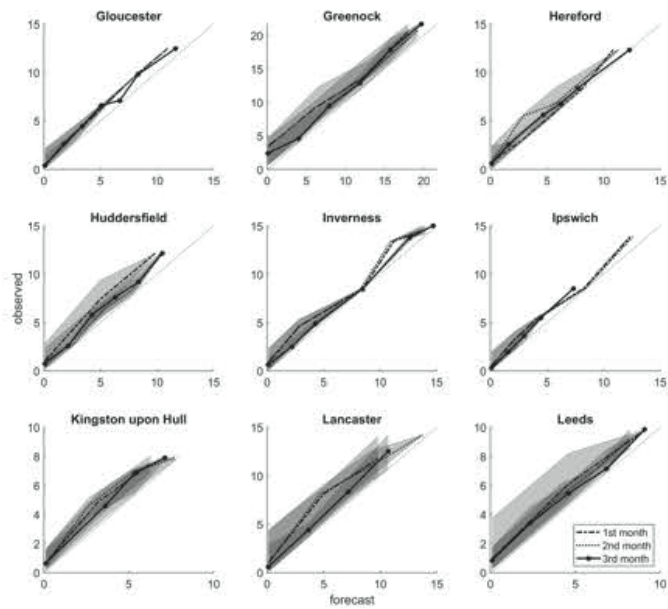

Figure 43: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 37-45.
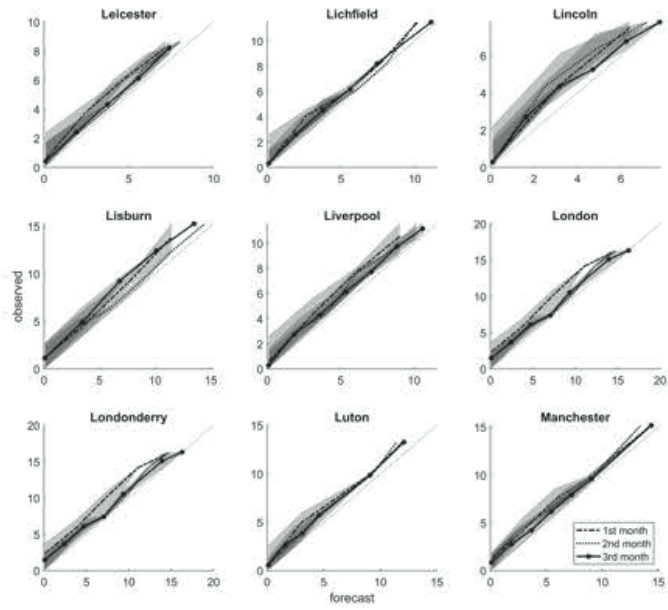
Figure 44: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 46-54.
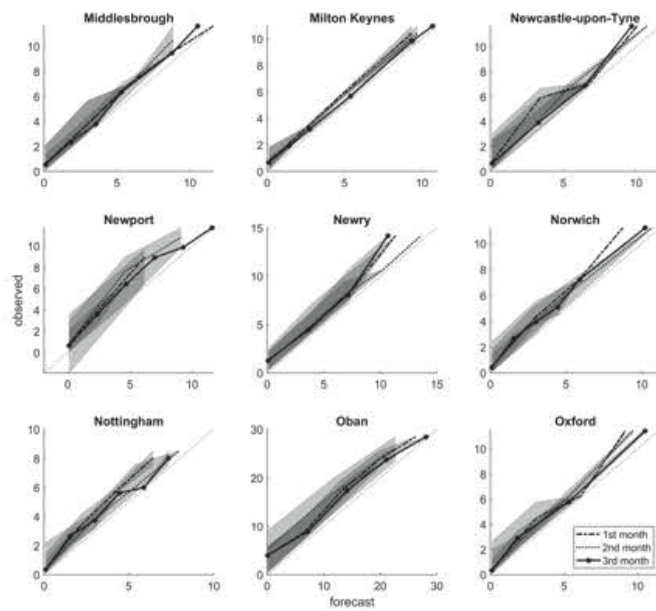

Figure 45: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 55-63.
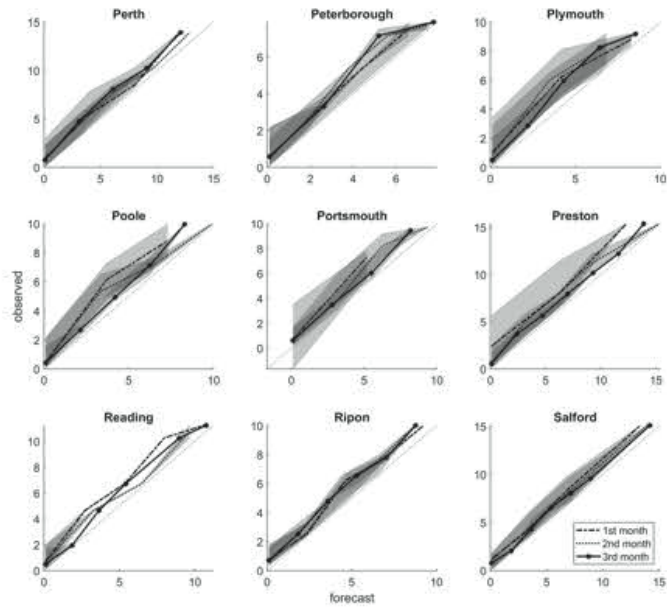
Figure 46: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 64-72.
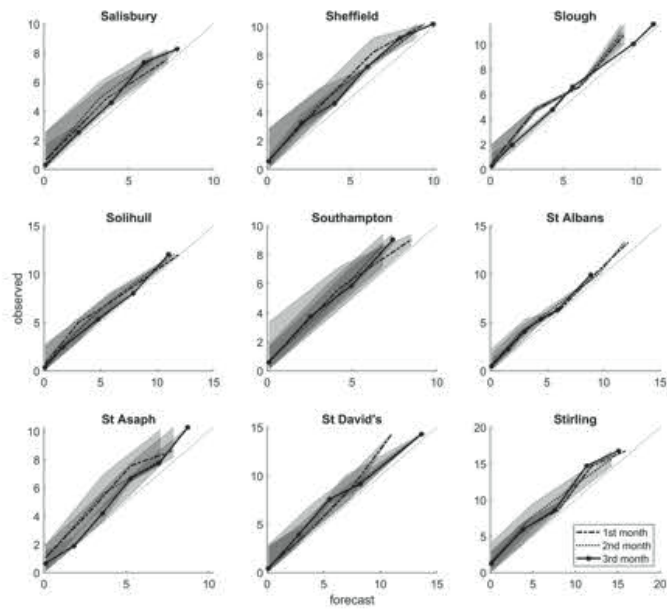

Figure 47: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 73-81.
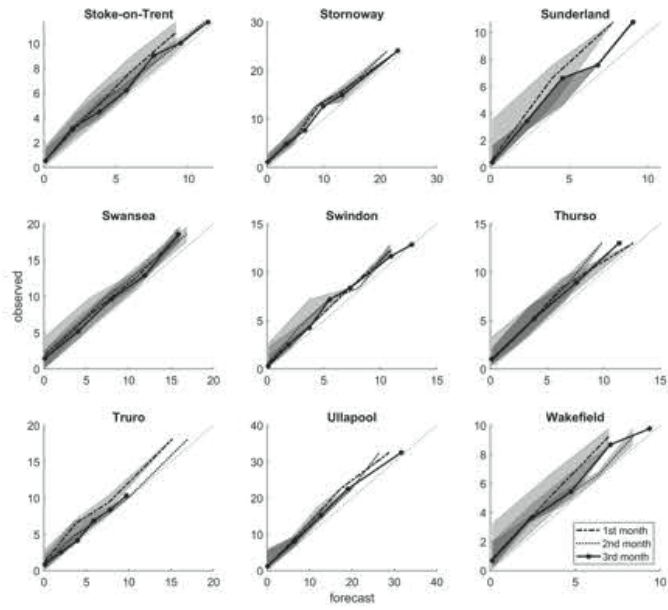
Figure 48: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, January-March 2021, cities 82-90.

Appendix IV. Conditional Quantile Plots of Late Summer Data in 90 UK Cities

This section contains the figures for the 90 UK cities in the years 2018-2022 in July-September Weather Logistics Ltd forecasts compared with the averaged ERA5 data of the corresponding months.
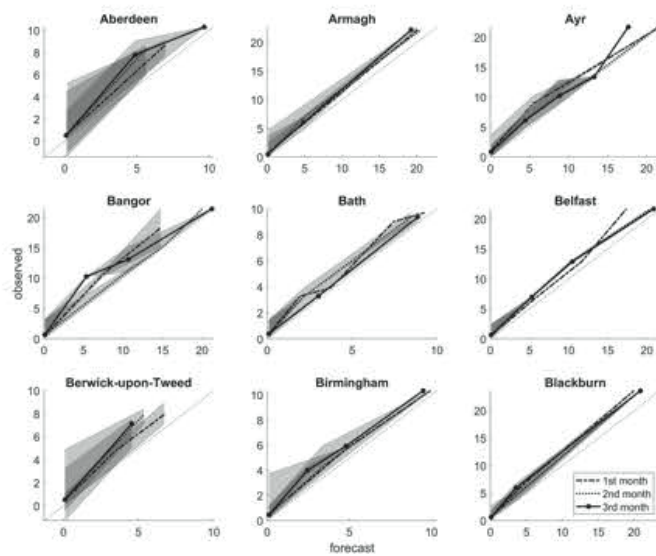
Figure 49: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 1-9.
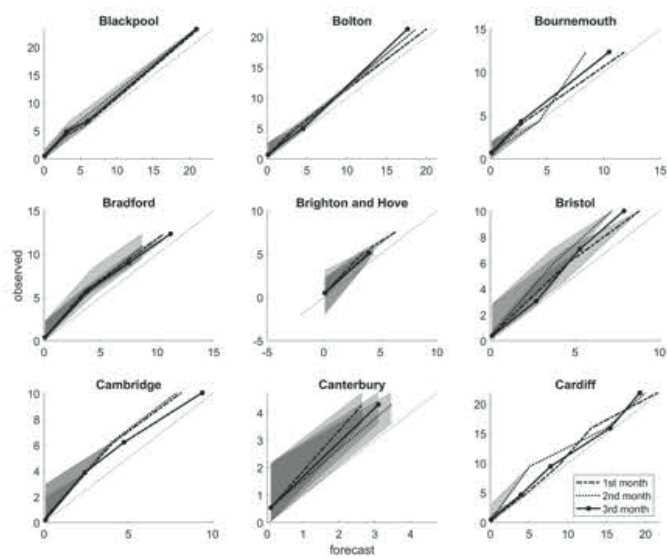

Figure 50: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 10-18.
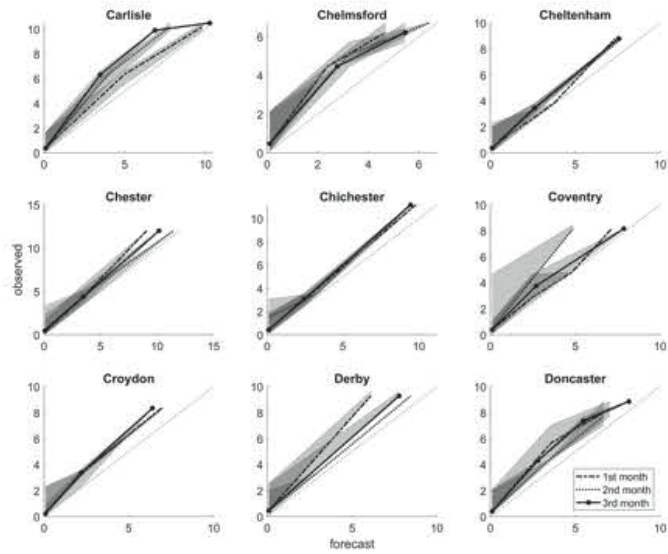
Figure 51: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 19-27.
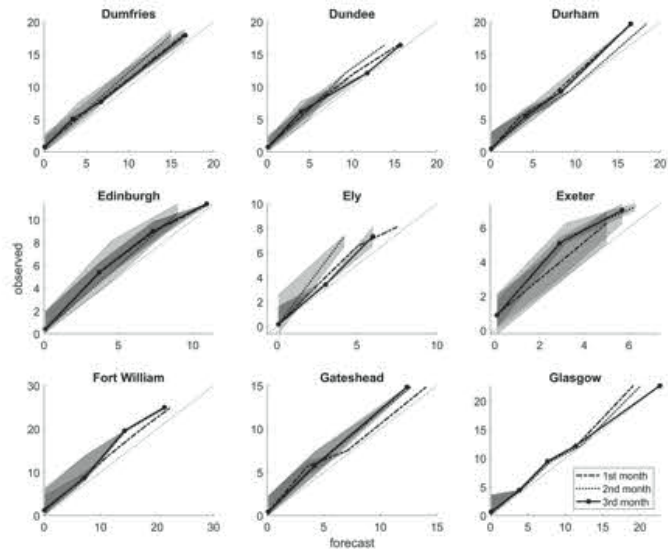

Figure 52: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 28-36.
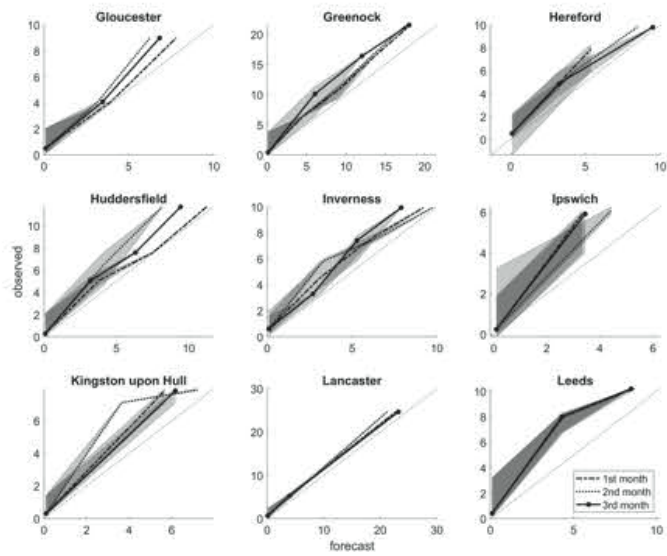
Figure 53: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 37-45.
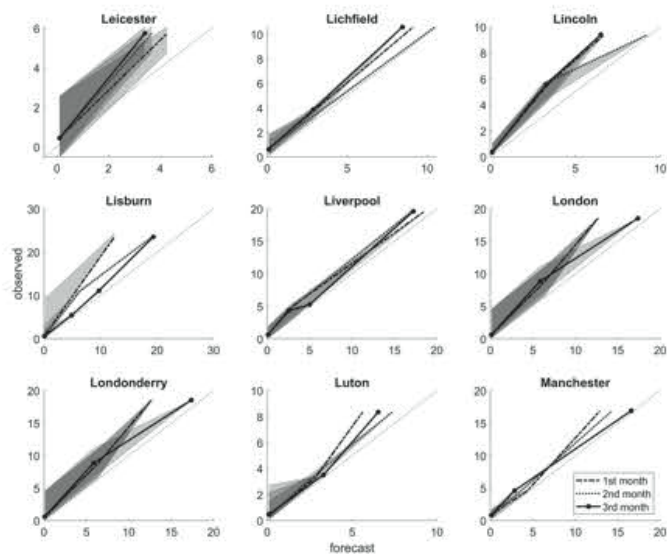

Figure 54: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 46-54.
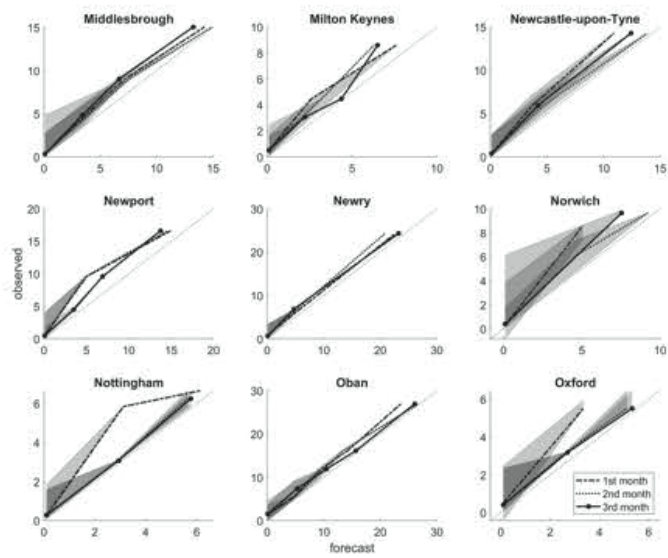
Figure 55: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 55-63.
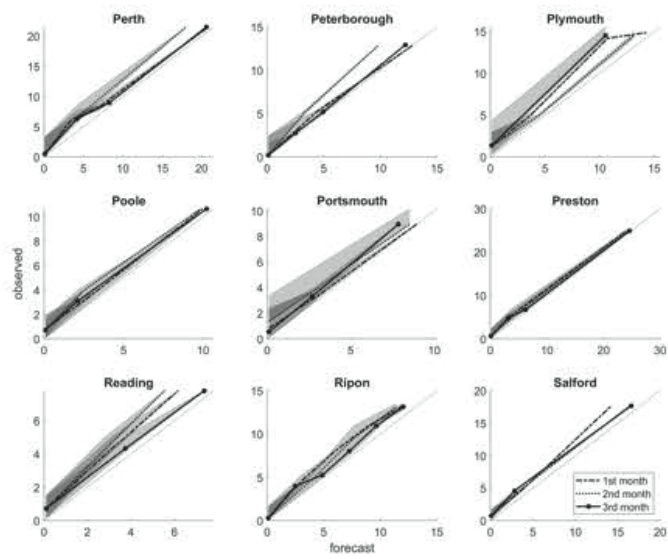

Figure 56: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 64-72.
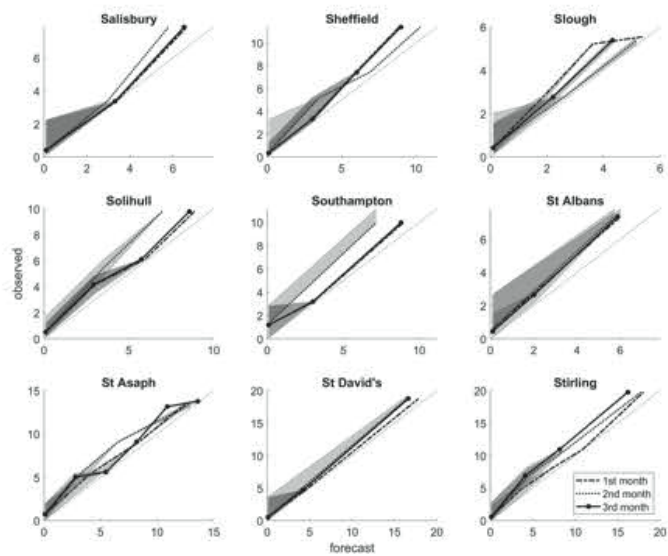
Figure 57: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 73-81.
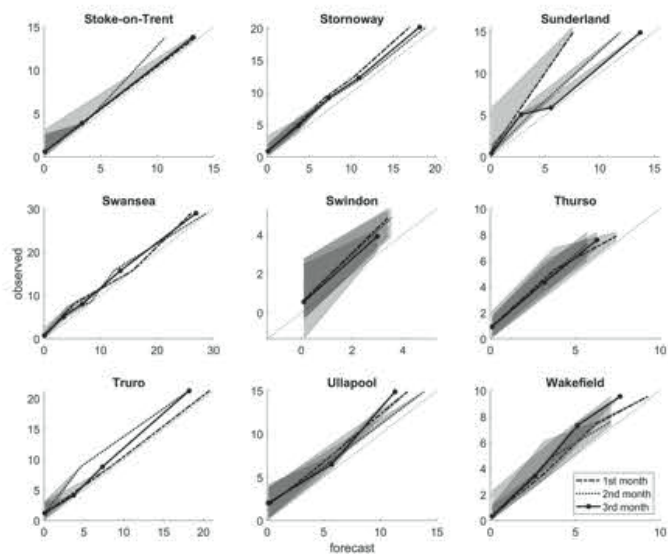

Figure 58: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2018, cities 82-90.
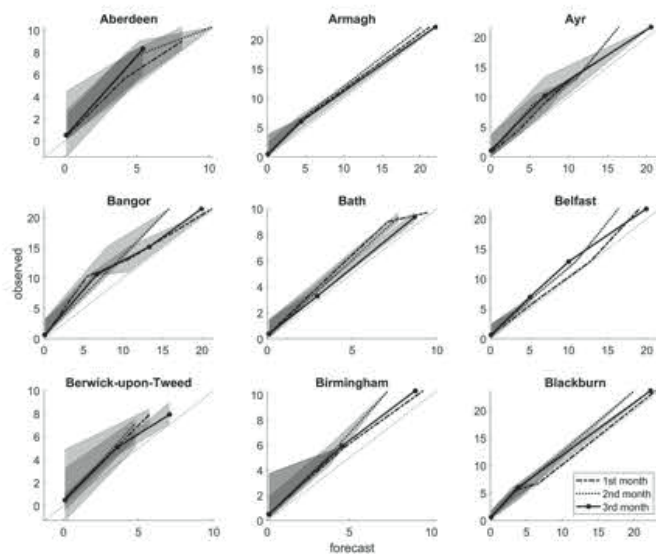
Figure 59: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 1-9.
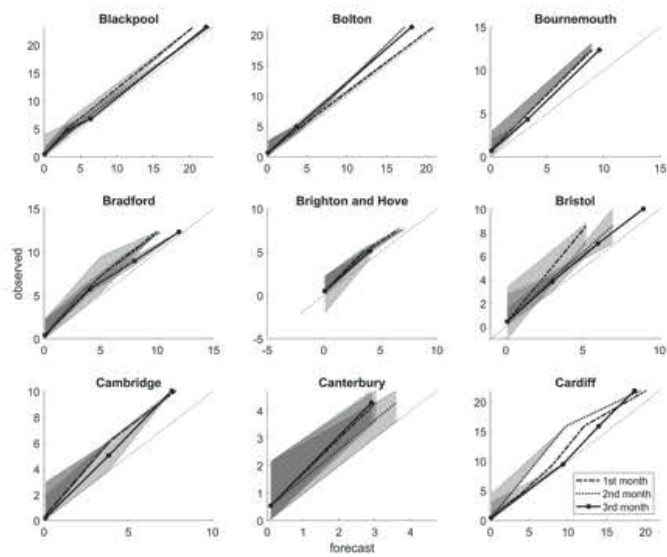

Figure 60: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 10-18.
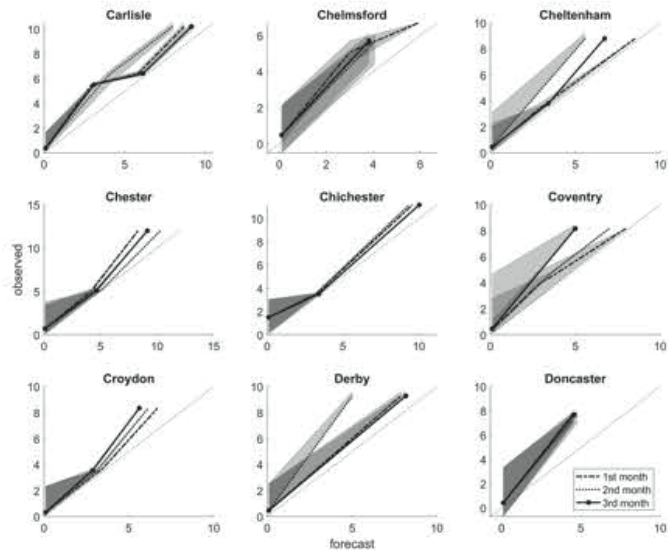
Figure 61: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 19-27.
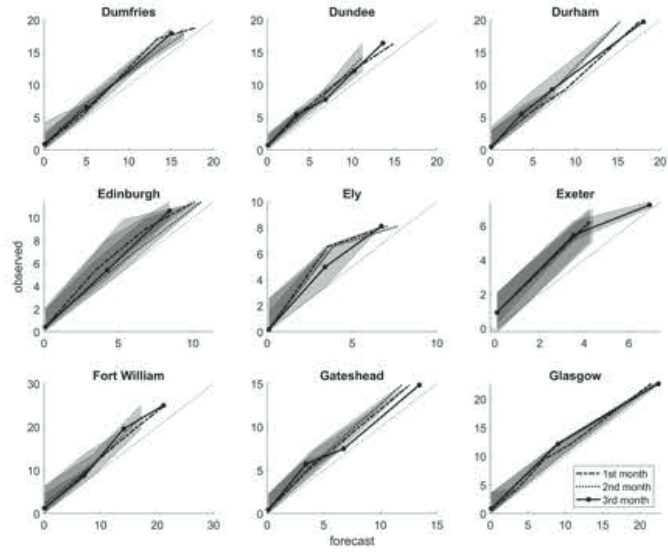

Figure 62: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 28-36.
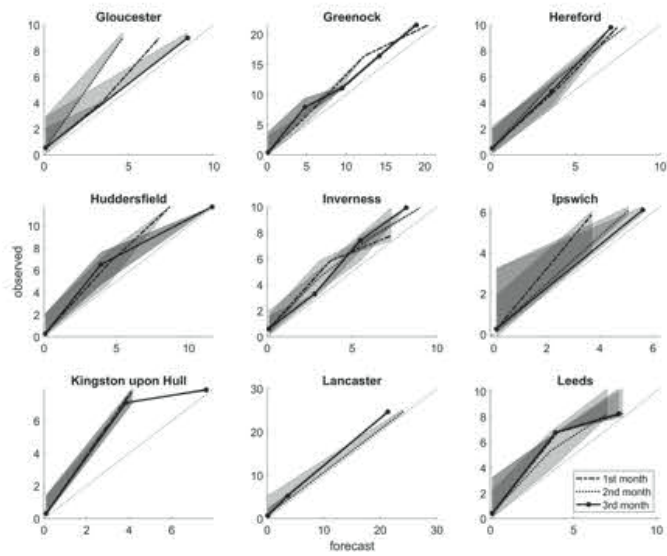
Figure 63: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 37-45.
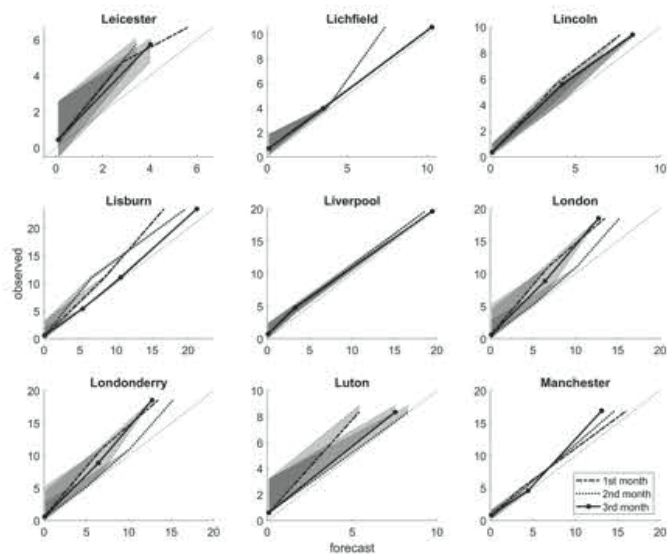

Figure 64: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 46-54.
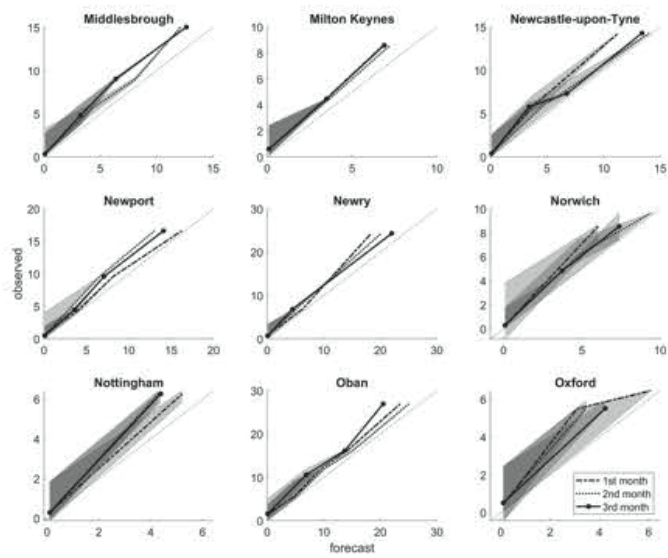
Figure 65: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 55-63.
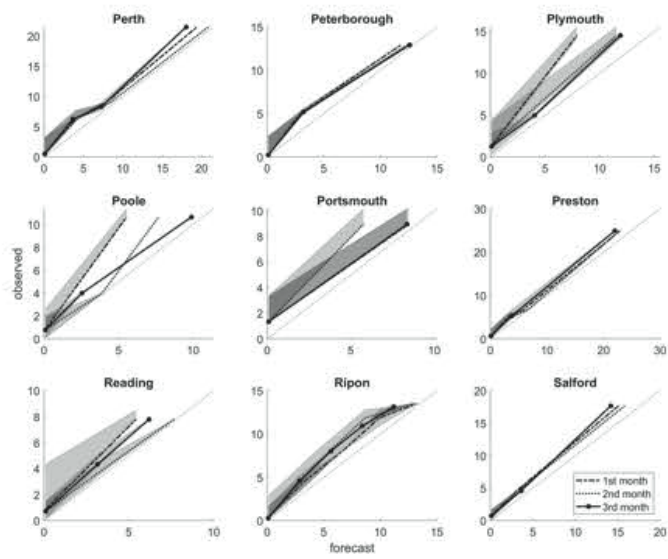

Figure 66: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 64-72.
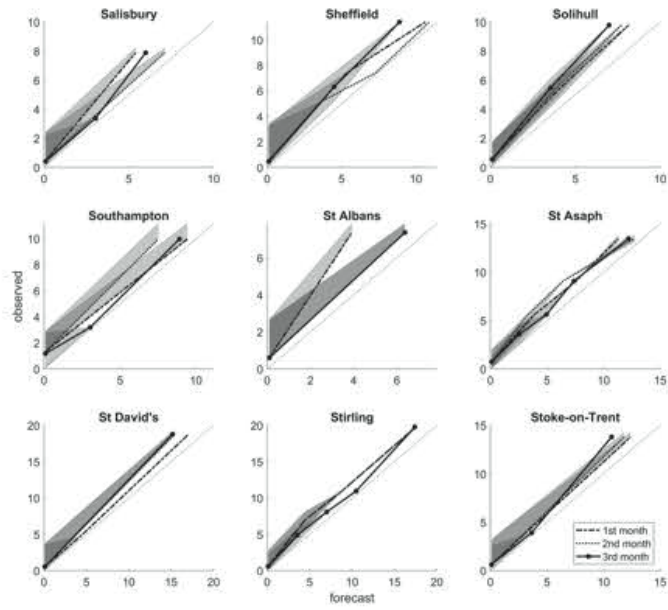
Figure 67: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 73-81.
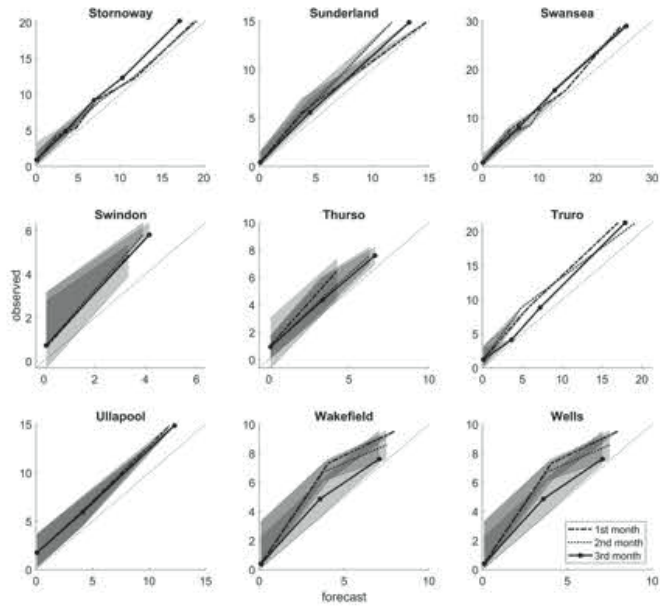

Figure 68: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2019, cities 82-90.
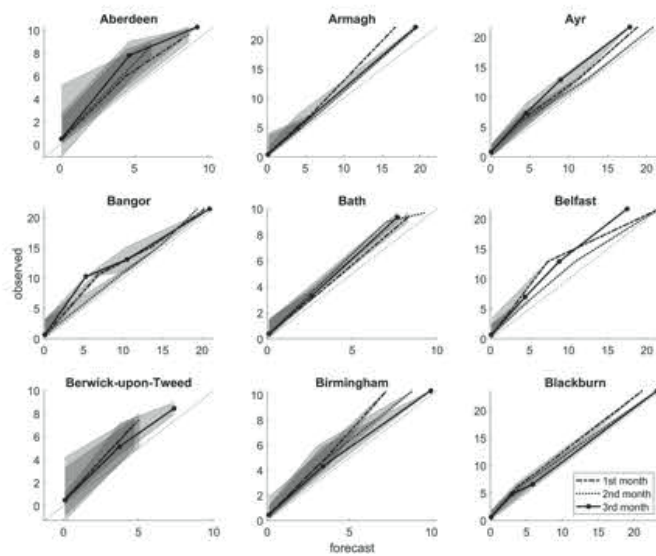
Figure 69: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 1-9.
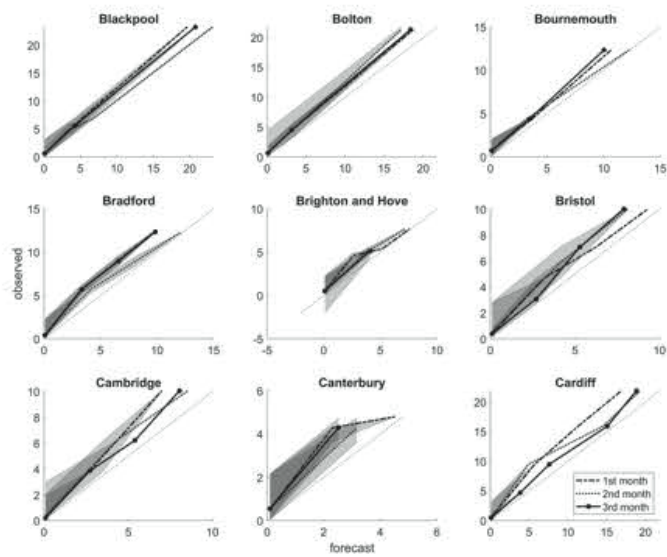

Figure 70: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 10-18.
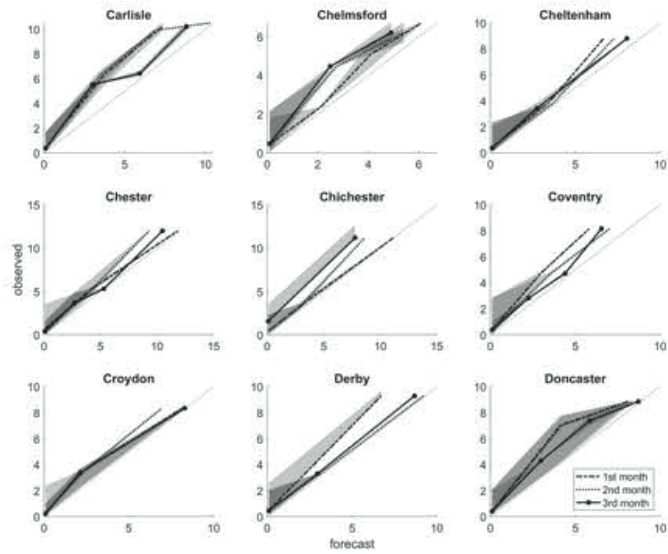
Figure 71: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 19-27.
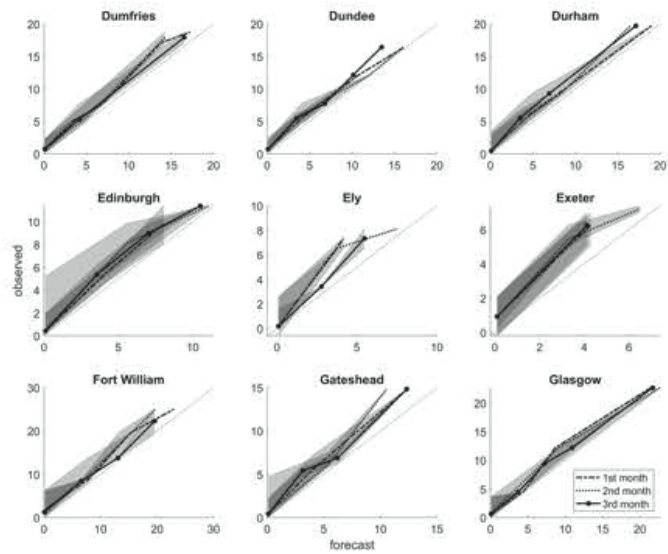

Figure 72: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 28-36.
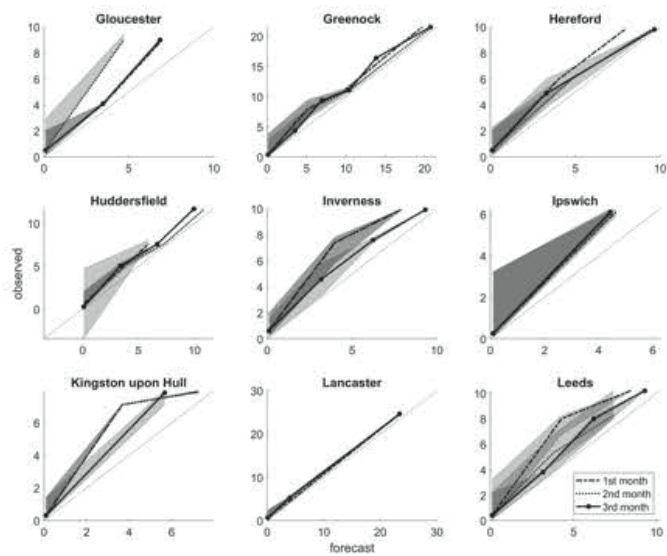
Figure 73: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 37-45.
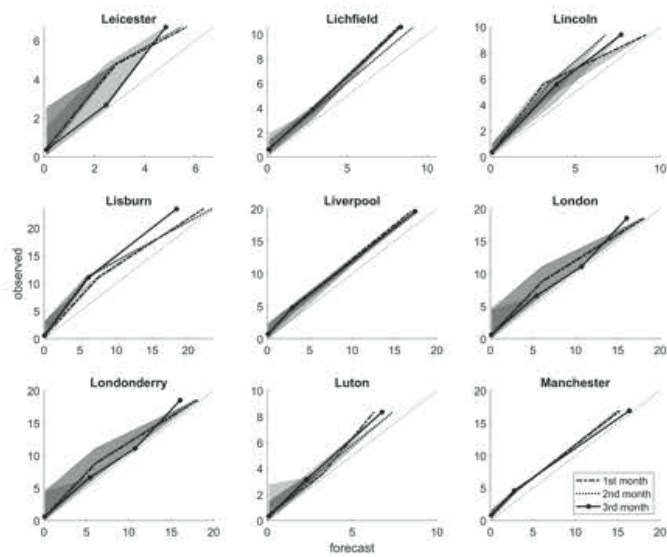

Figure 74: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 46-54.
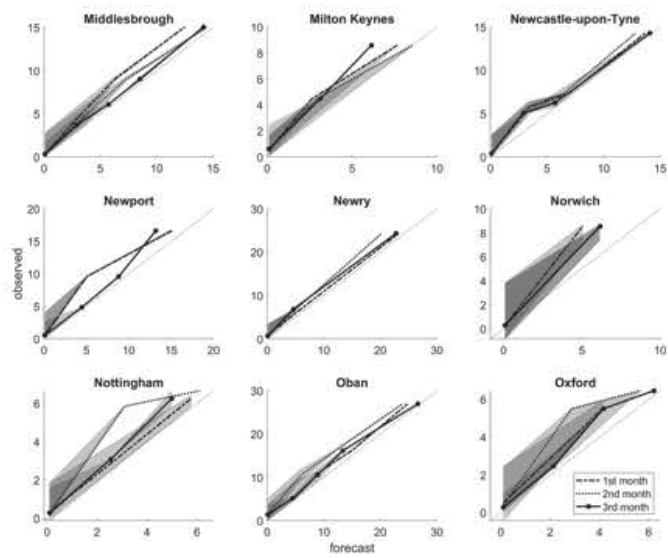
Figure 75: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 55-63.
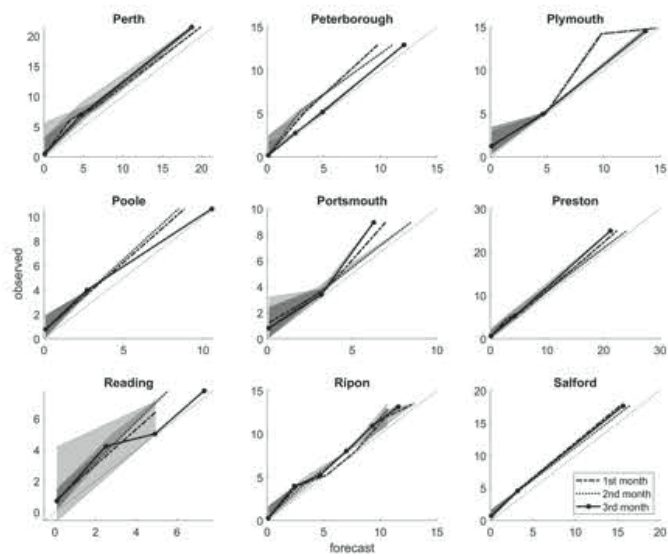

Figure 76: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 64-72.
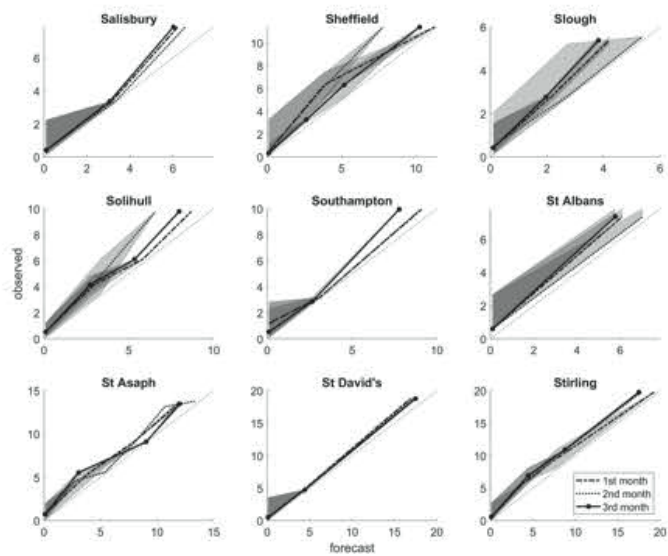
Figure 77: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 73-81.
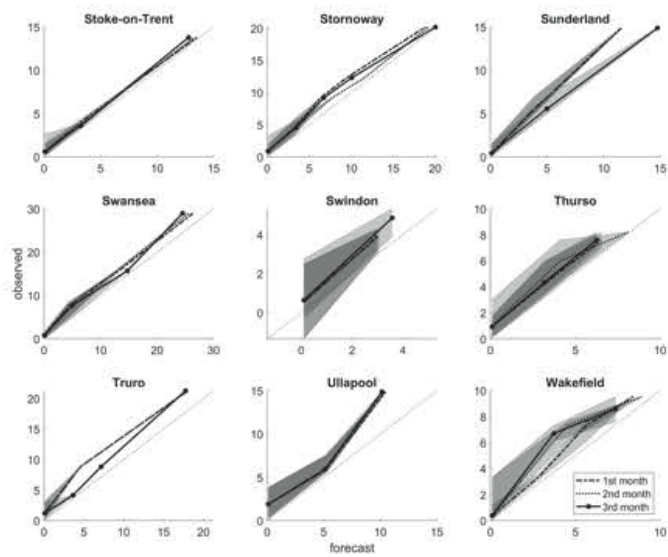

Figure 78: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2020, cities 82-90.
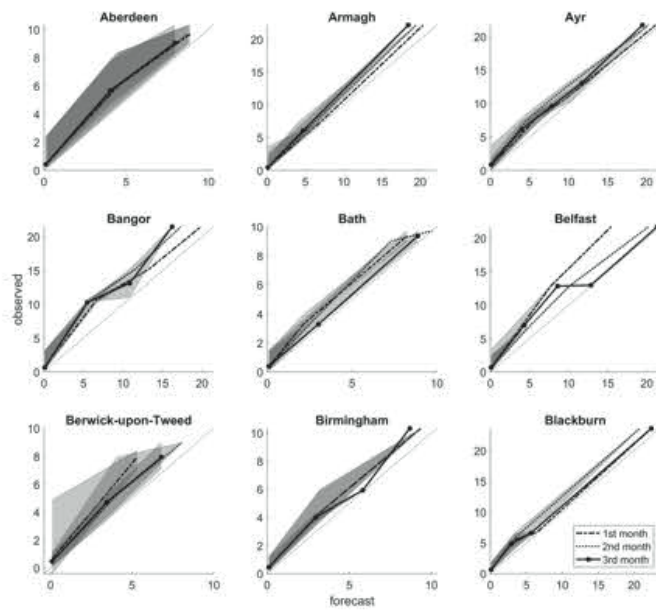
Figure 79: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 1-9.
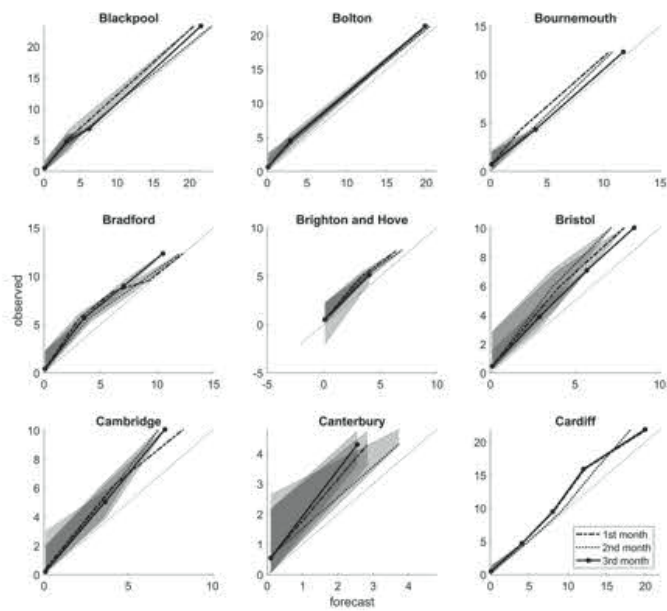

Figure 80: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 10-18.
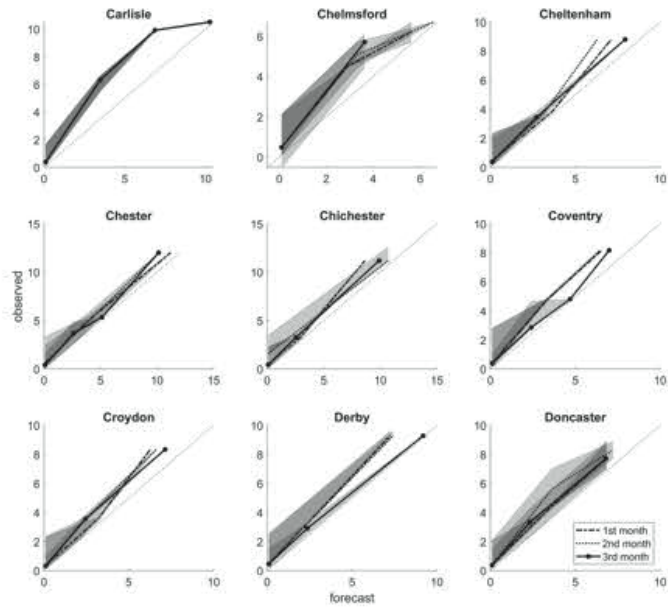
Figure 81: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 19-27.
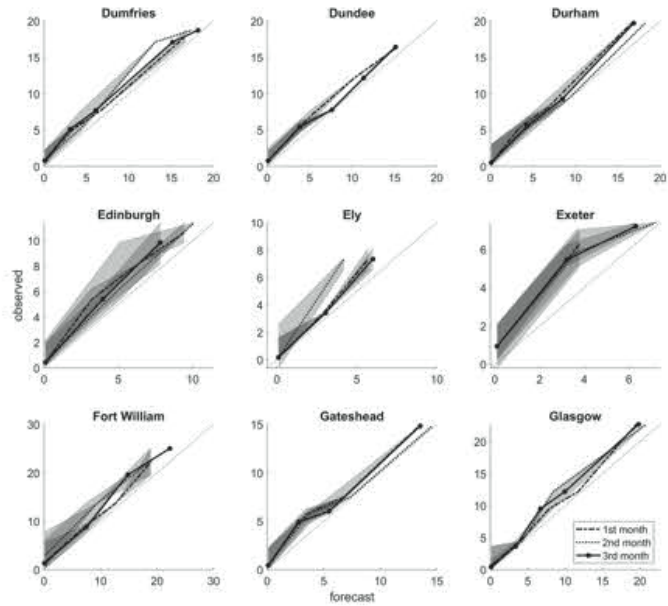

Figure 82: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 28-36.
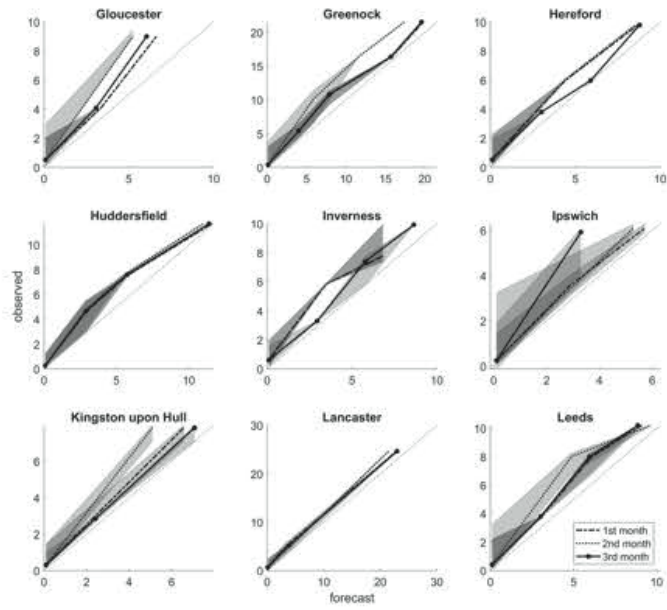
Figure 83: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 37-45.
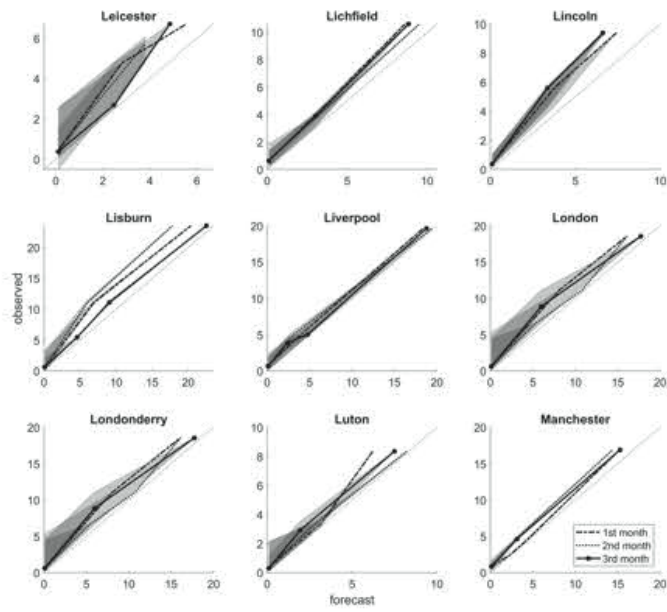

Figure 84: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 46-54.
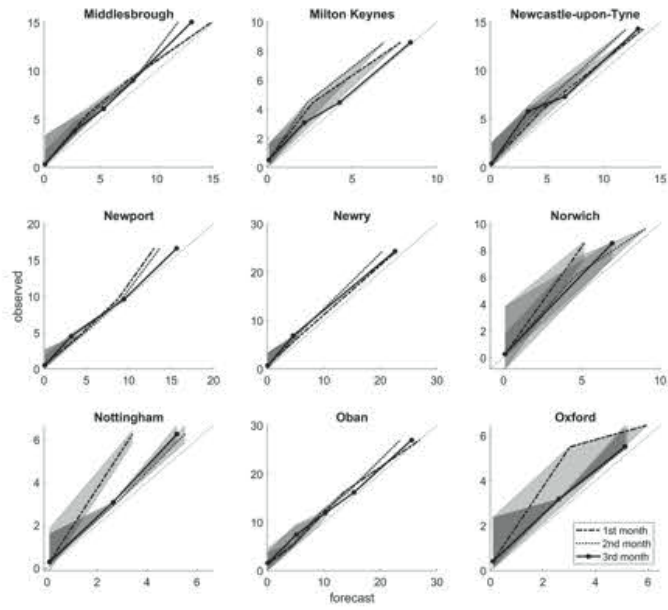
Figure 85: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 55-63.
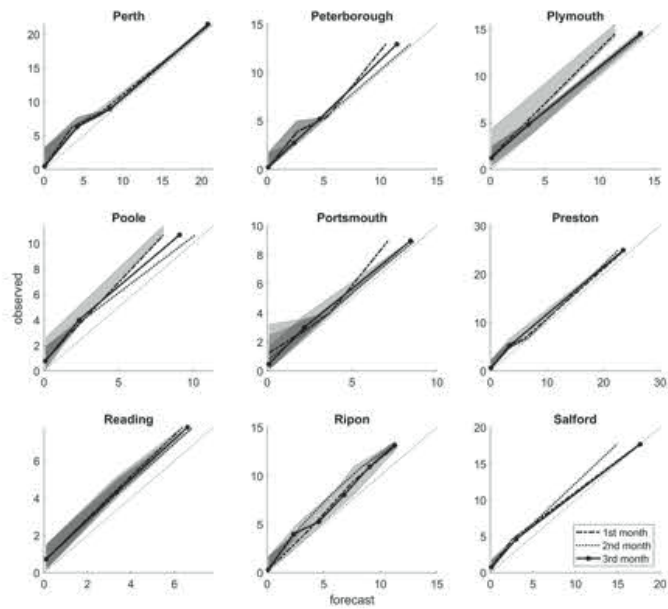

Figure 86: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 64-72.
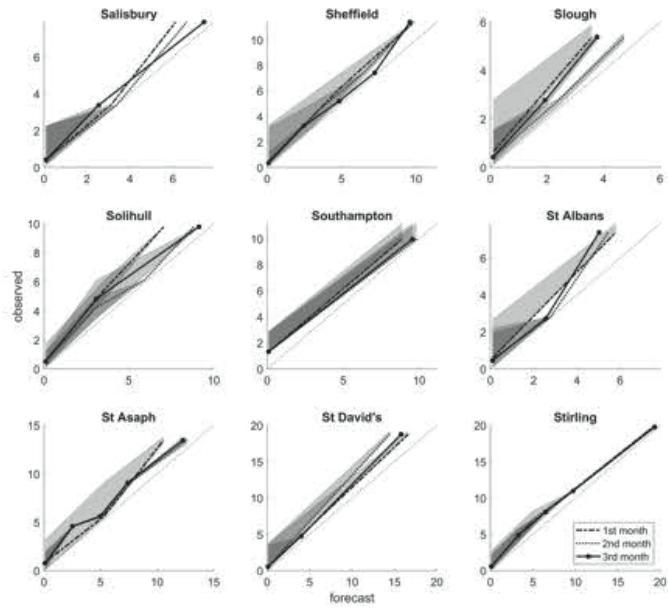
Figure 87: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 73-81.
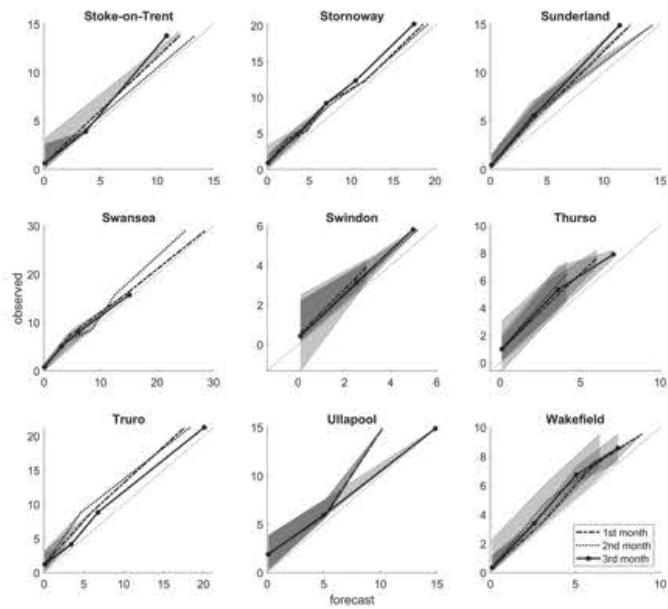

Figure 88: Conditional quantile plots for forecast verification of Weather Logistics Ltd forecast versus ERA5 data, July-September 2021, cities 82-90.