Covid Plots

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10/31/2020

1   Introduction

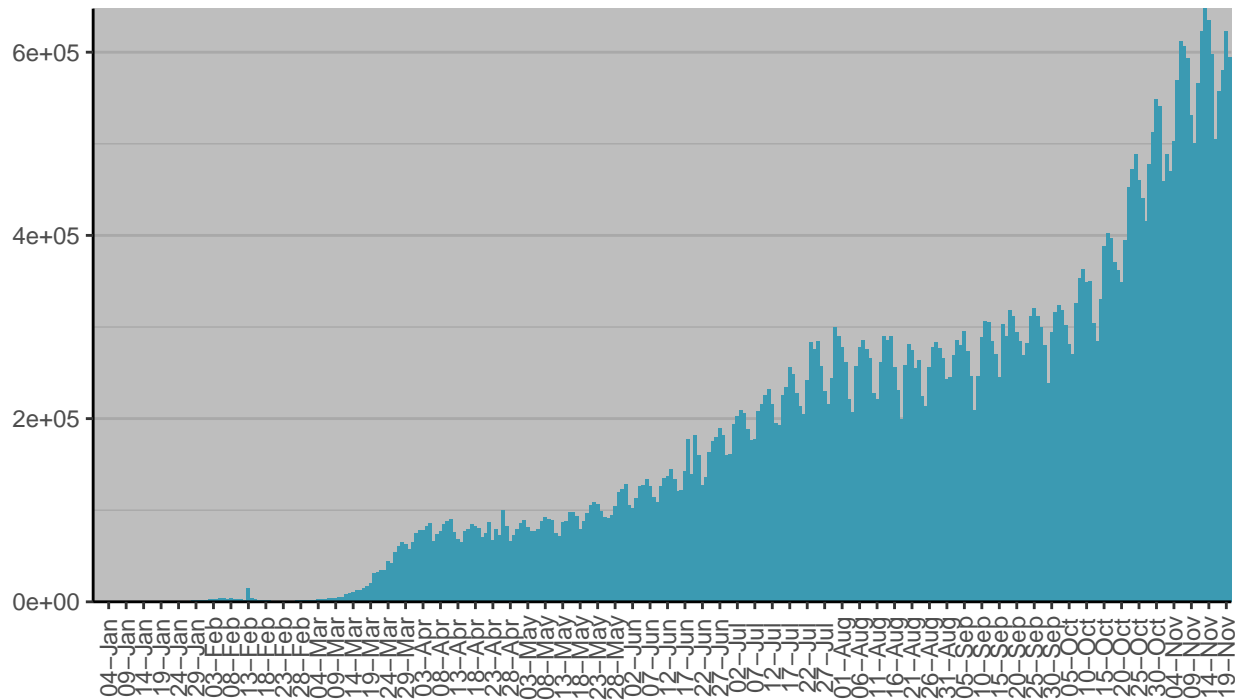Global Total =56,984,774 as at November 20, 2020

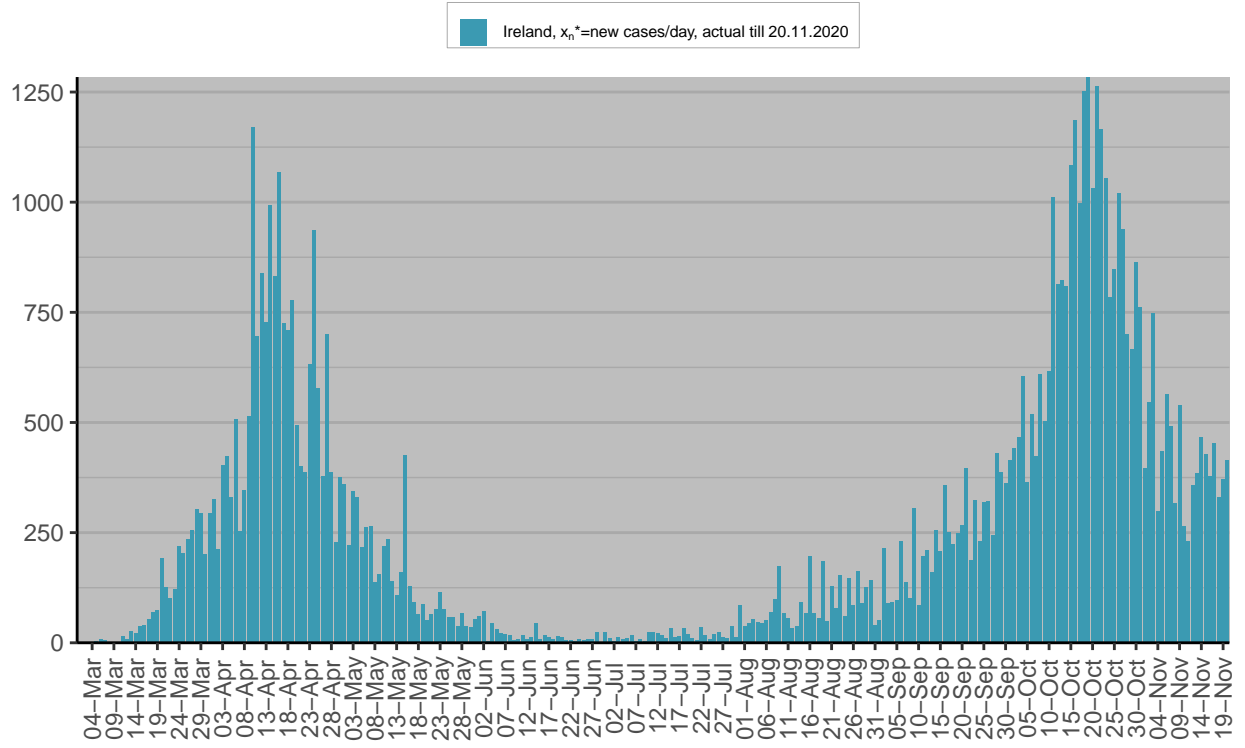

Figure 1:   Daily cases Globally to date

Figure 2: x-diagram for Ireland: the numbers of actually registered daily cases
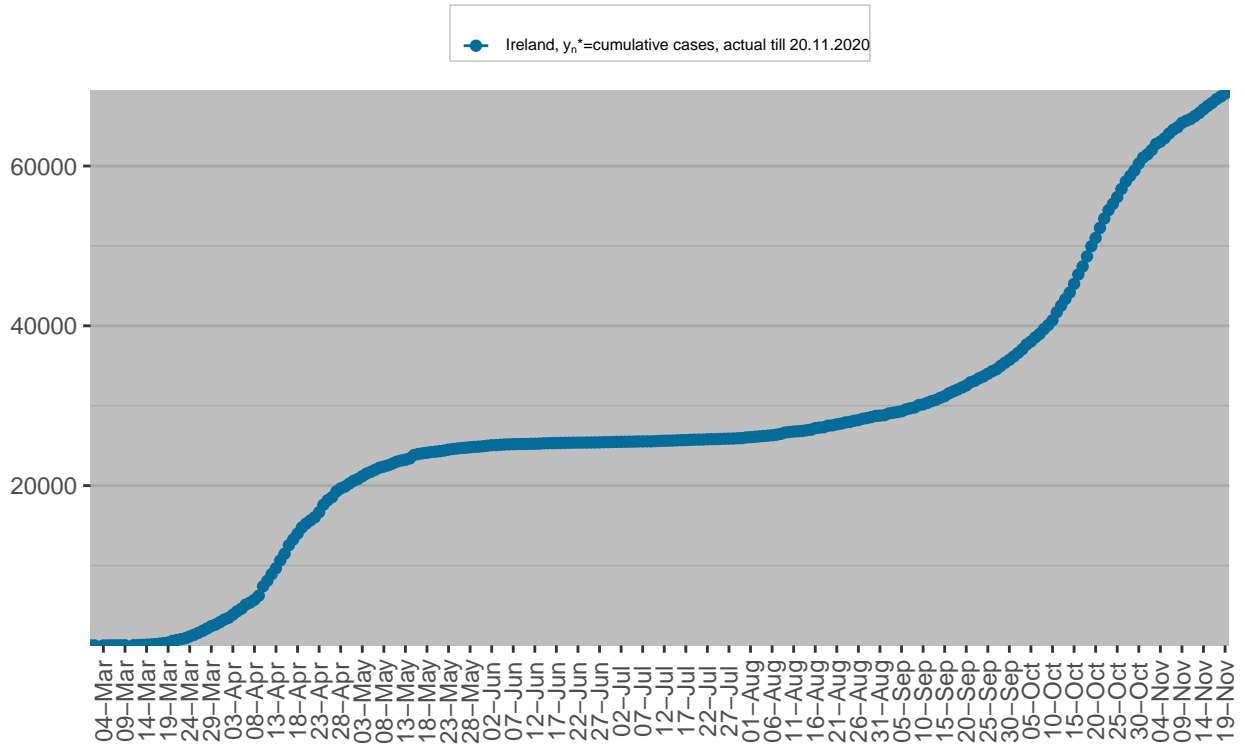

Figure 3: x-diagram for Ireland: the numbers of actually registered daily cases
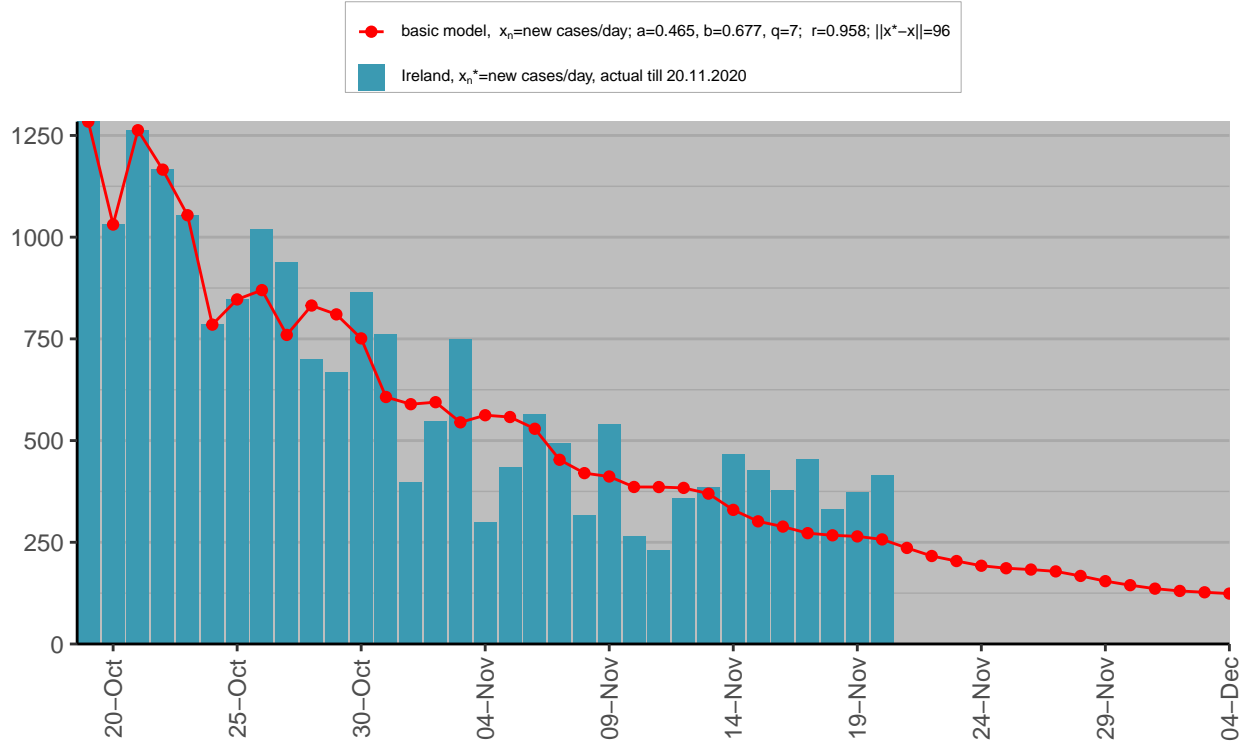
2

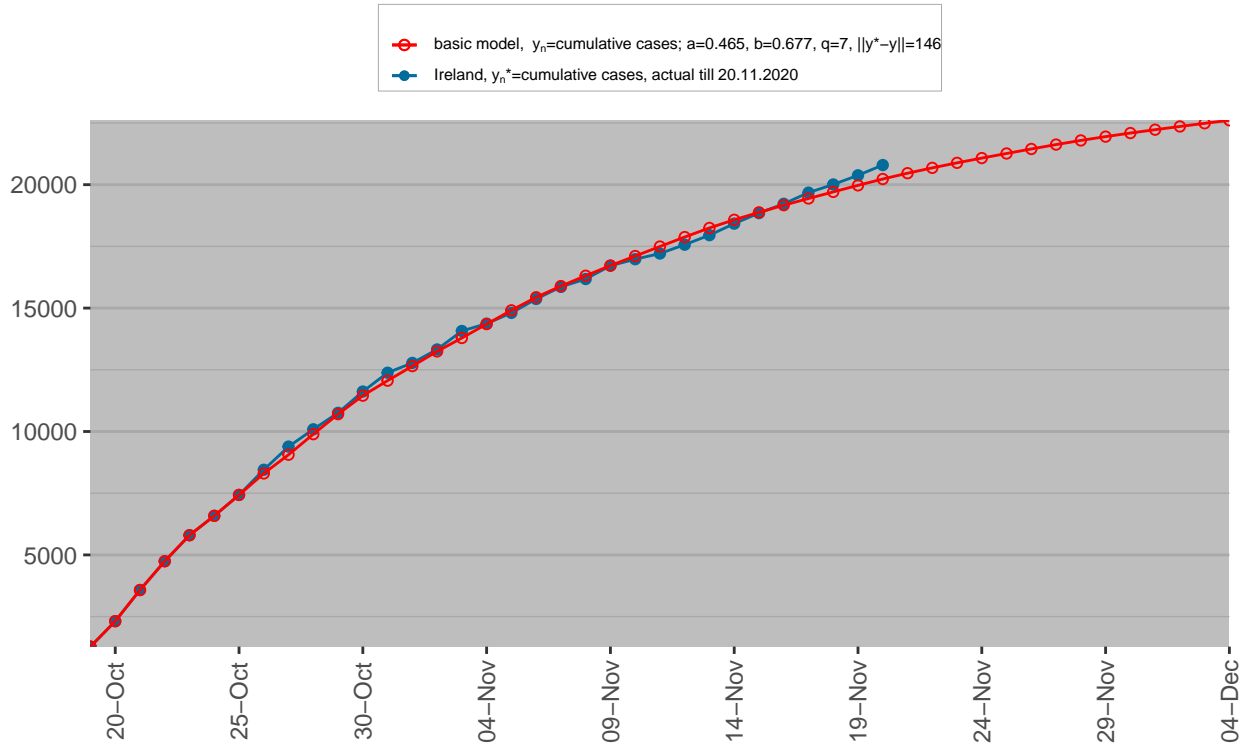Figure 4: Comparison of the basic model with the actual data, Ireland (x-diagram)

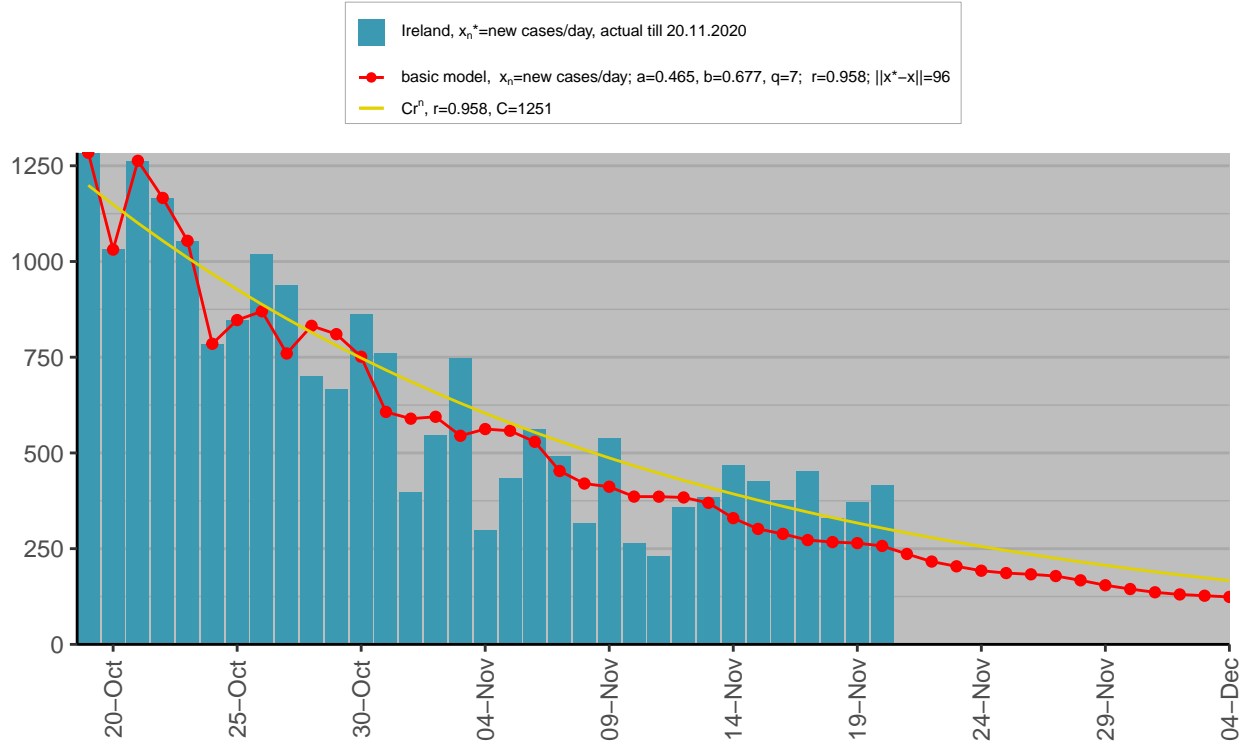Figure 5: Comparison of the basic model with the actual data, Ireland (x-diagram)

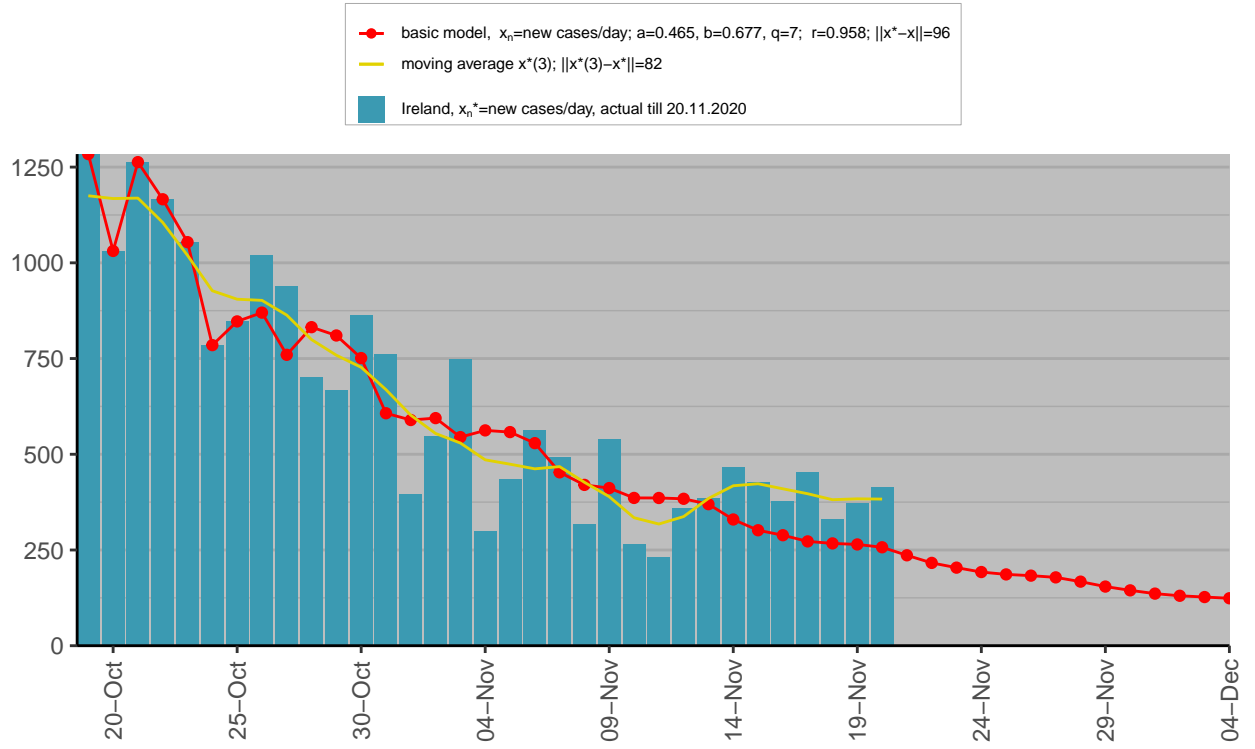Figure 6: Comparison of x_n^*, x_n and Cr^n, Ireland

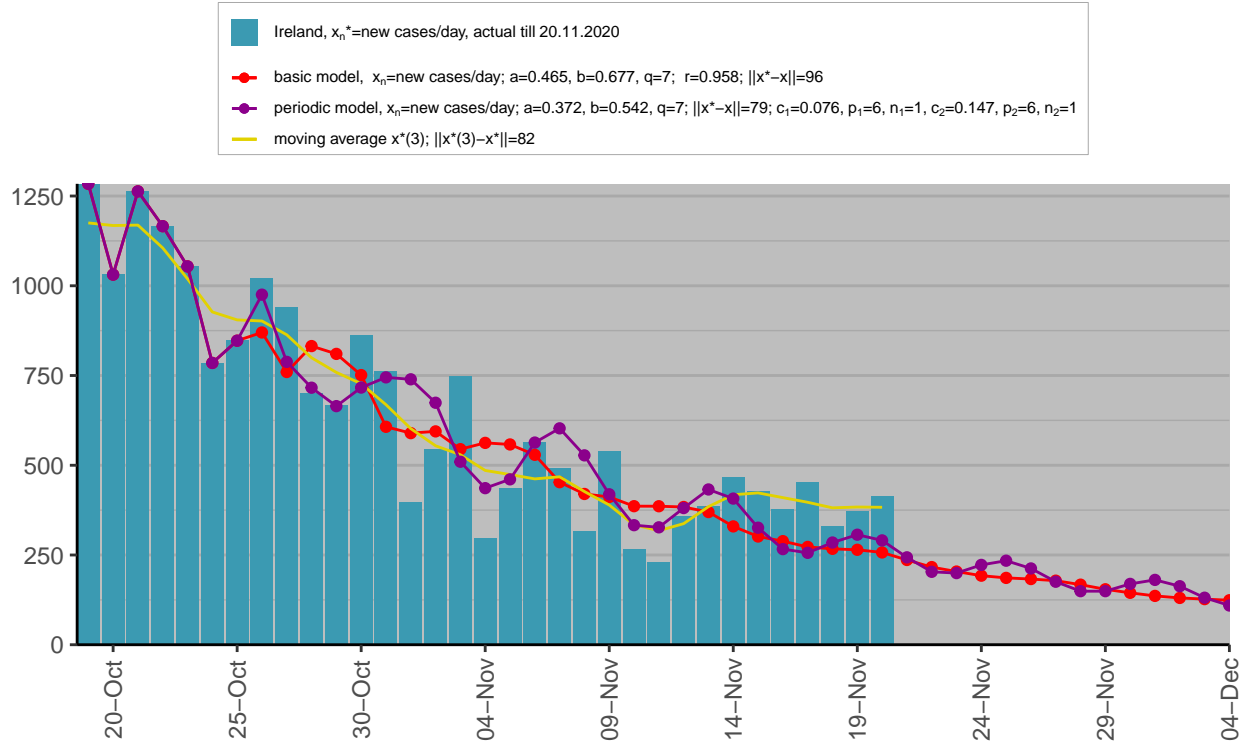Figure 7: Comparison of basic model with moving averages, Ireland

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Figure 8: Comparison of basic and periodic models with moving averages, Ireland
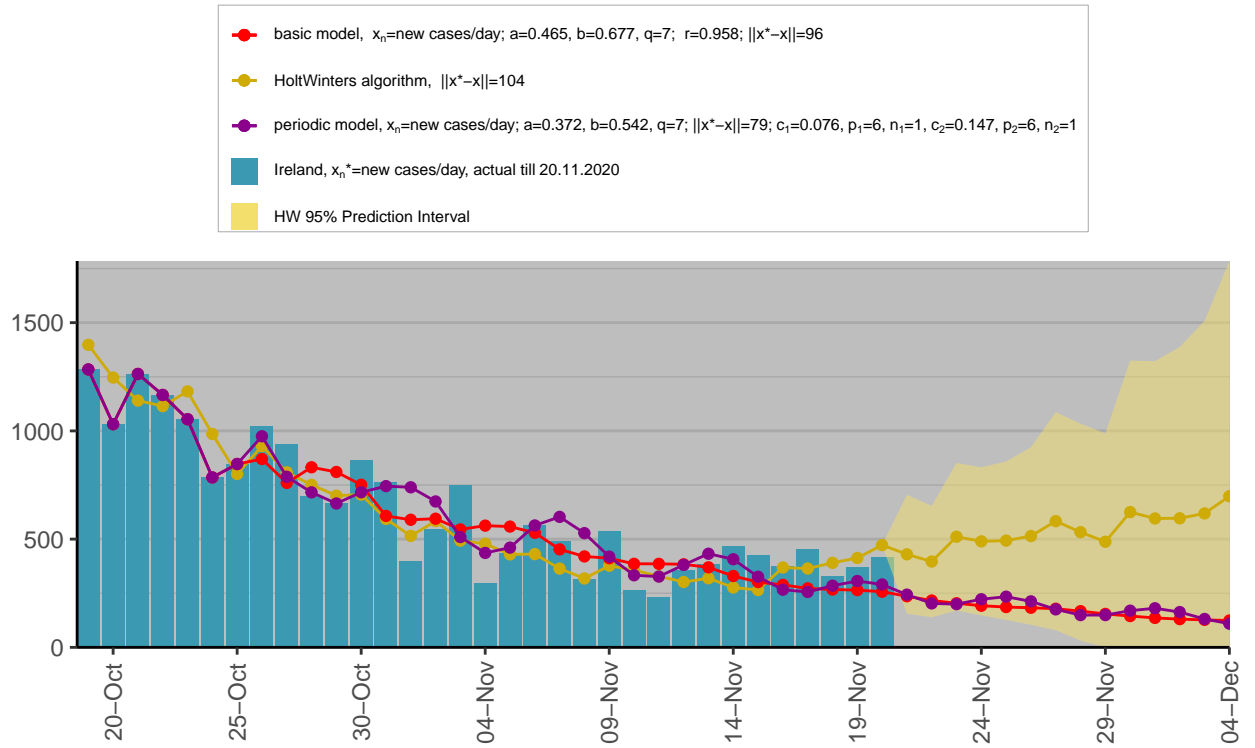

Figure 9: Comparison of basic and periodic models with HoltWinters model, Ireland
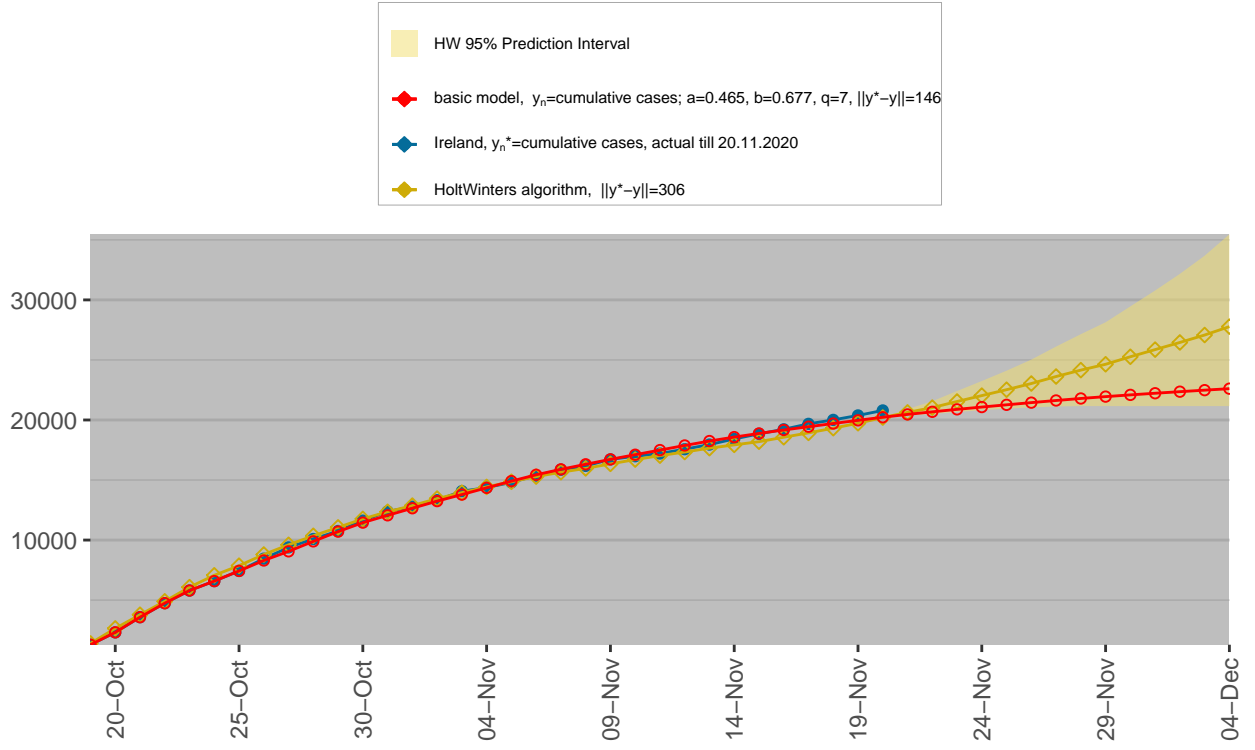
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Figure 10: Comparison of Cumulative basic and periodic models with HoltWinters Prediction, Ireland
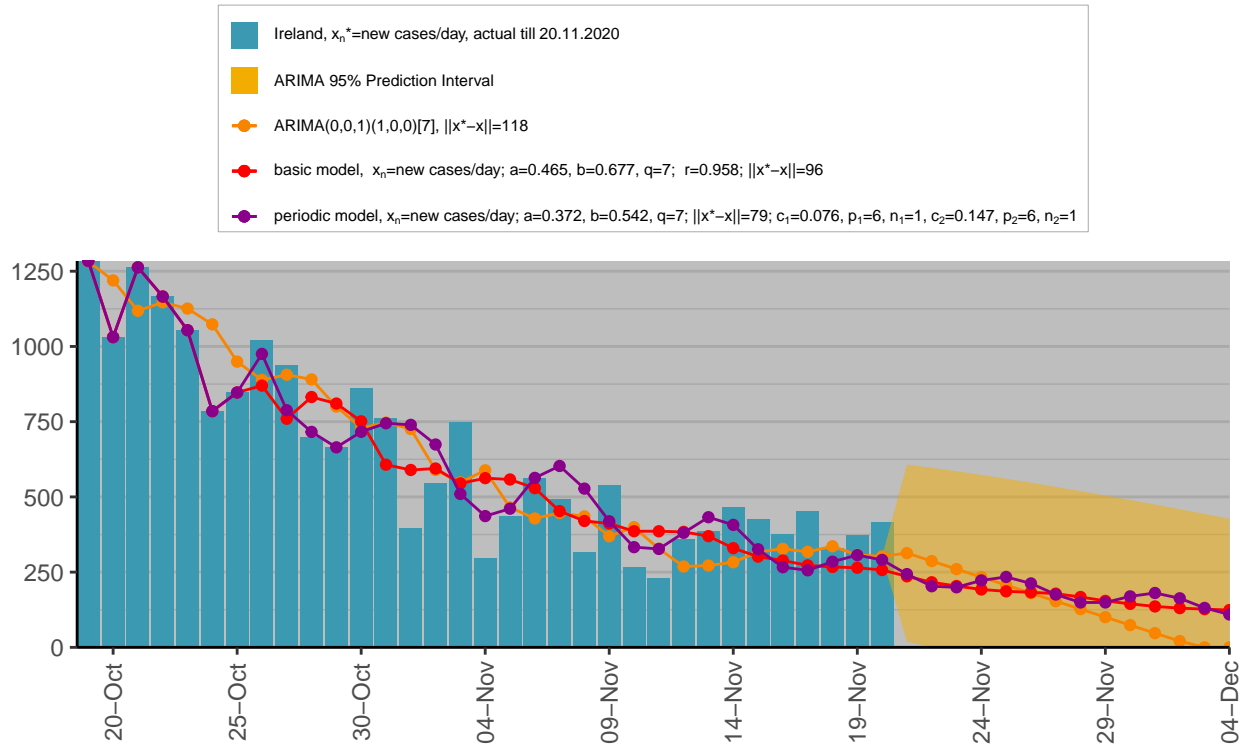

Figure 11: Comparison of basic and periodic models with ARIMA model, Ireland
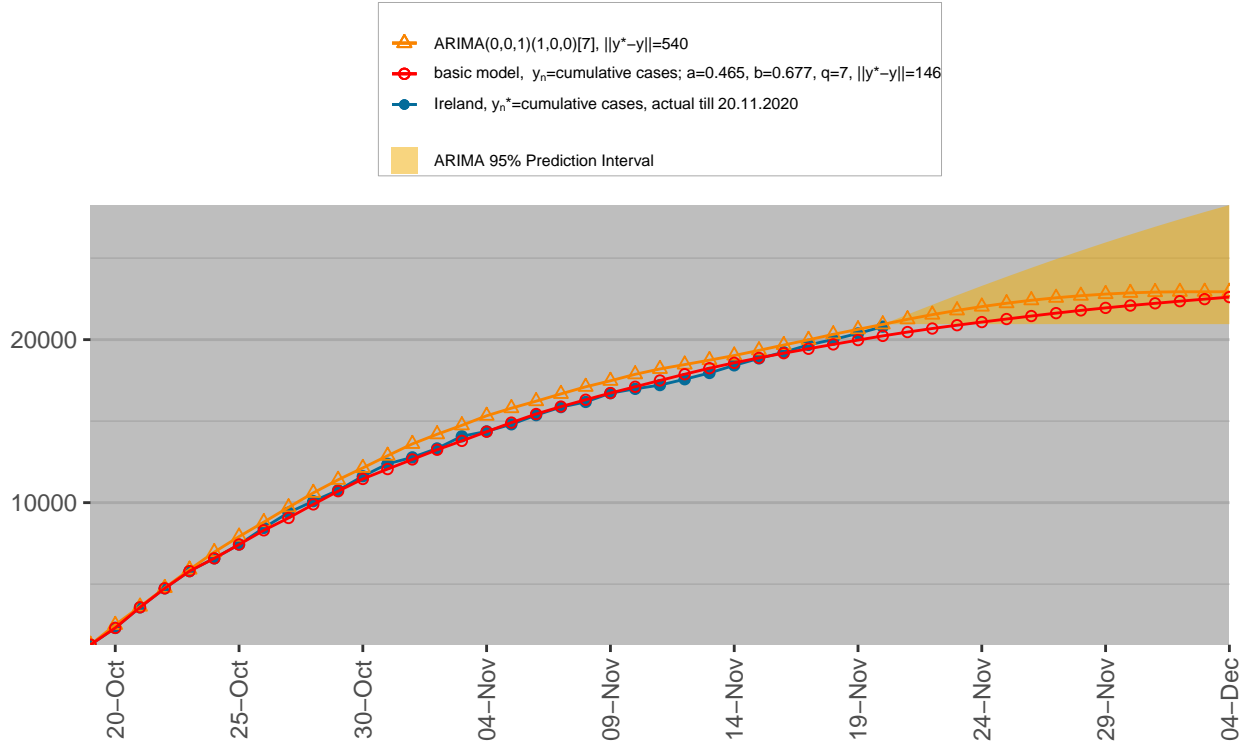
Figure 12: Comparison of Cumulative basic and periodic models with ARIMA model, Ireland
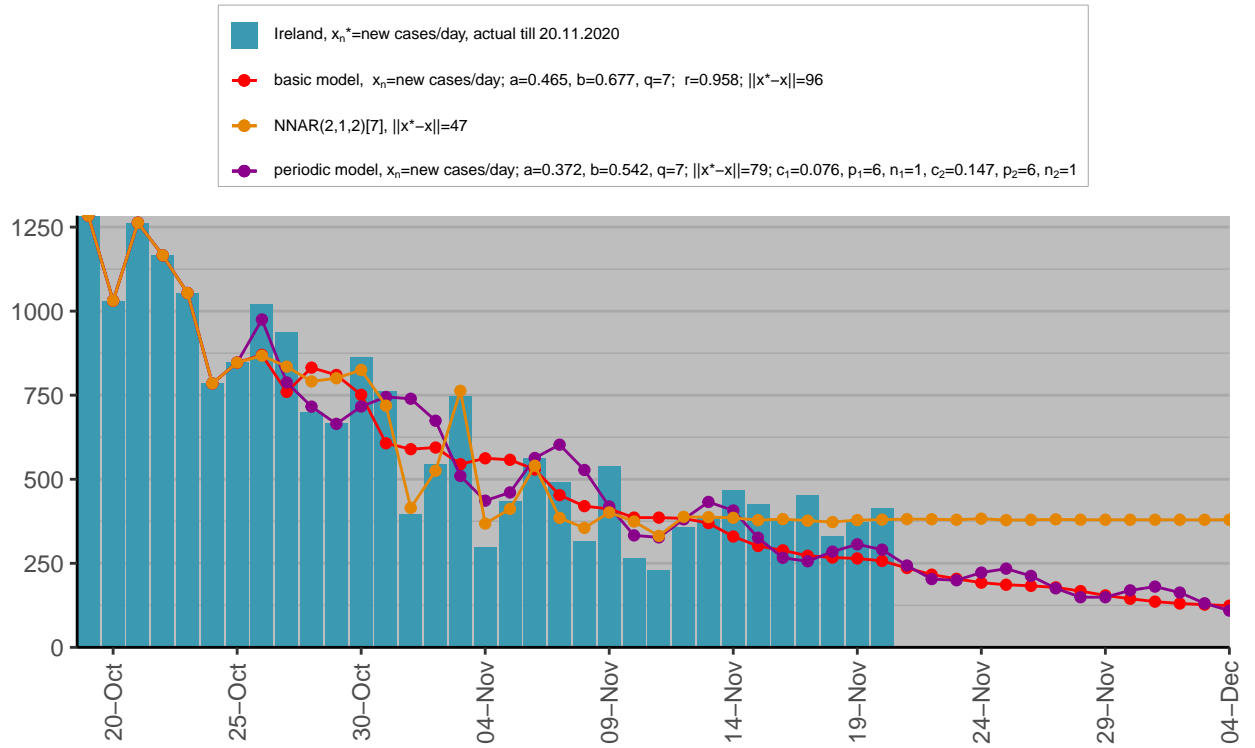

Figure 13: Comparison of basic and periodic models with Neural Network model, Ireland
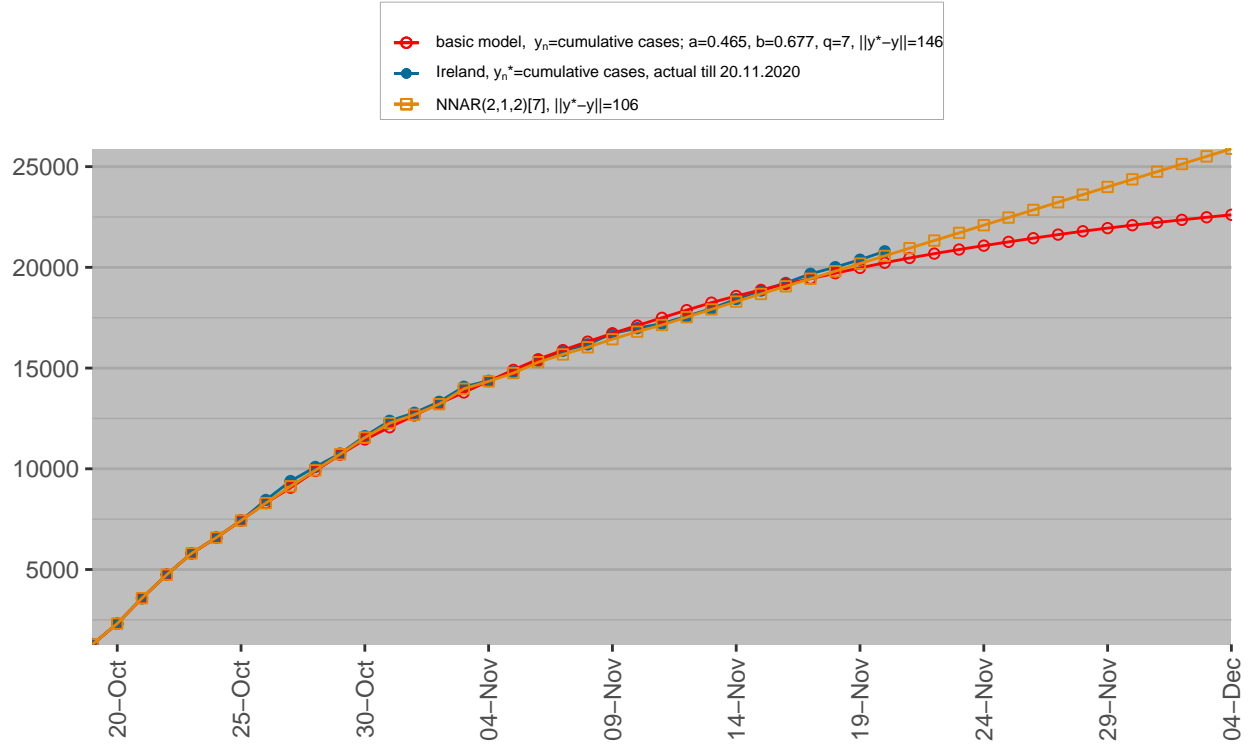
Figure 14: Comparison of Cumulative basic and periodic models with Neural Network model, Ireland
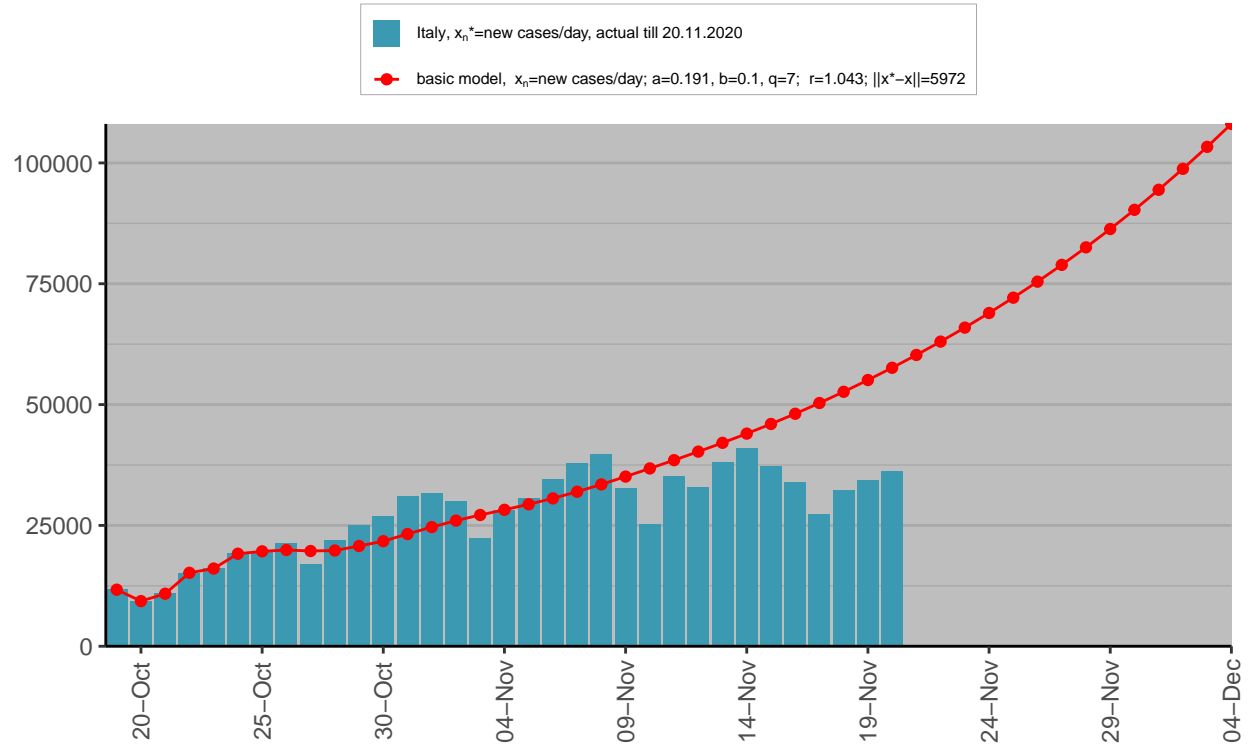

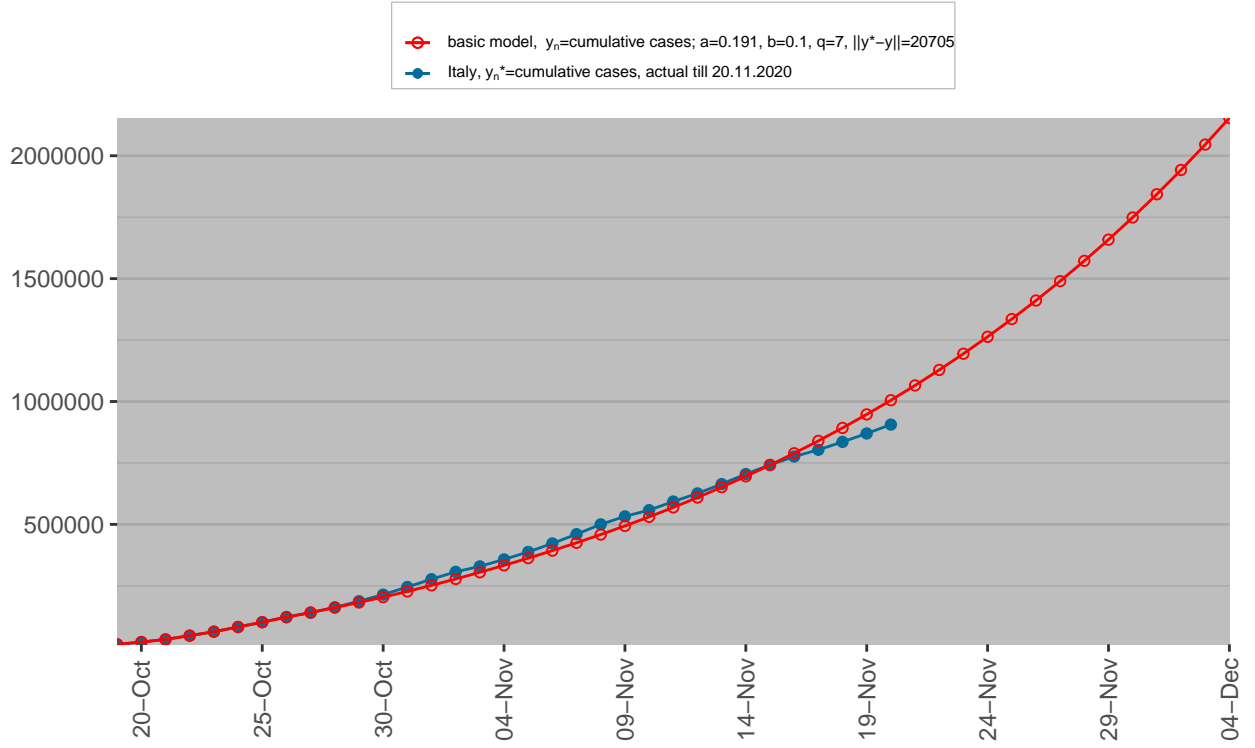Figure 15: Comparison of the basic model with the actual data, Italy (x-diagram)

Figure 16: Comparison of the basic model with the actual data, Italy (x-diagram)
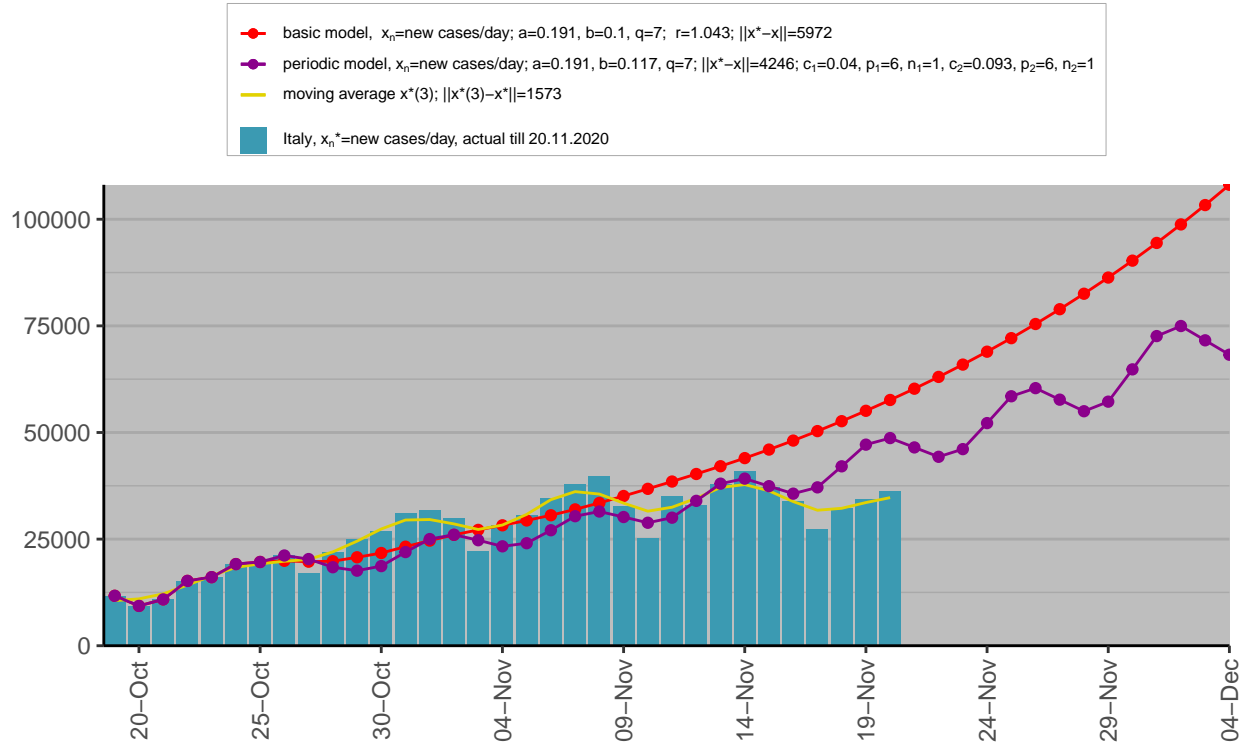

Figure 17: Comparison of basic and periodic models with moving averages, Italy
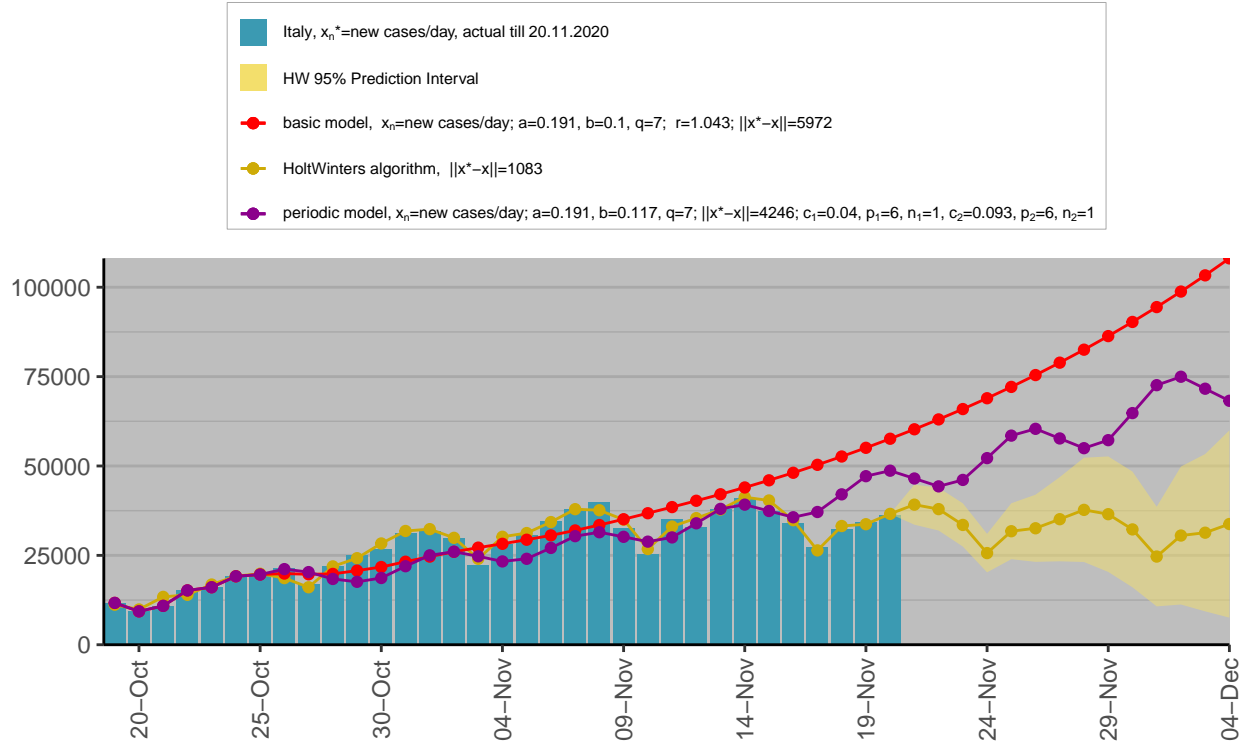
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Figure 18: Comparison of basic and periodic models with HoltWinters model, Italy
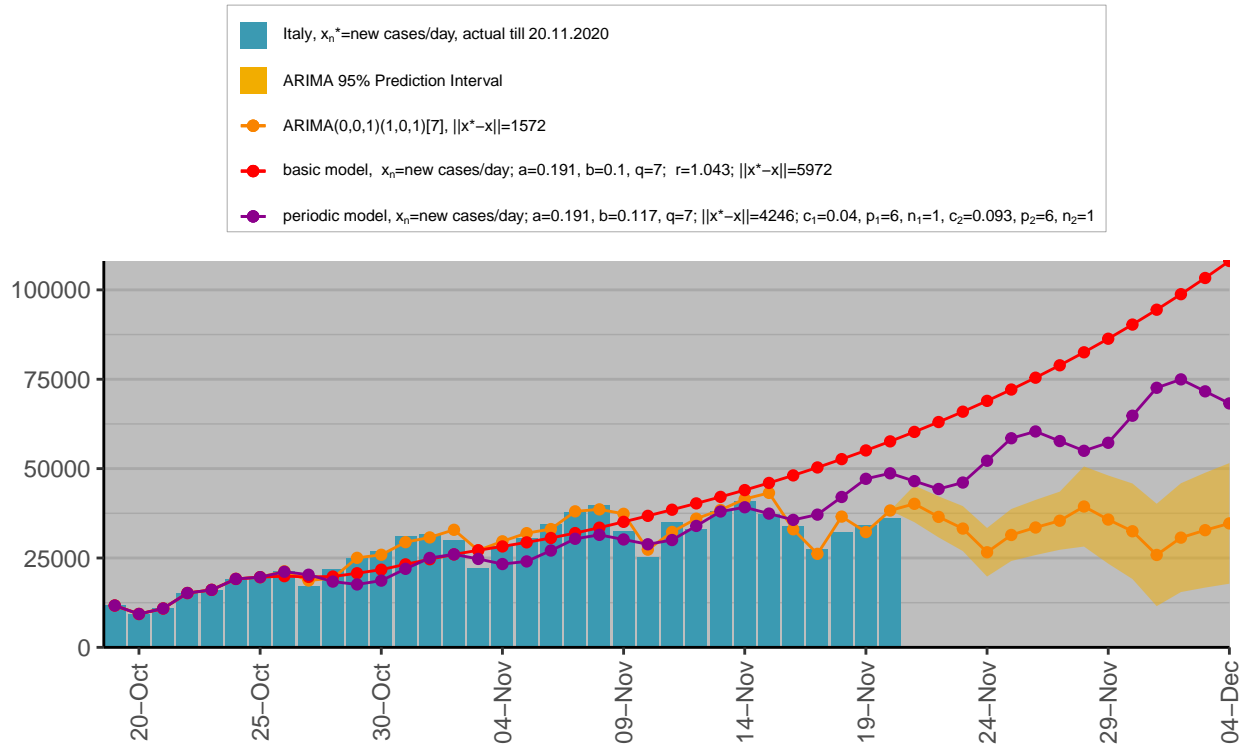

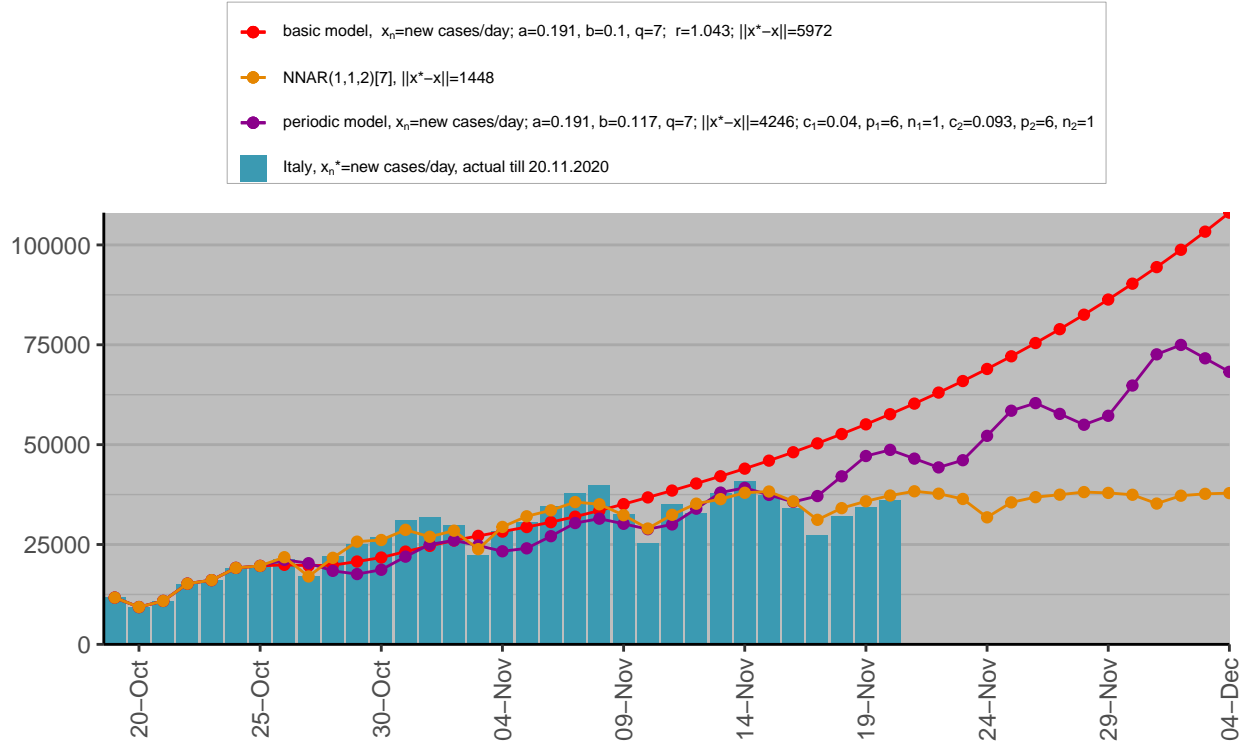Figure 19: Comparison of basic and periodic models with ARIMA model, Italy

Figure 20: Comparison of basic and periodic models with Neural Network model, Italy
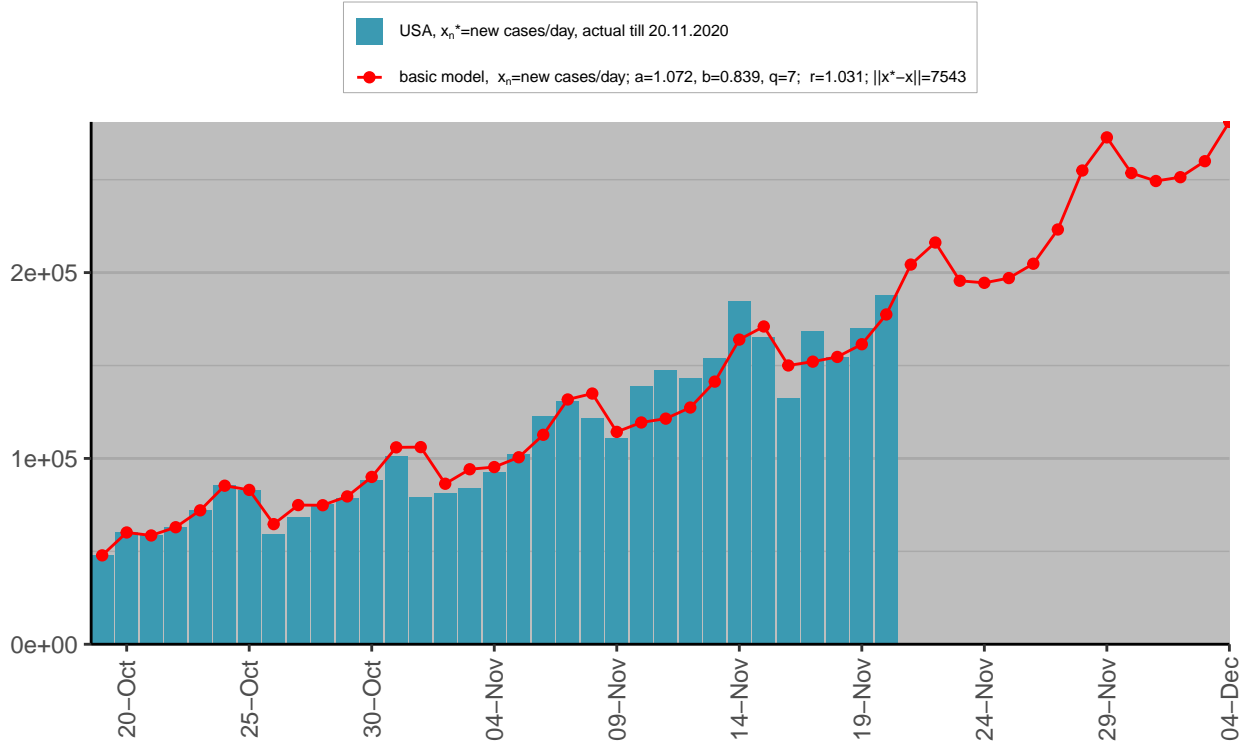

Figure 21: Comparison of the basic model with the actual data, USA (x-diagram)
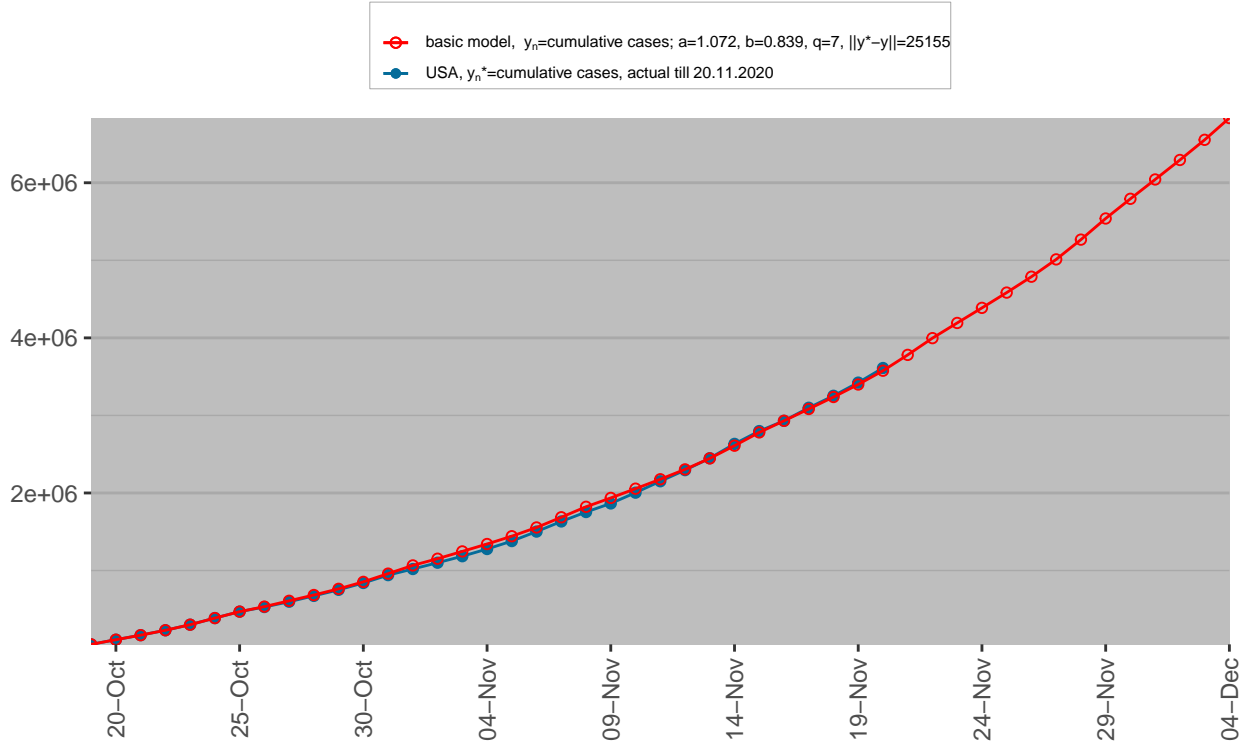
Figure 22: Comparison of the basic model with the actual data, USA (x-diagram)
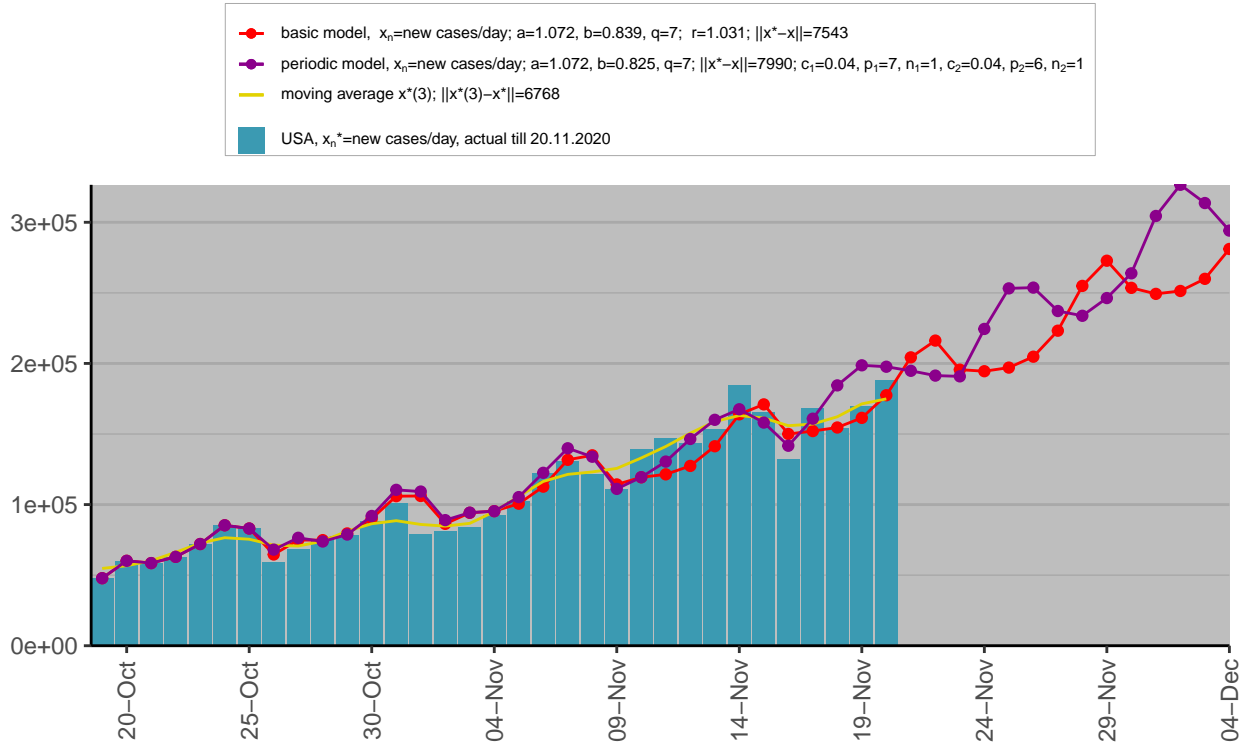

Figure 23: Comparison of basic and periodic models with moving averages, USA
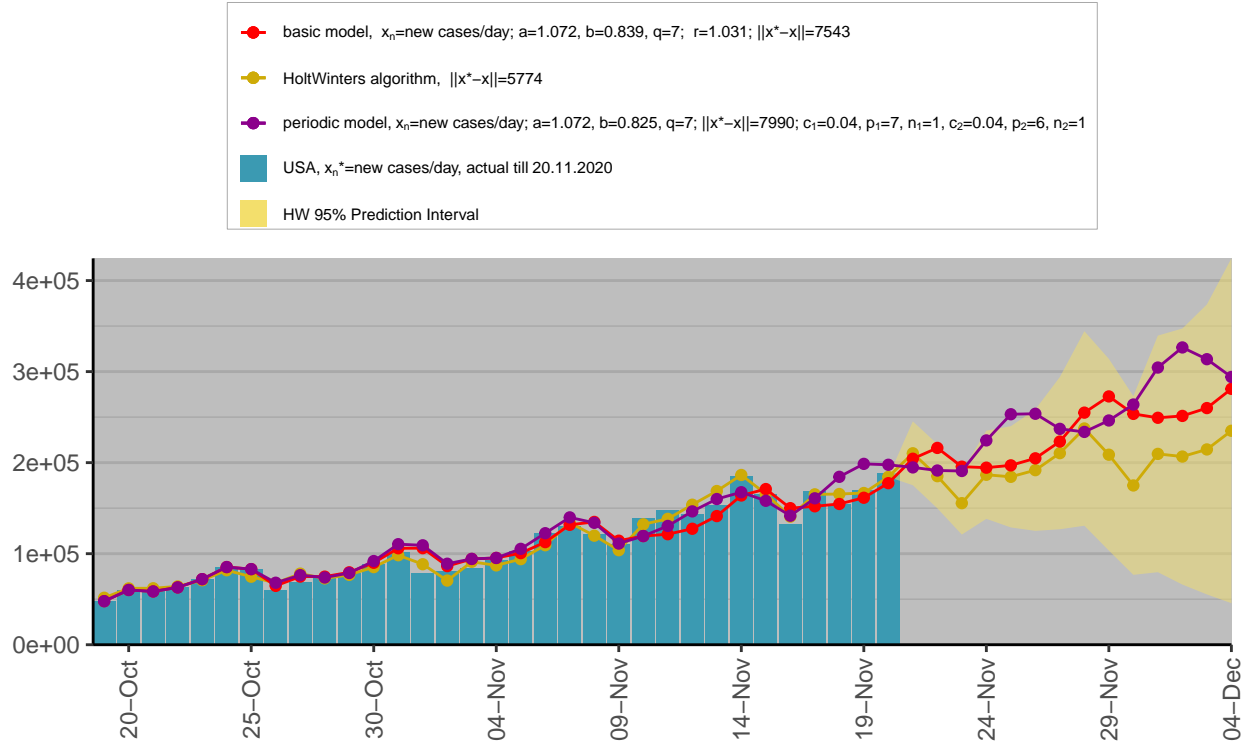
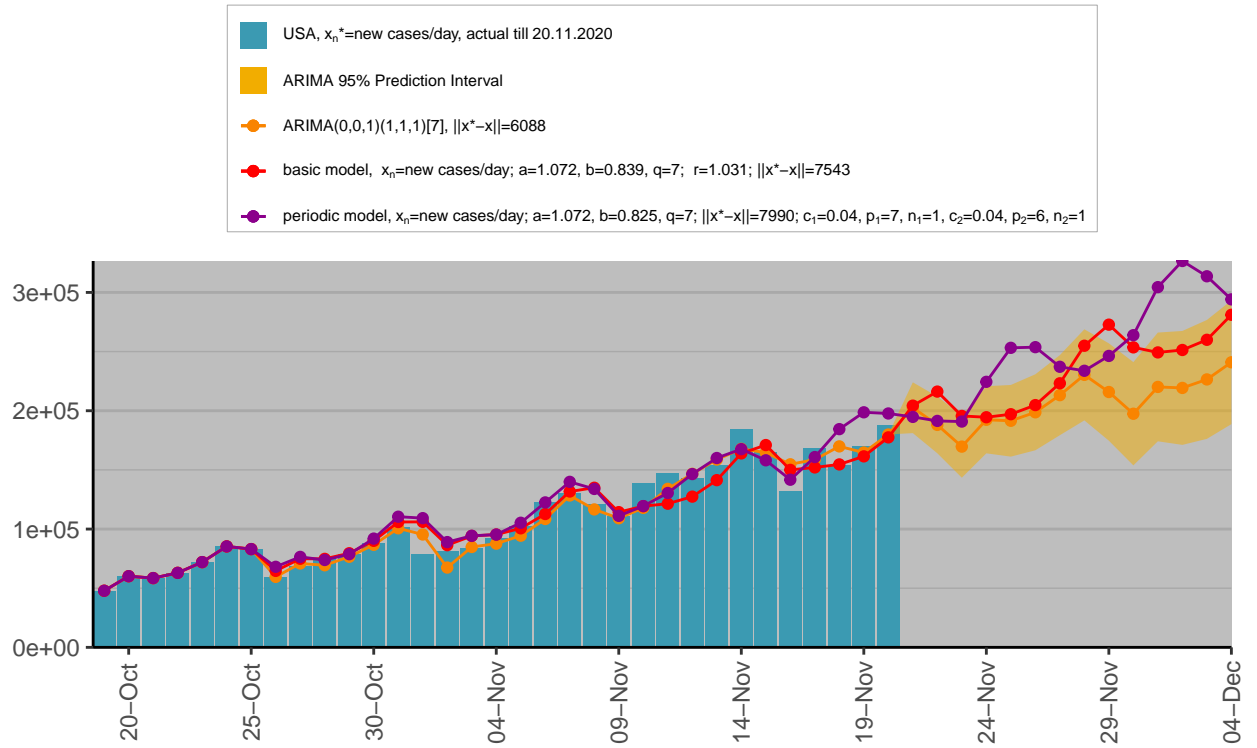Figure 24: Comparison of basic and periodic models with HoltWinters model, USA

Figure 25: Comparison of basic and periodic models with ARIMA model, USA
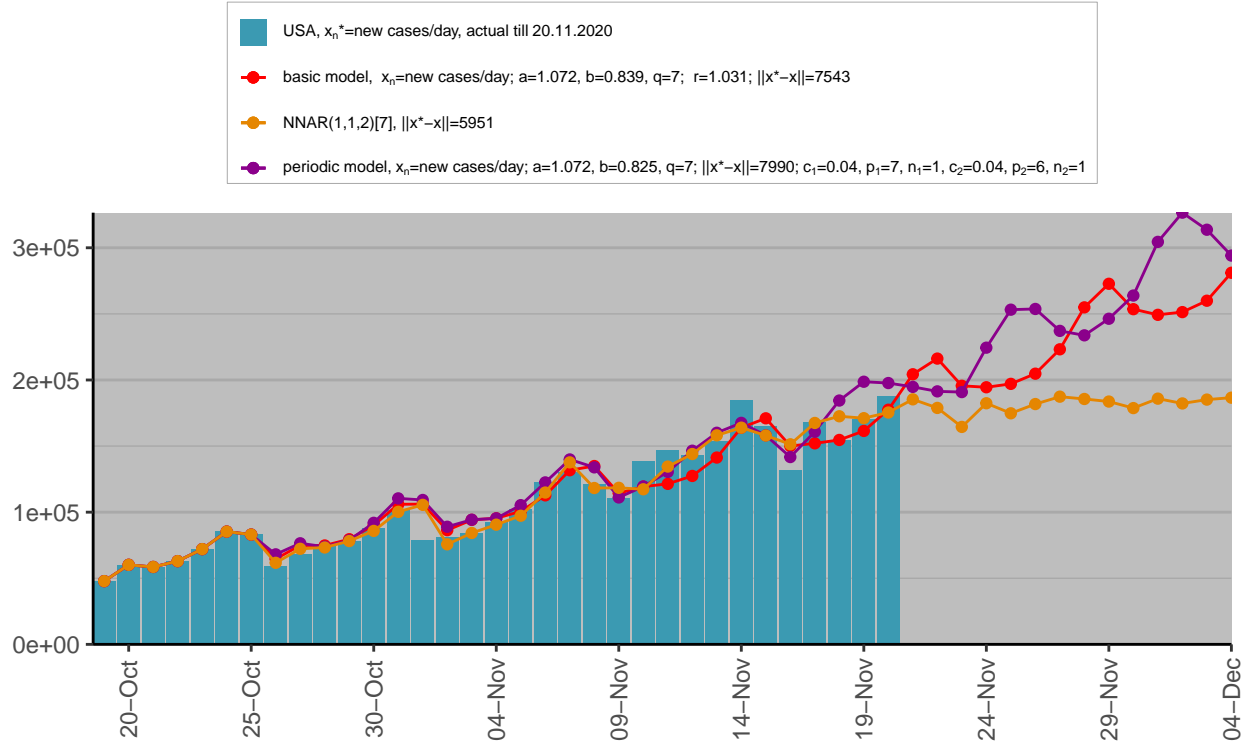
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Figure 26: Comparison of basic and periodic models with Neural Network model, USA
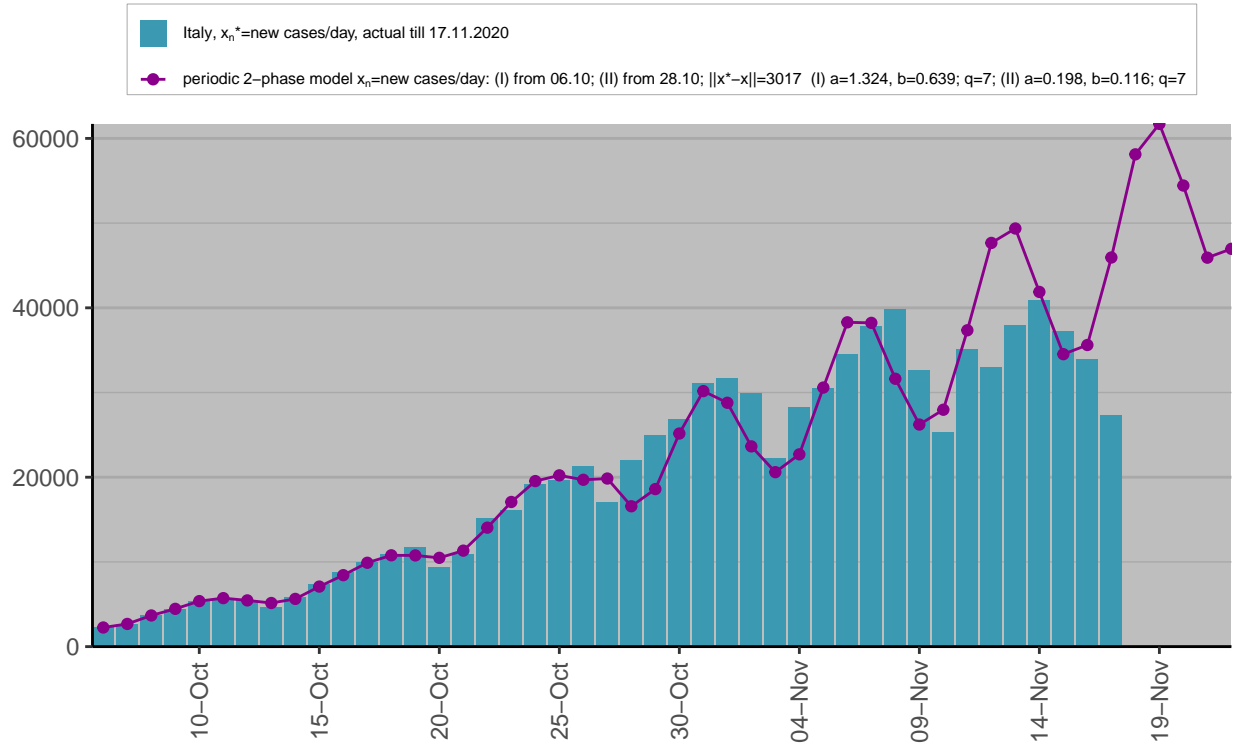

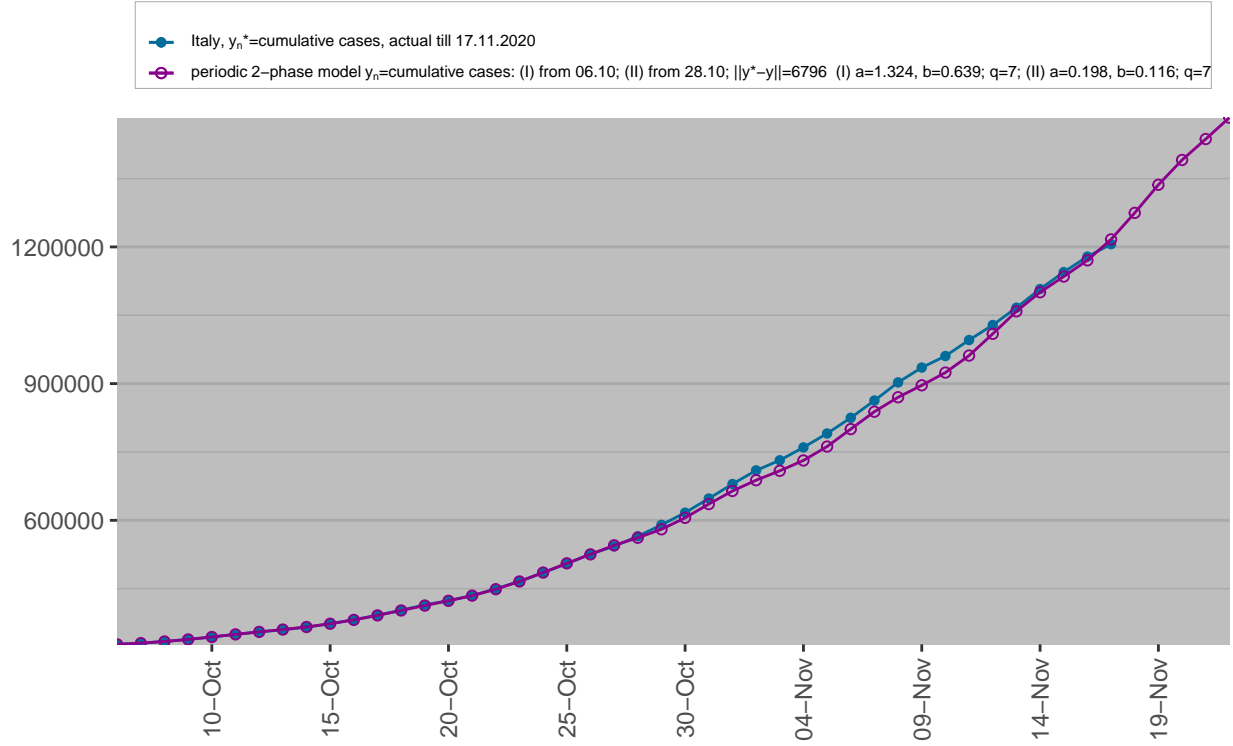Figure 27: A multi-phase periodic model for Italy (x-diagram)

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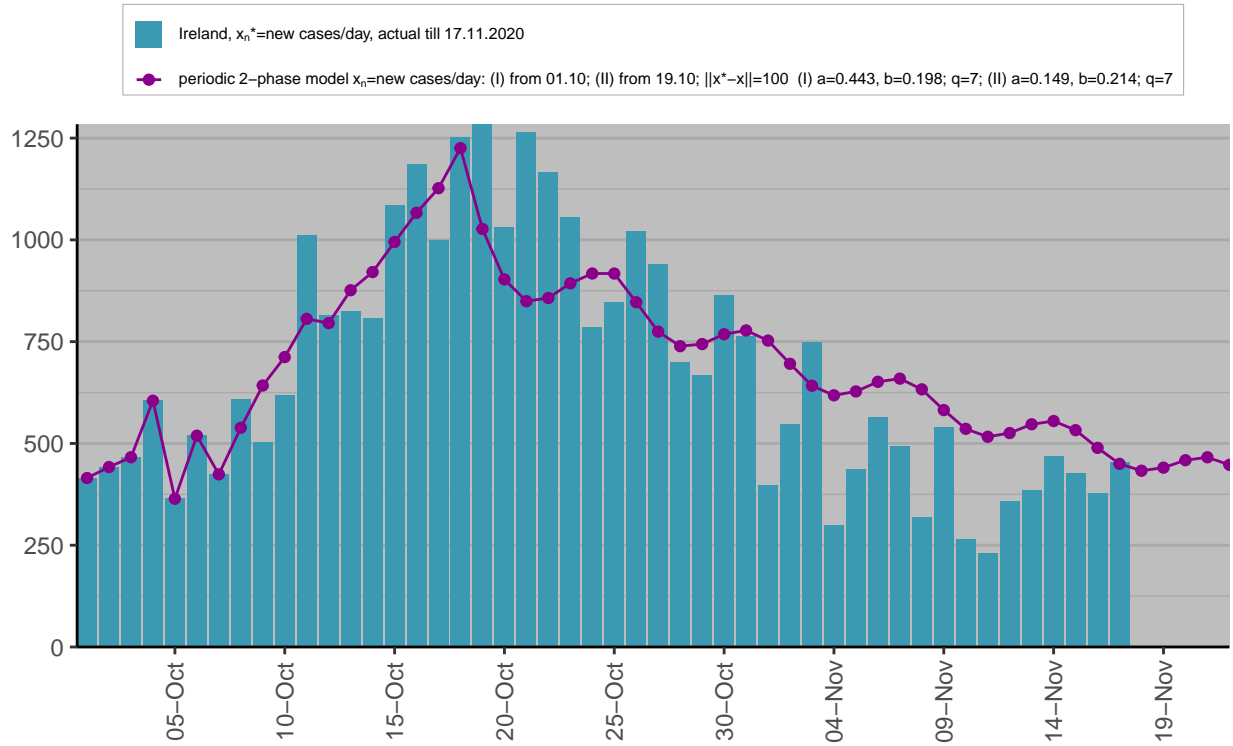Figure 28: A multi-phase periodic model for Italy (y-diagram)

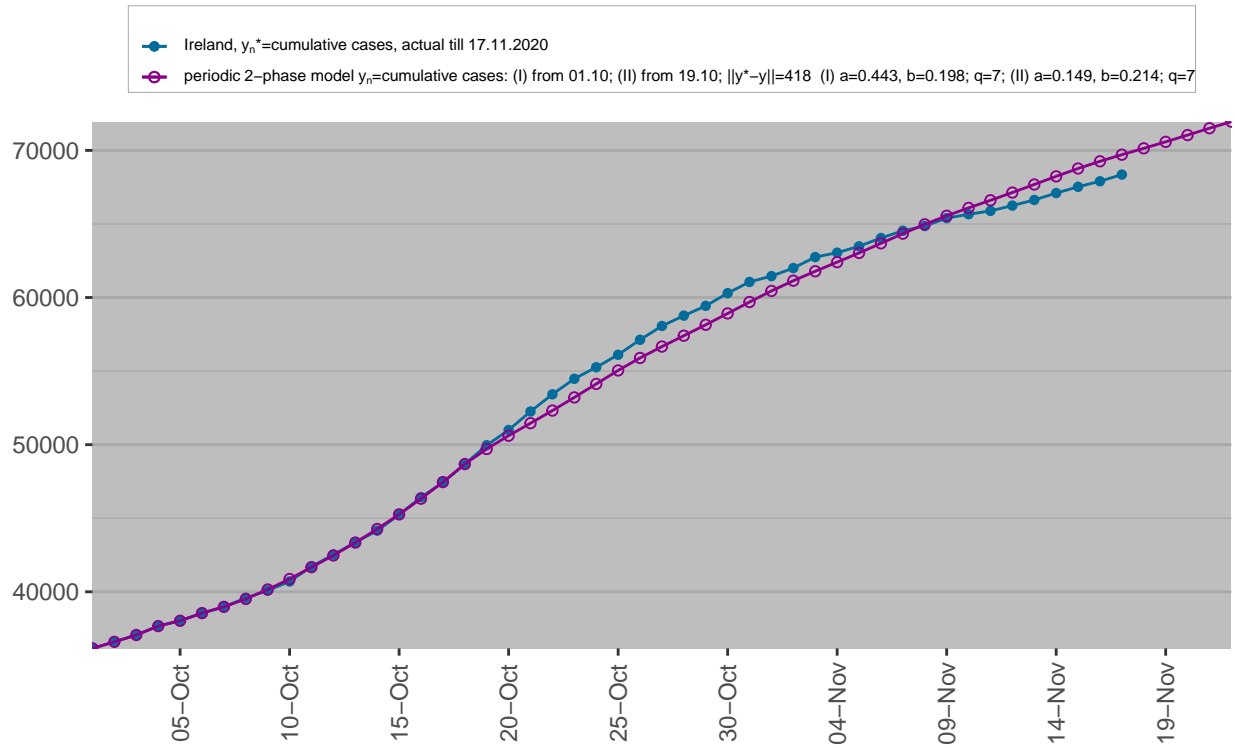Figure 29: A multi-phase periodic model for Ireland (x-diagram)

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Figure 30: A multi-phase periodic model for Ireland (y-diagram)
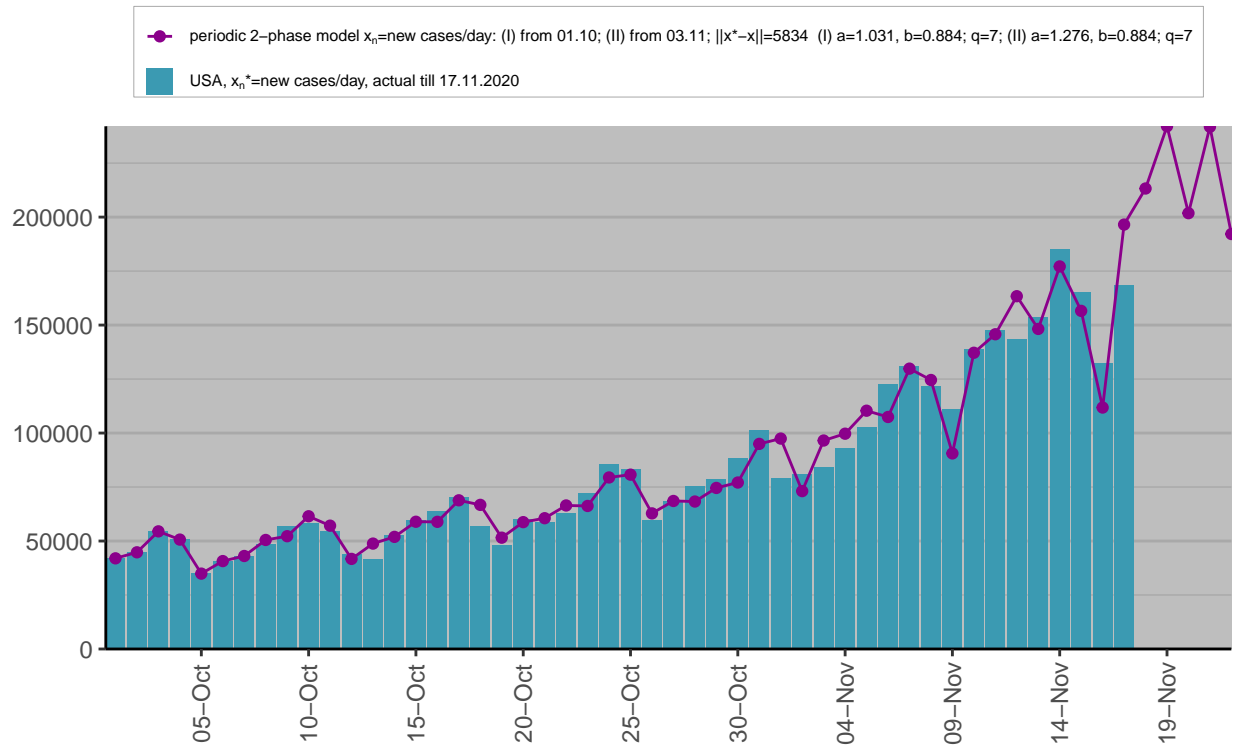

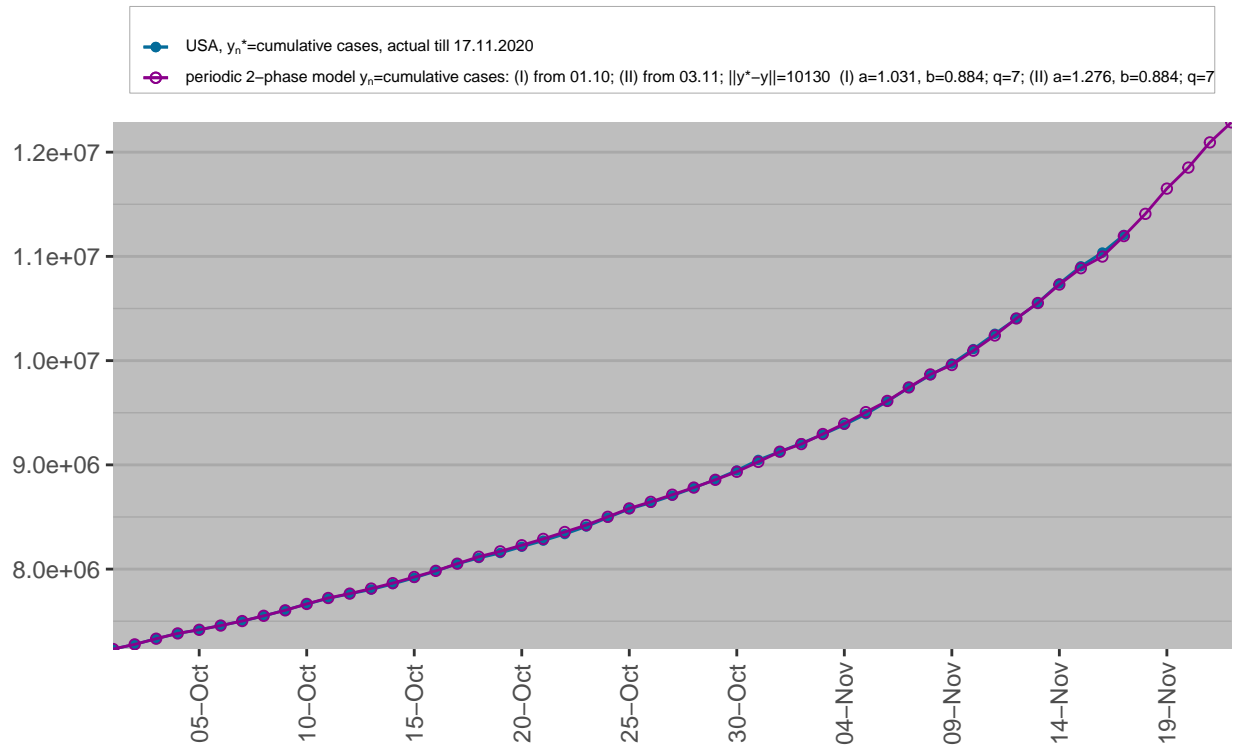Figure 31: A multi-phase periodic model for the USA (x-diagram)

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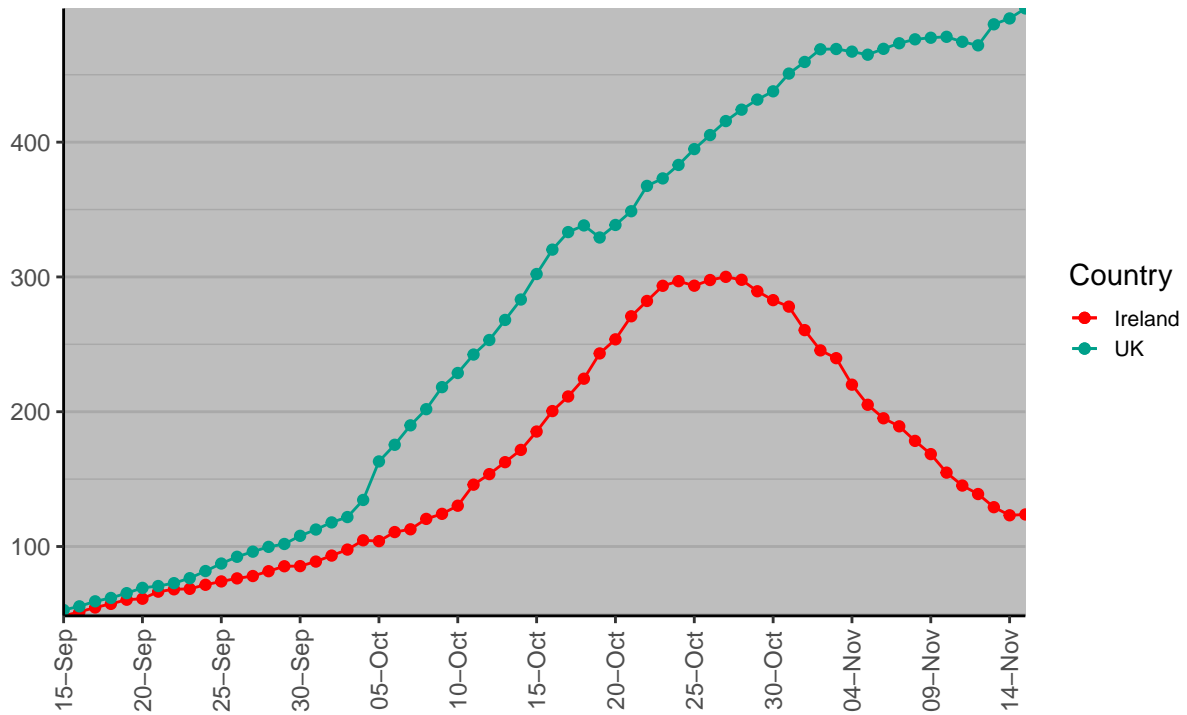Figure 32: A multi-phase periodic model for the USA (y-diagram)

Figure 33: A Comparison of the cumulative number of cases for 14 days per 100,000 of the populaiton - Ireland vs UK
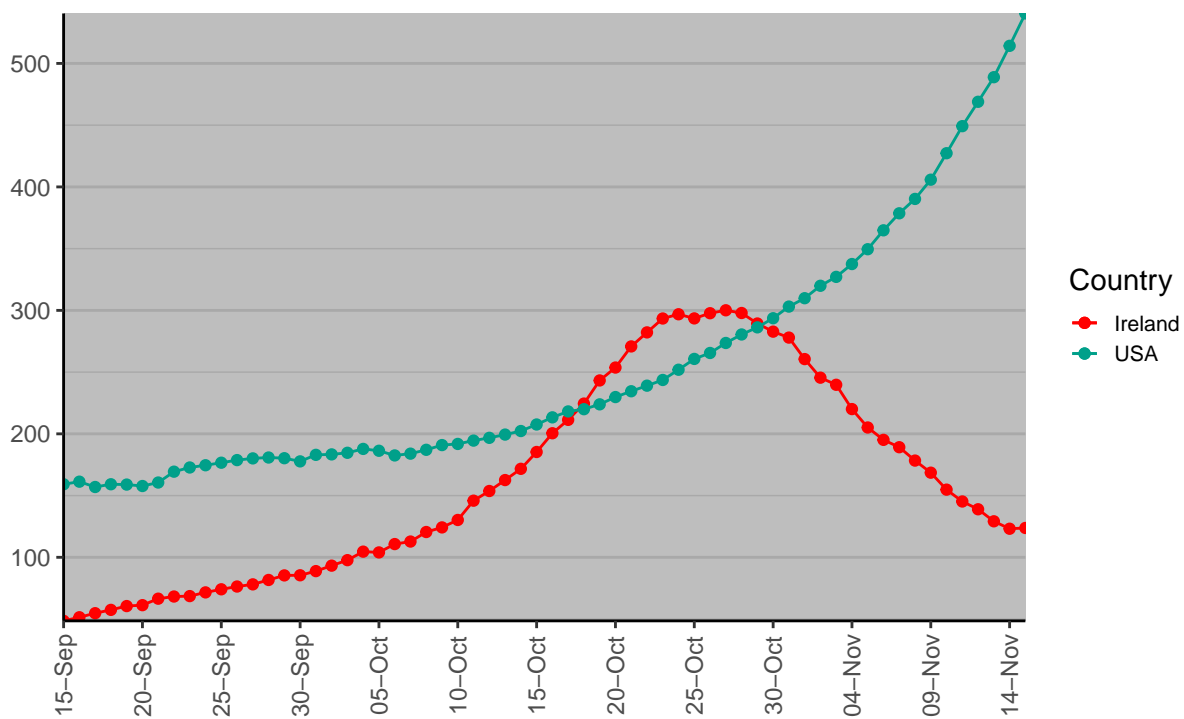
Figure 34: A Comparison of the cumulative number of cases for 14 days per 100,000 of the populaiton - Ireland vs USA
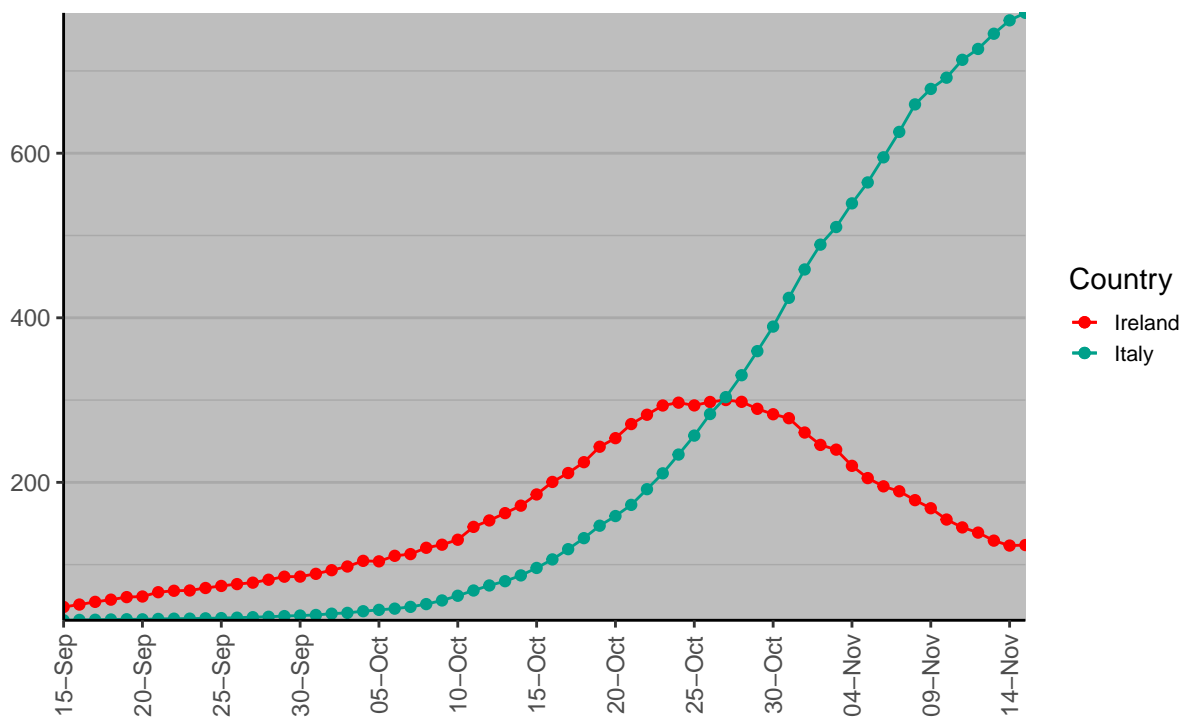
Figure 35: A Comparison of the cumulative number of cases for 14 days per 100,000 of the populaiton - Ireland vs Italy
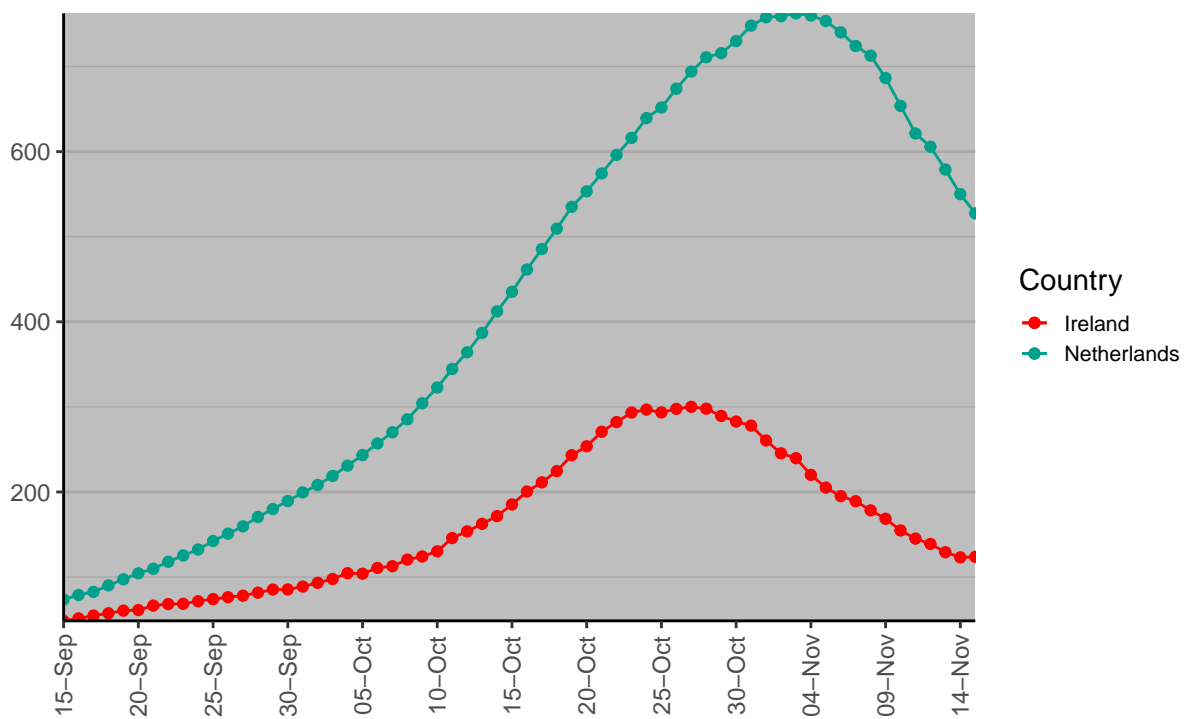
Figure 36: A Comparison of the cumulative number of cases for 14 days per 100,000 of the populaiton - Ireland vs Netherlands
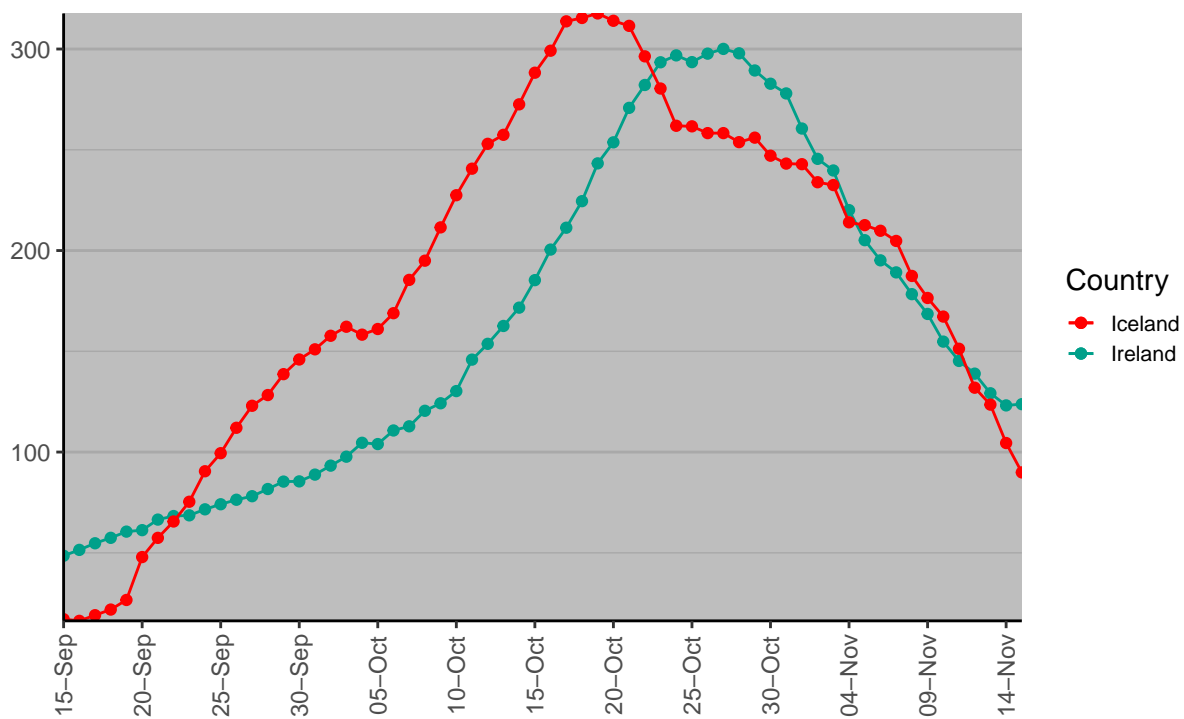
Figure 37: A Comparison of the cumulative number of cases for 14 days per 100,000 of the populaiton - Ireland vs Iceland