Covid Plots

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1   Introduction

Global Total =203,520,072 as at January 30, 2021
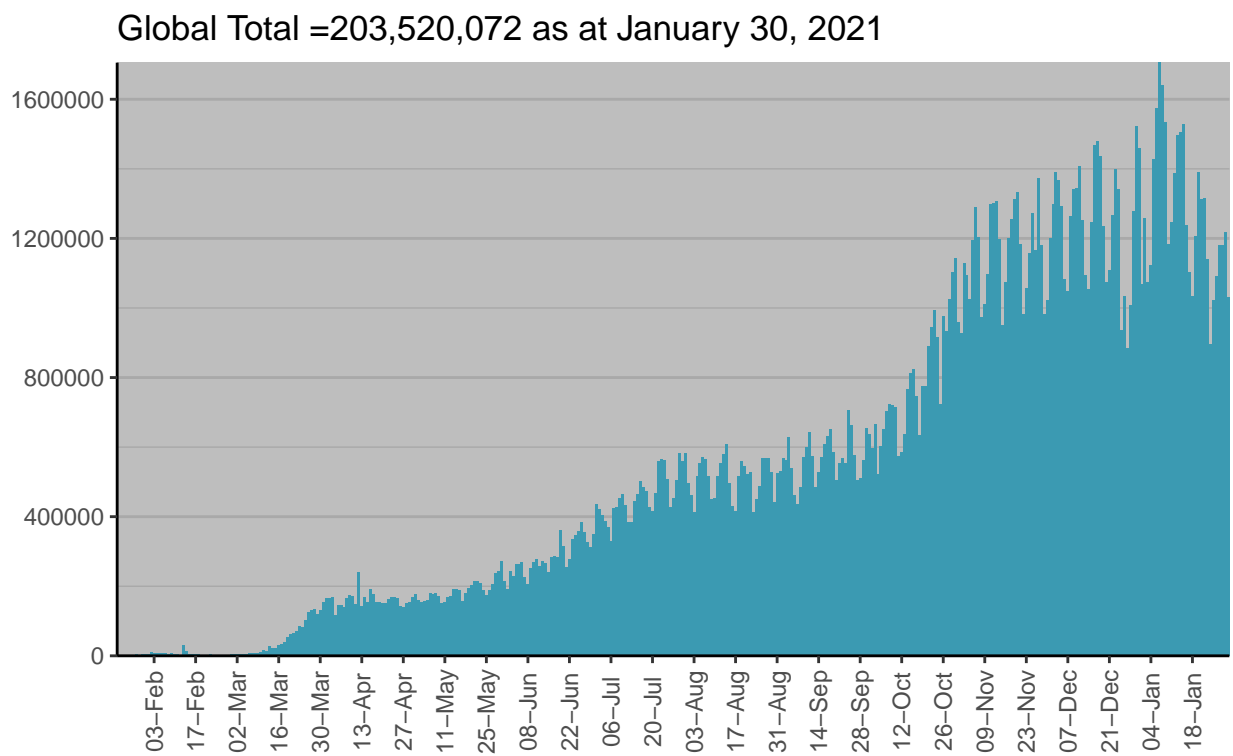
Figure 1:   Daily cases Globally to date

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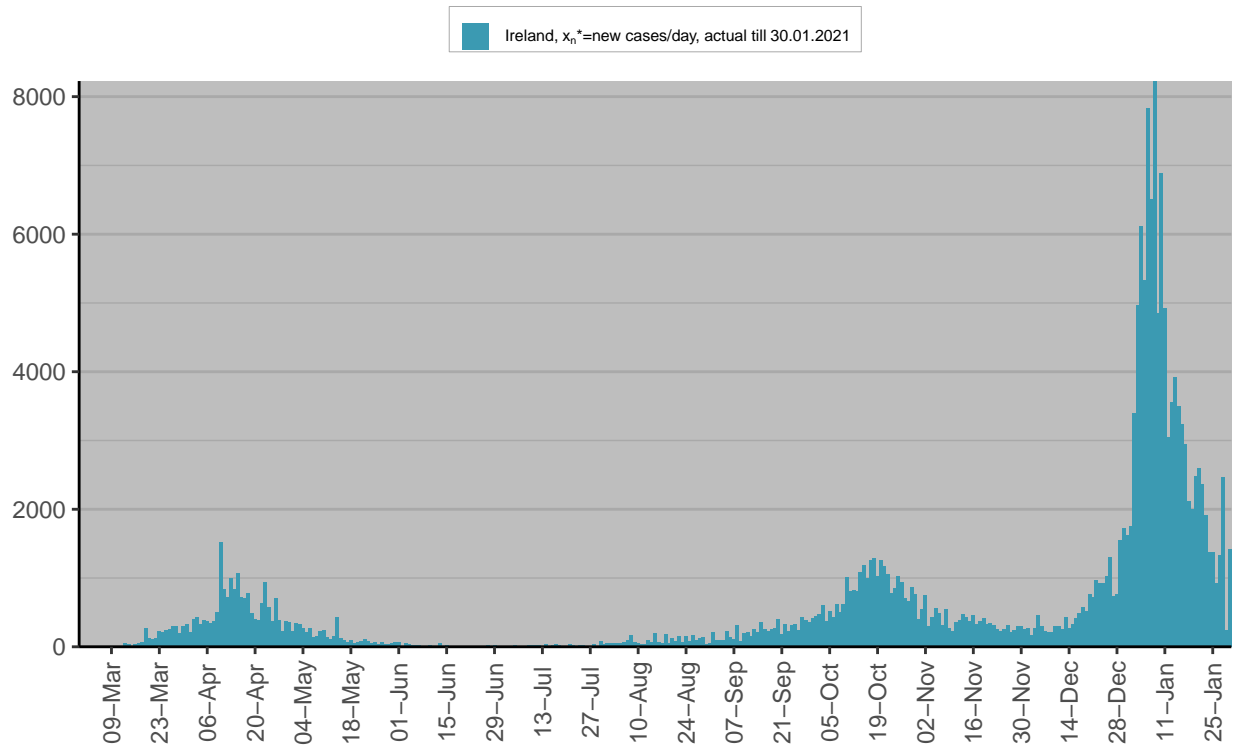
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Figure 2: x-diagram for Ireland: the numbers of actually registered daily cases
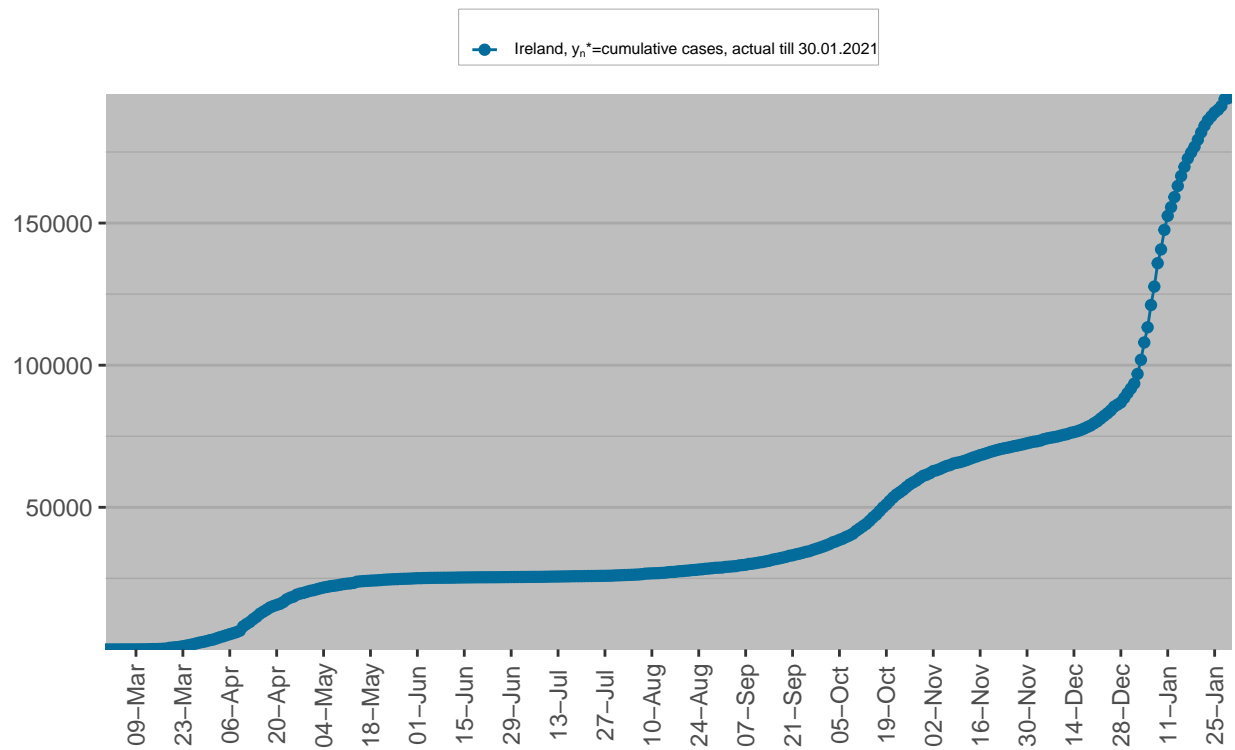

Figure 3: x-diagram for Ireland: the numbers of actually registered daily cases
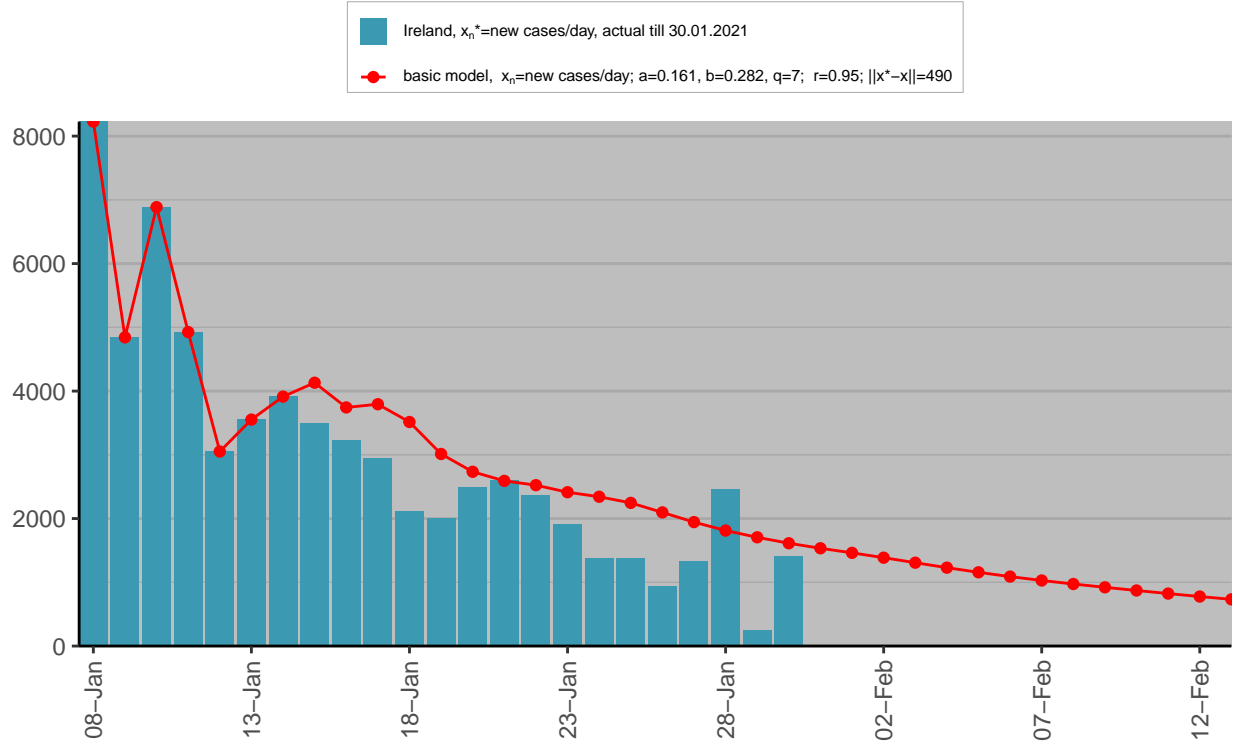
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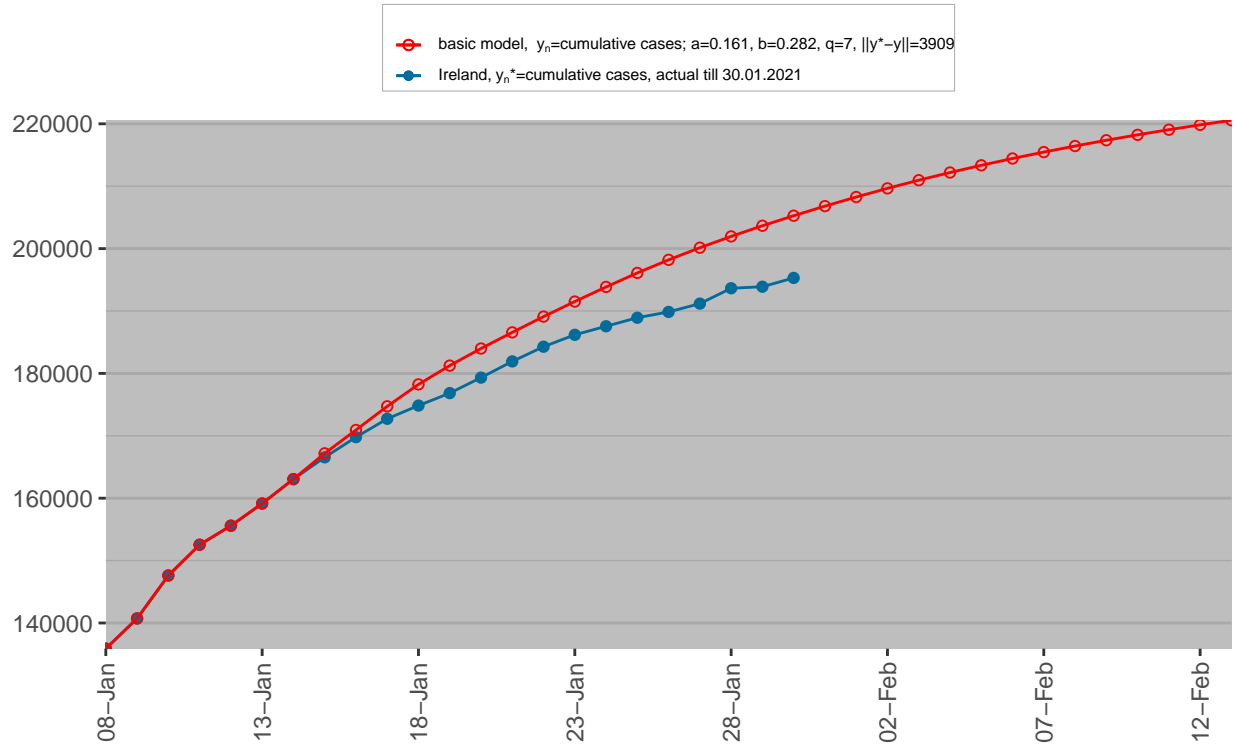Figure 4: Comparison of the basic model with the actual data, Ireland (x-diagram)

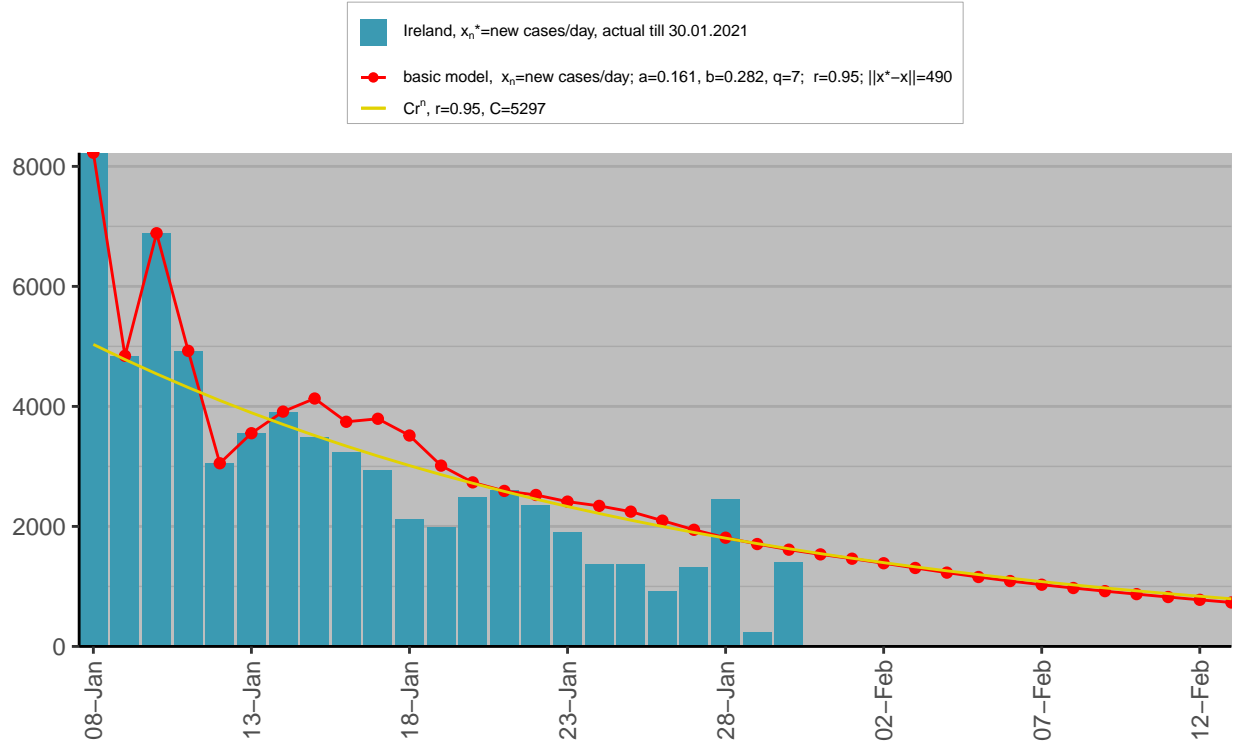Figure 5: Comparison of the basic model with the actual data, Ireland (x-diagram)

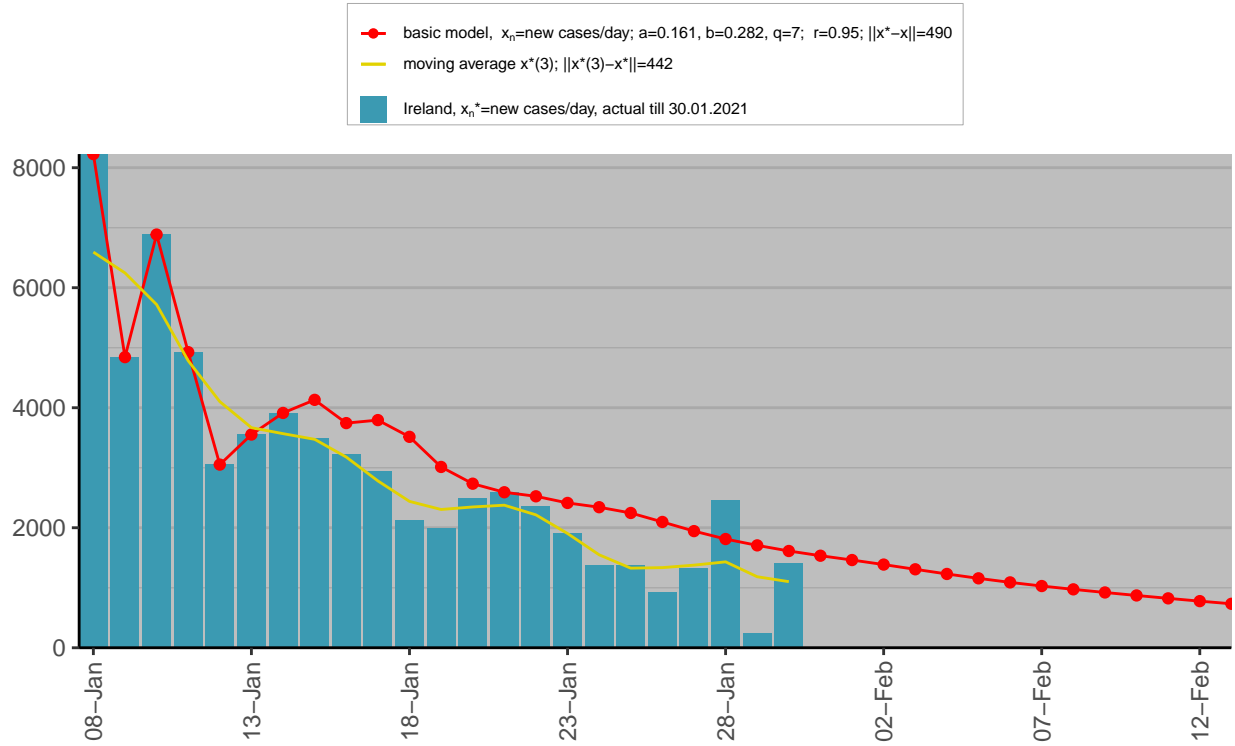Figure 6: Comparison of x_n^*, x_n and Cr^n, Ireland

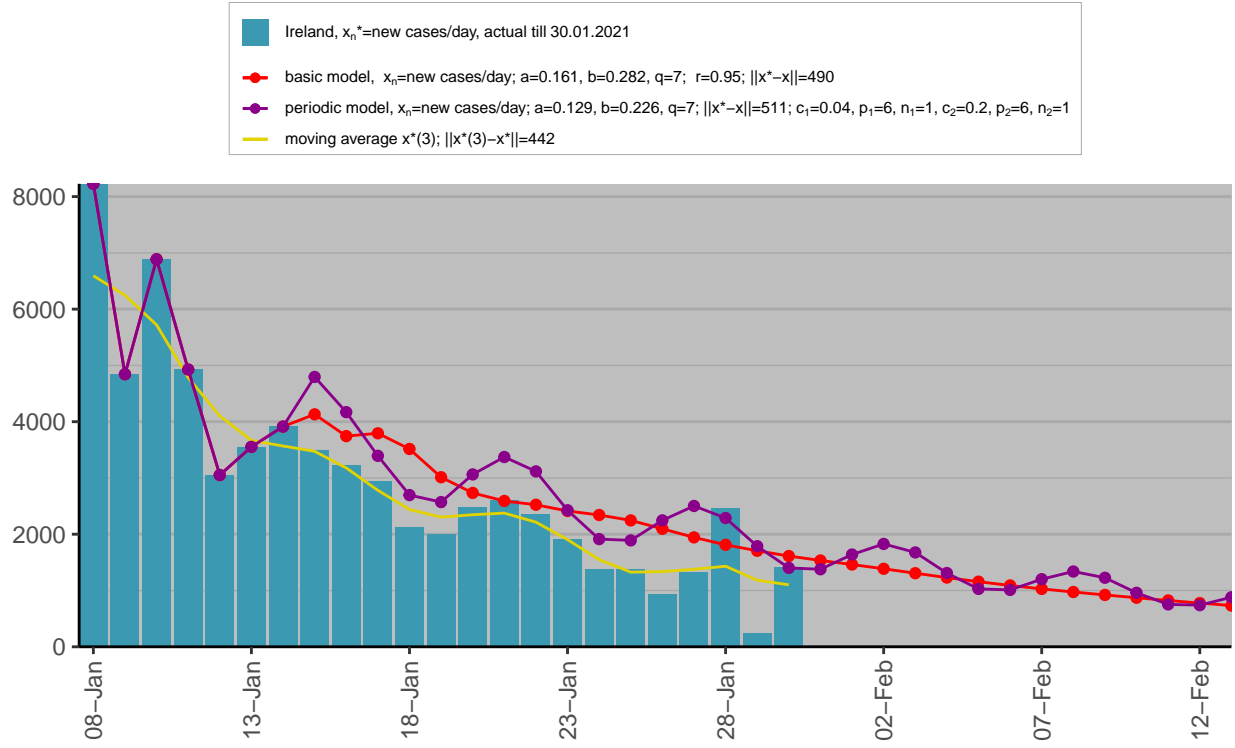Figure 7: Comparison of basic model with moving averages, Ireland

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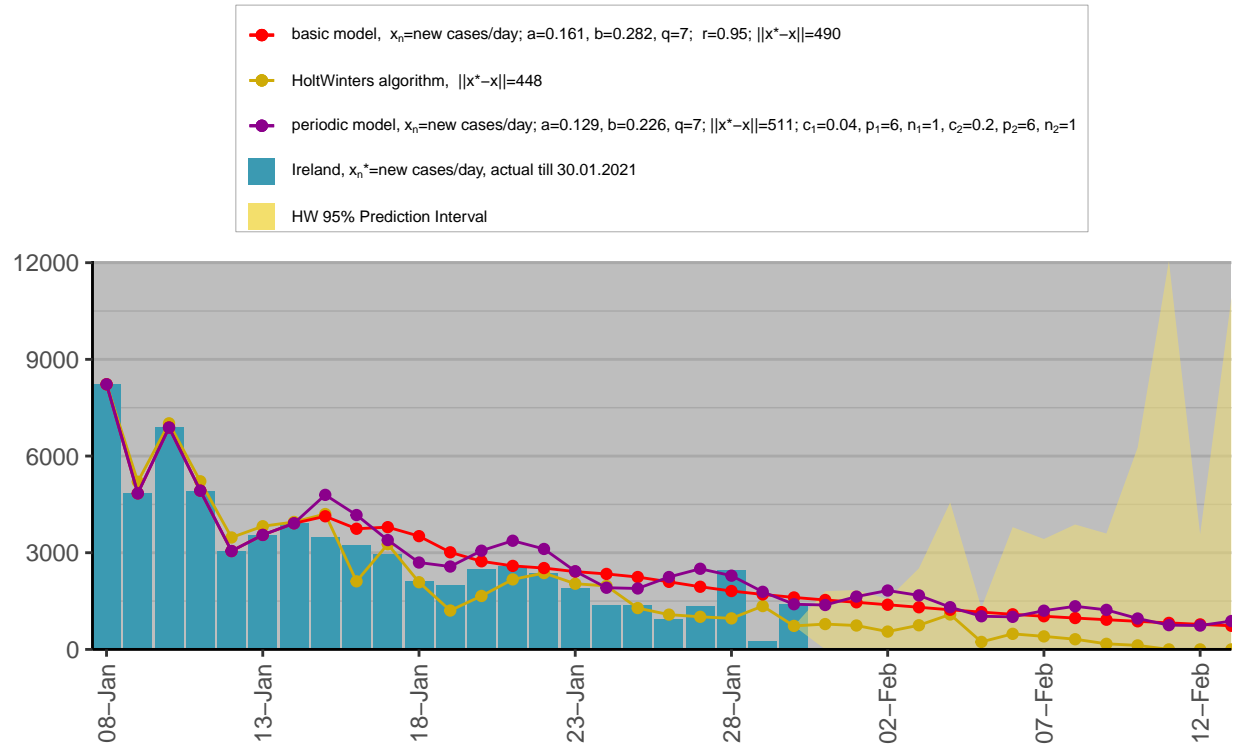

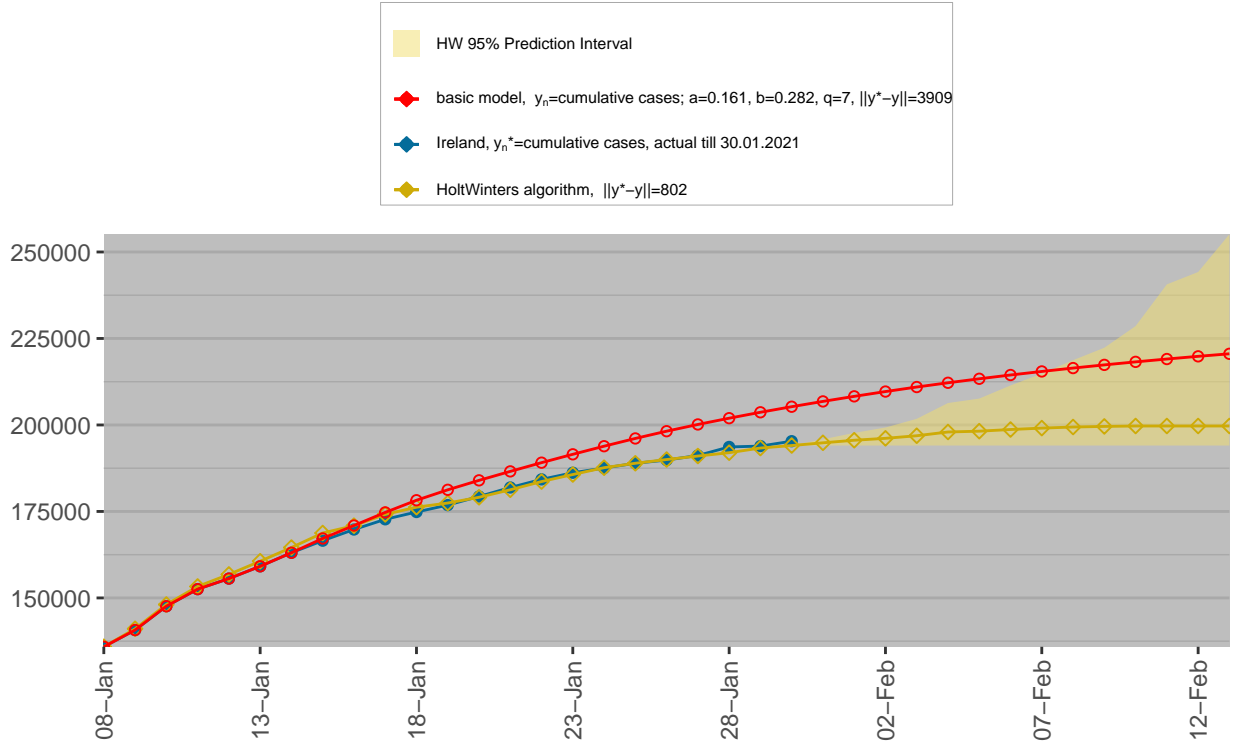Figure 9: Comparison of basic and periodic models with HoltWinters model, Ireland

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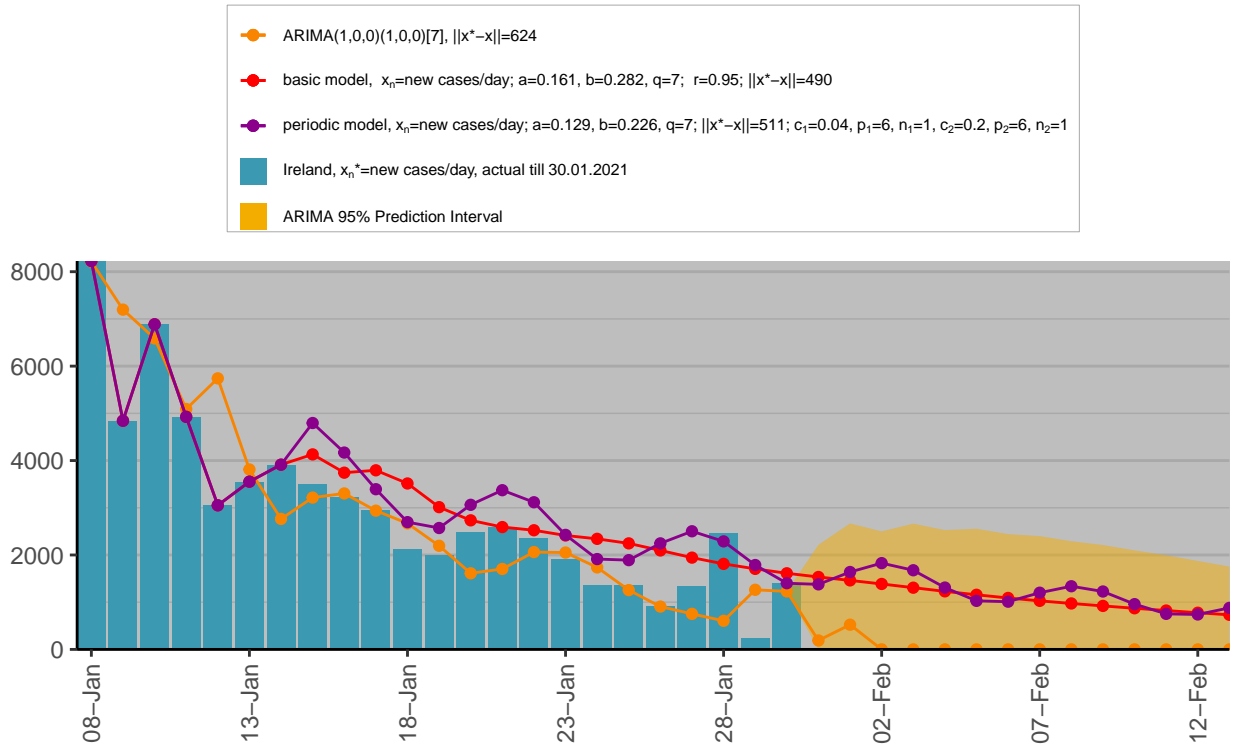

Figure 11: Comparison of basic and periodic models with ARIMA model, Ireland
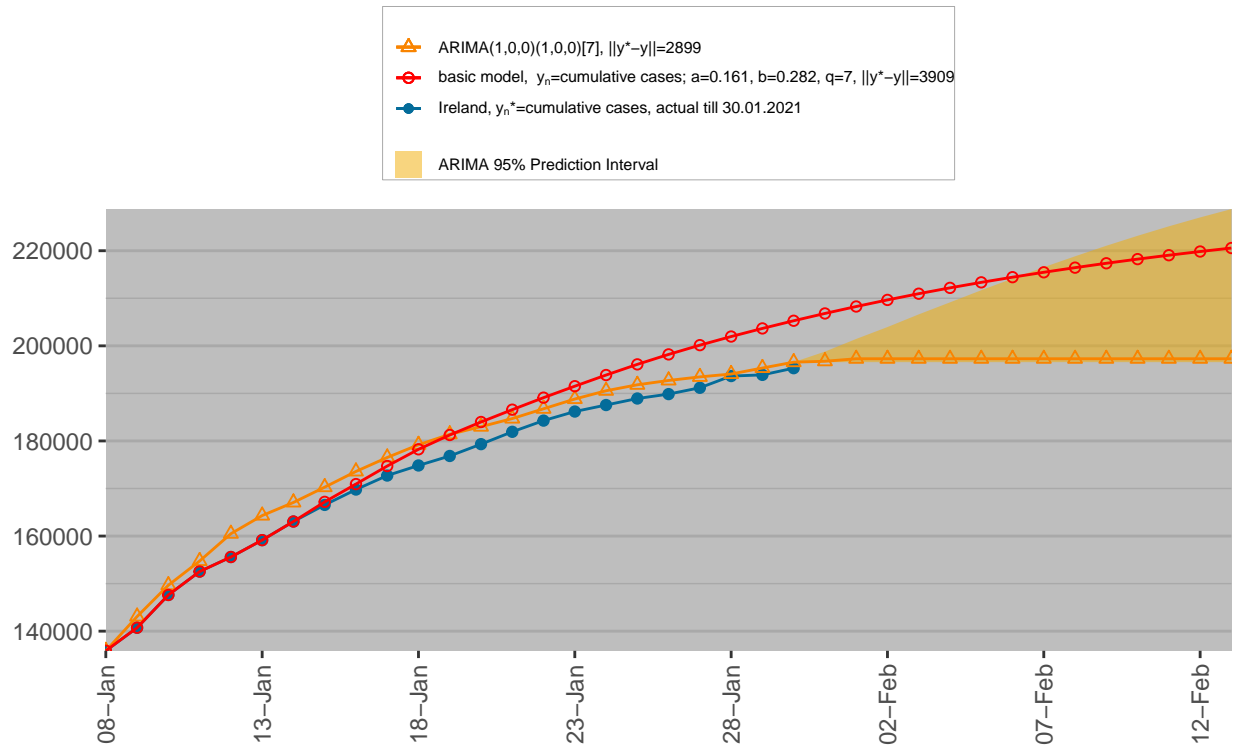
Figure 12: Comparison of Cumulative basic and periodic models with ARIMA model, Ireland
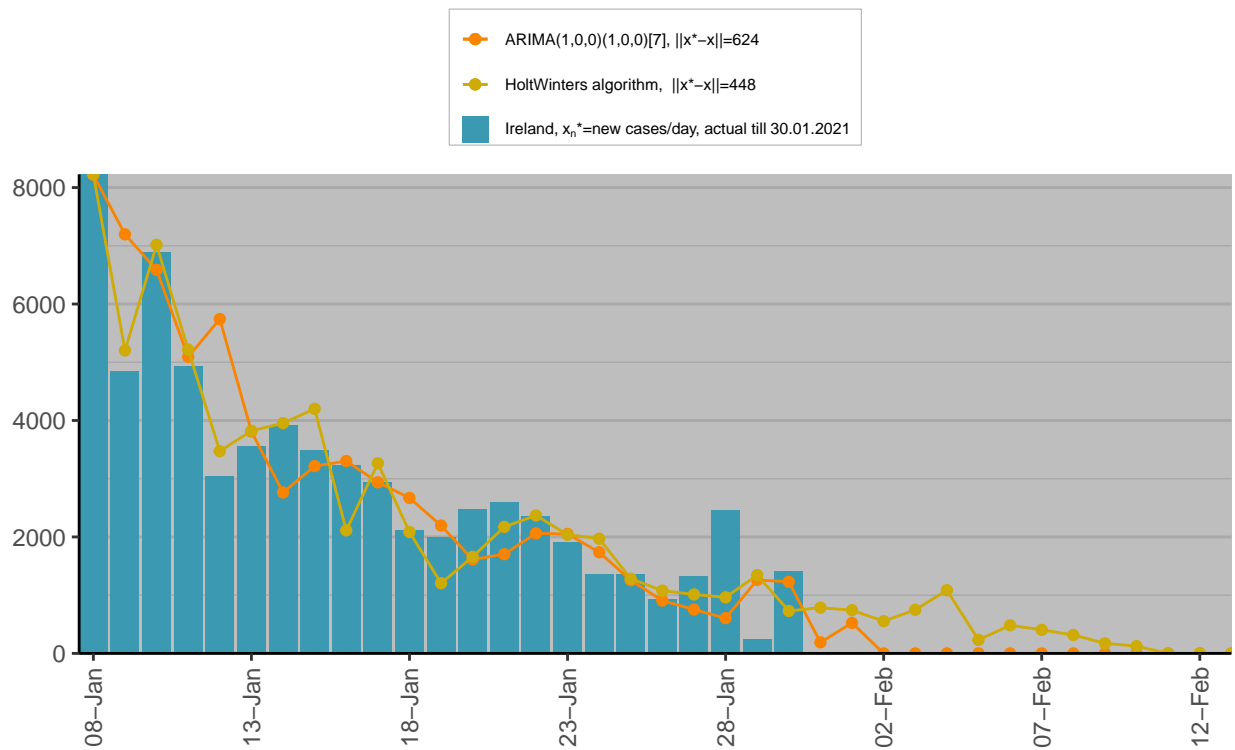

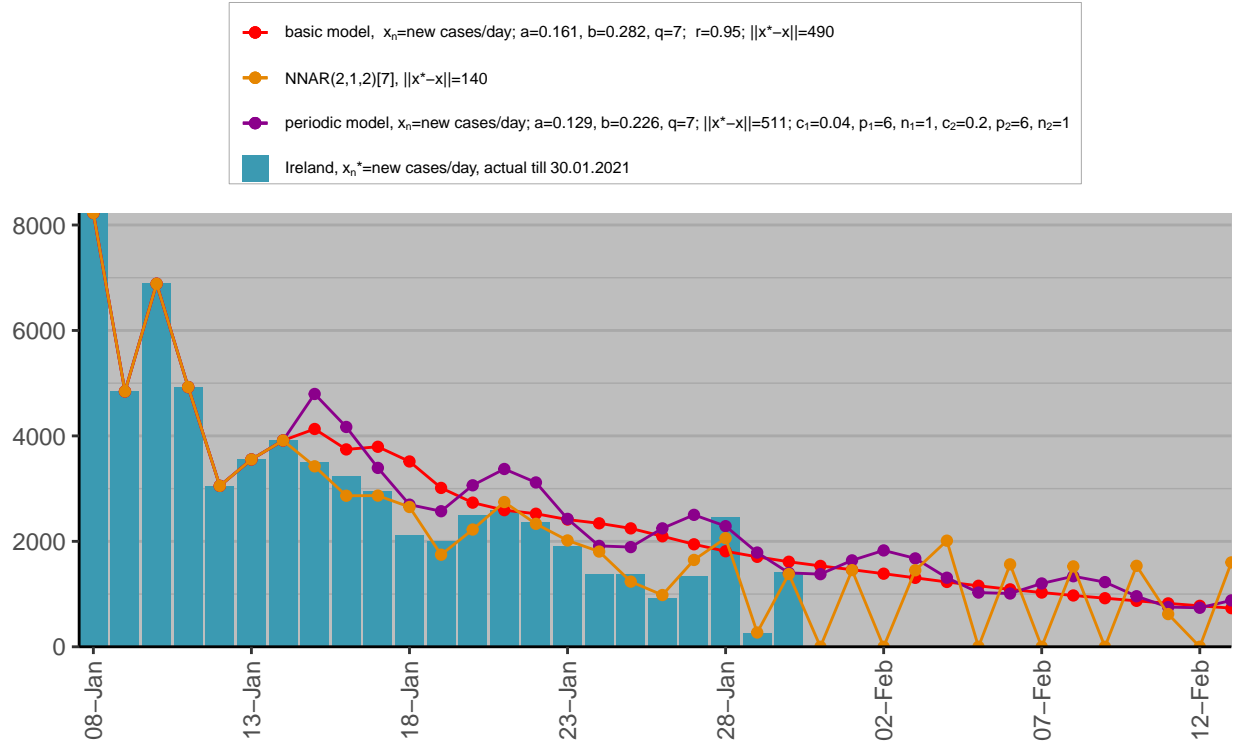Figure 13: Comparison of HoltWinters and ARIMA models, Ireland

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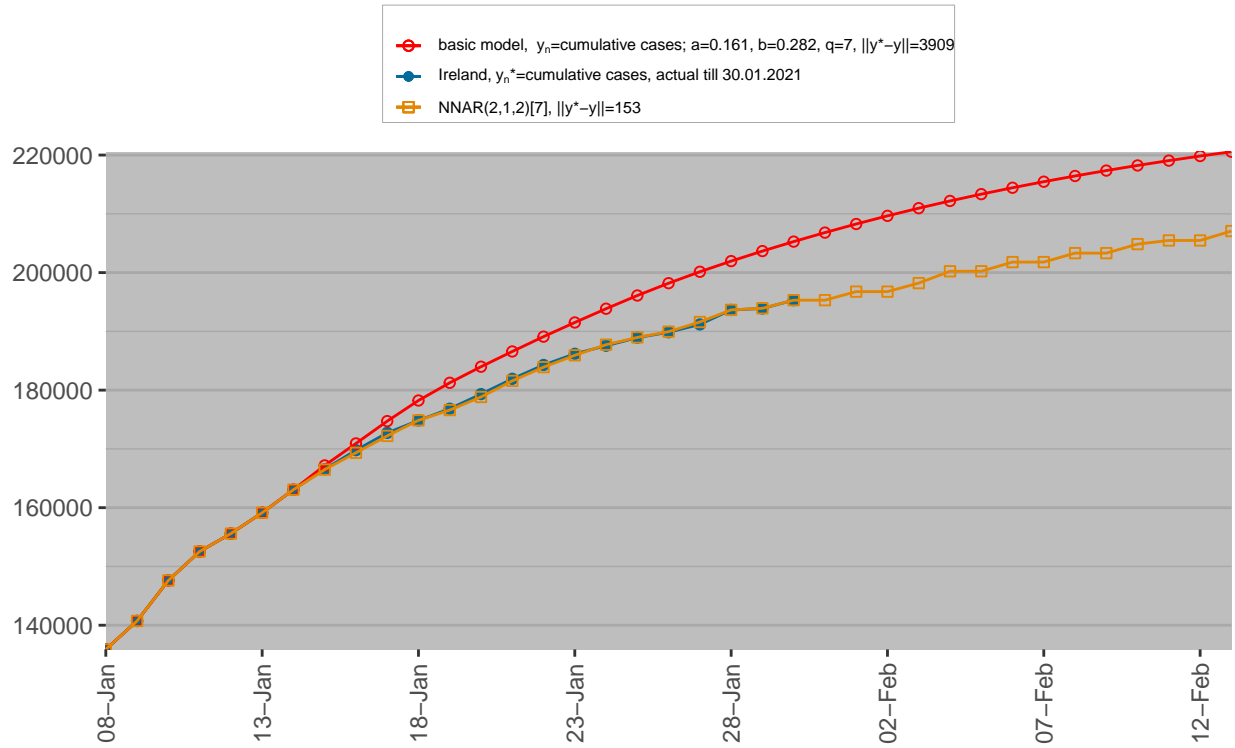

Figure 15: Comparison of Cumulative basic and periodic models with Neural Network model, Ireland
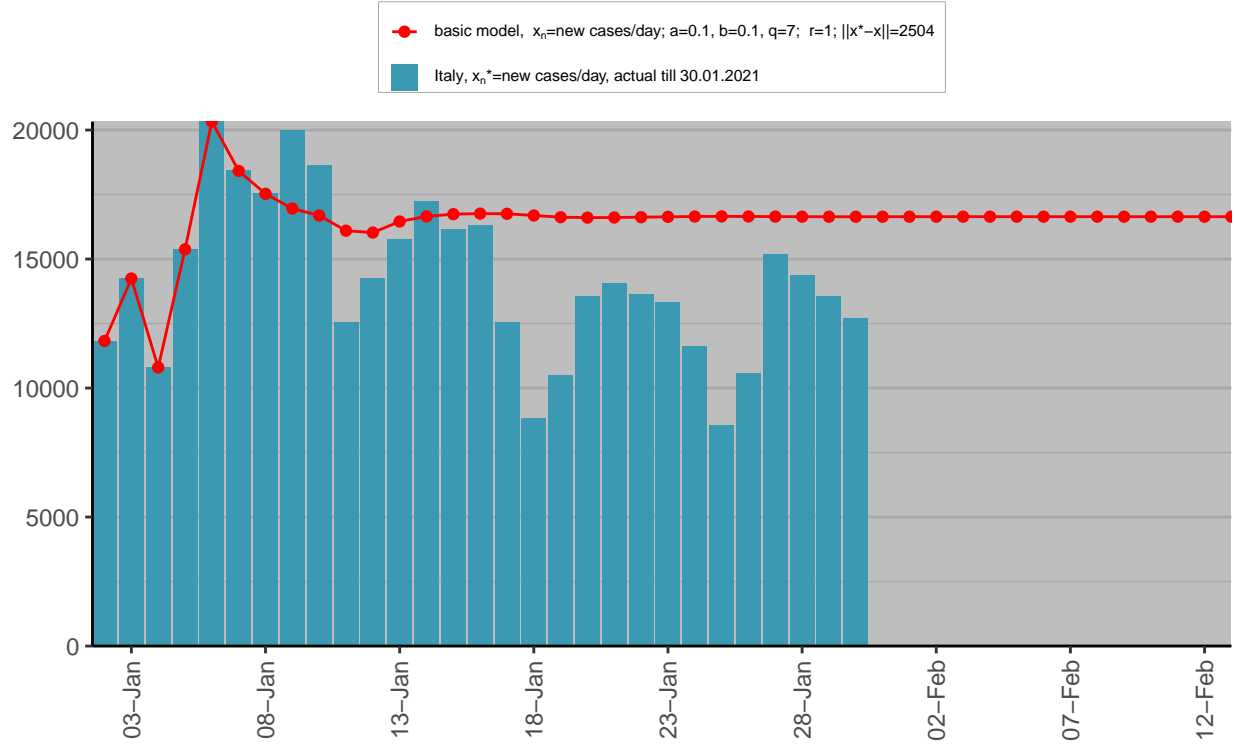
Figure 16: Comparison of the basic model with the actual data, Italy (x-diagram)
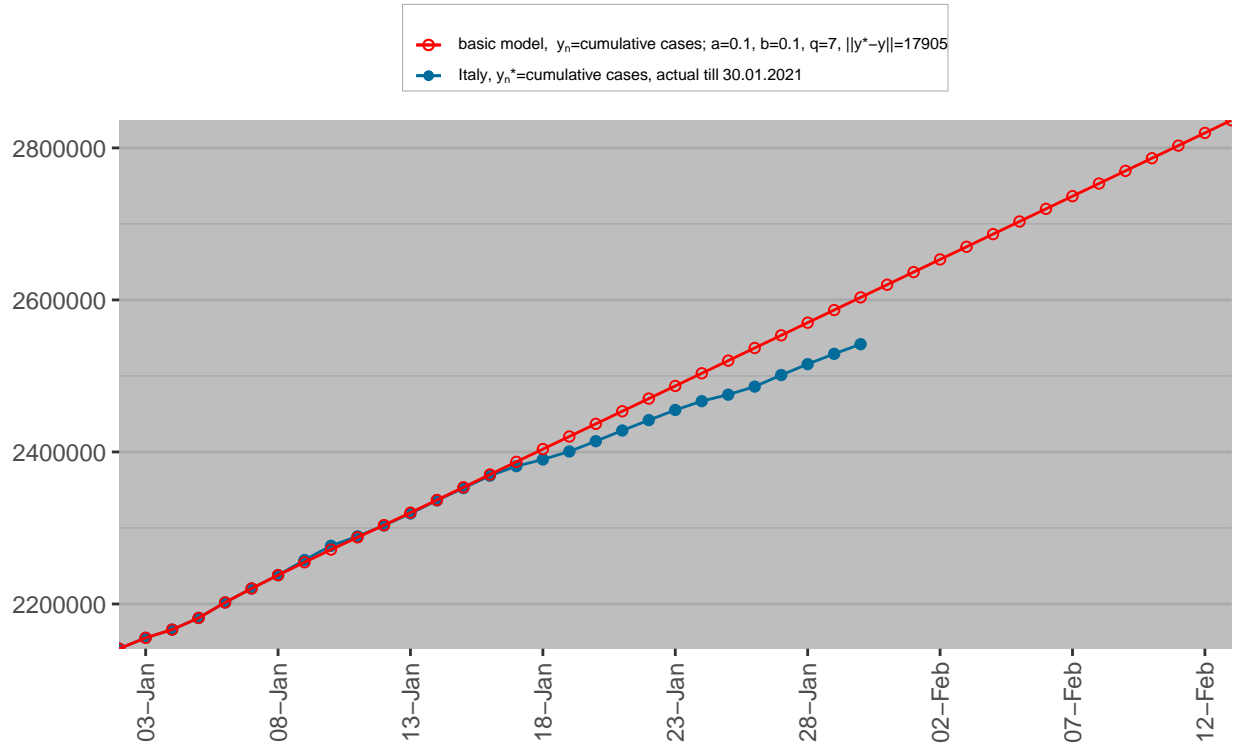

Figure 17: Comparison of the basic model with the actual data, Italy (x-diagram)
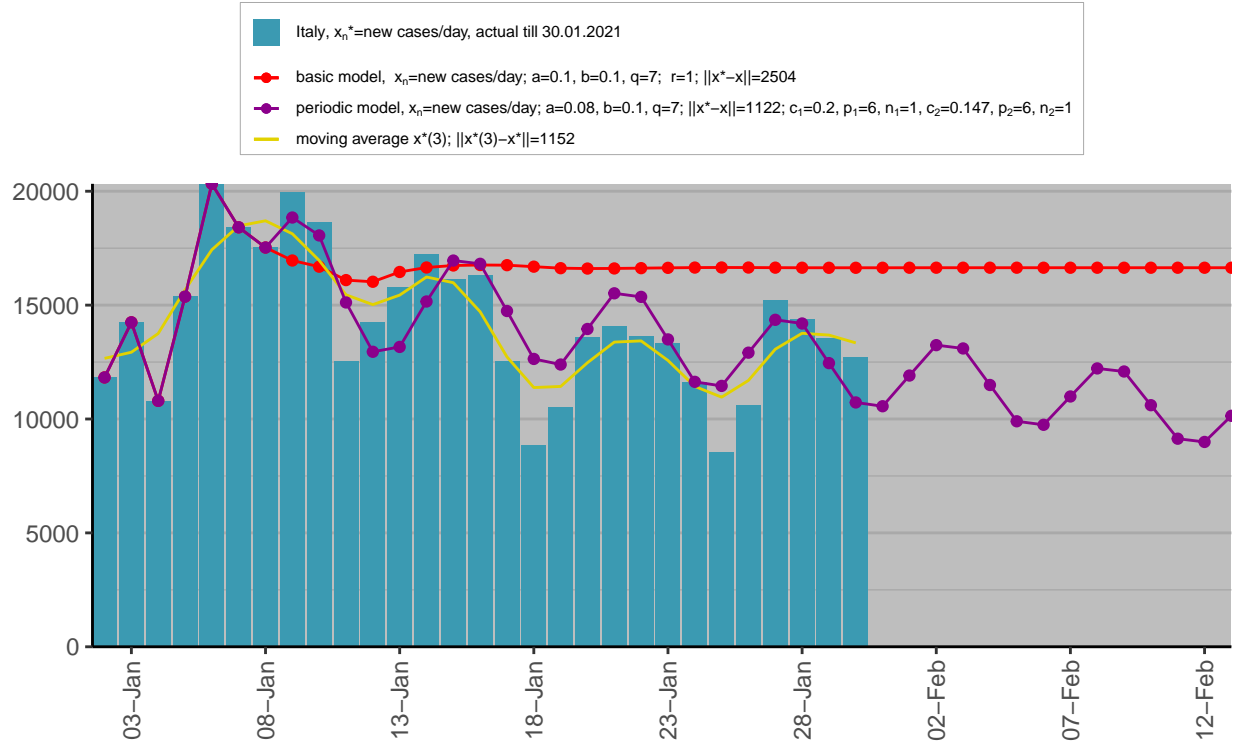
Figure 18: Comparison of basic and periodic models with moving averages, Italy
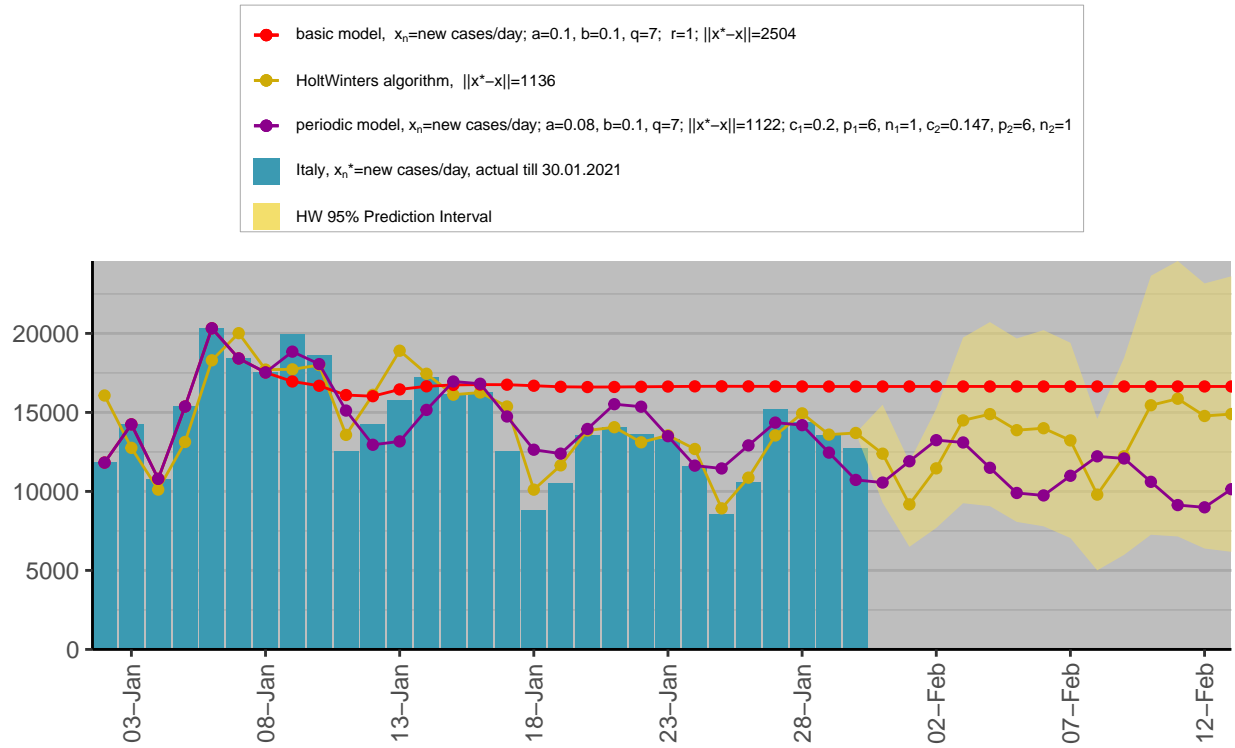

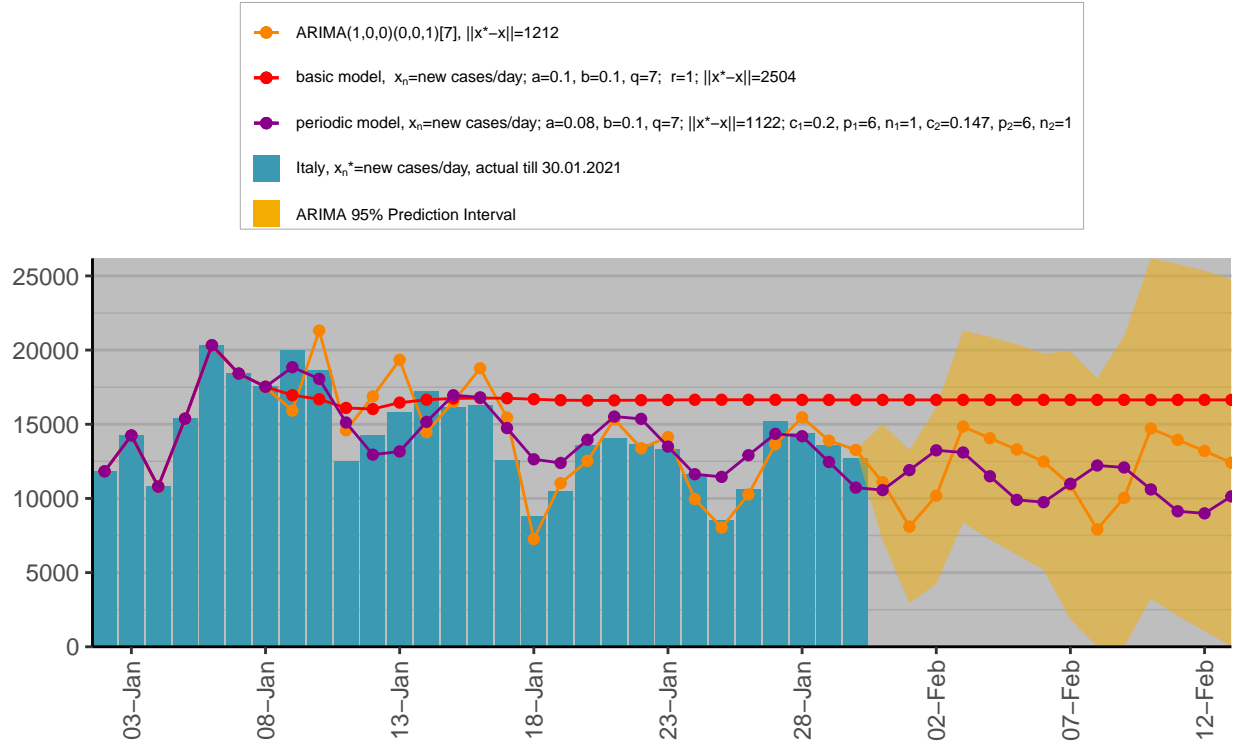Figure 19: Comparison of basic and periodic models with HoltWinters model, Italy

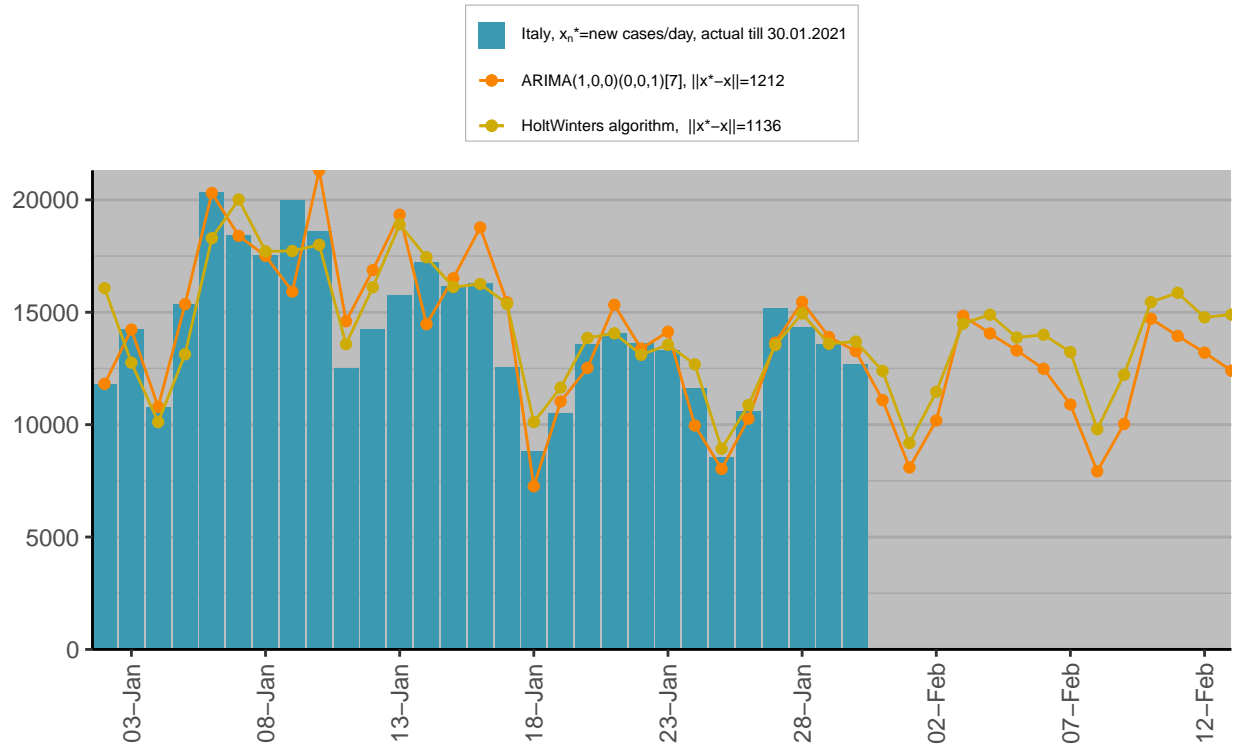Figure 20: Comparison of basic and periodic models with ARIMA model, Italy

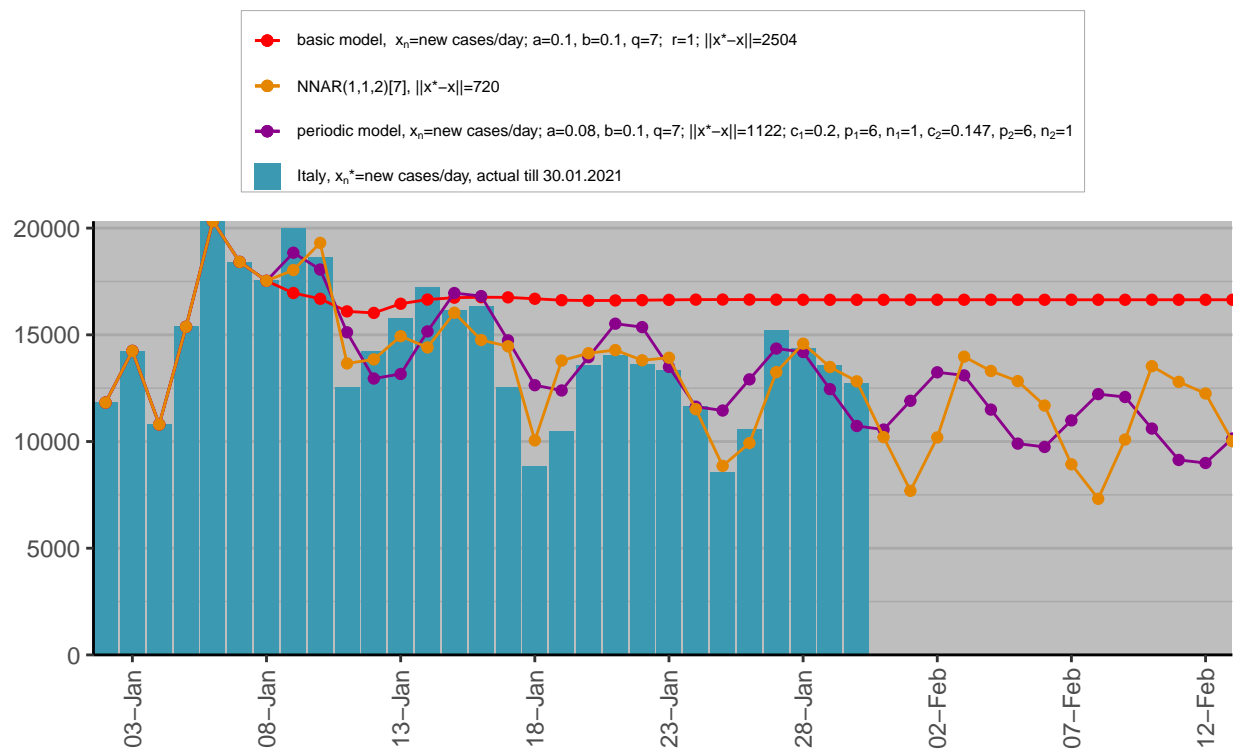Figure 21: Comparison of HoltWinters and ARIMA models, Italy

Figure 22: Comparison of basic and periodic models with Neural Network model, Italy

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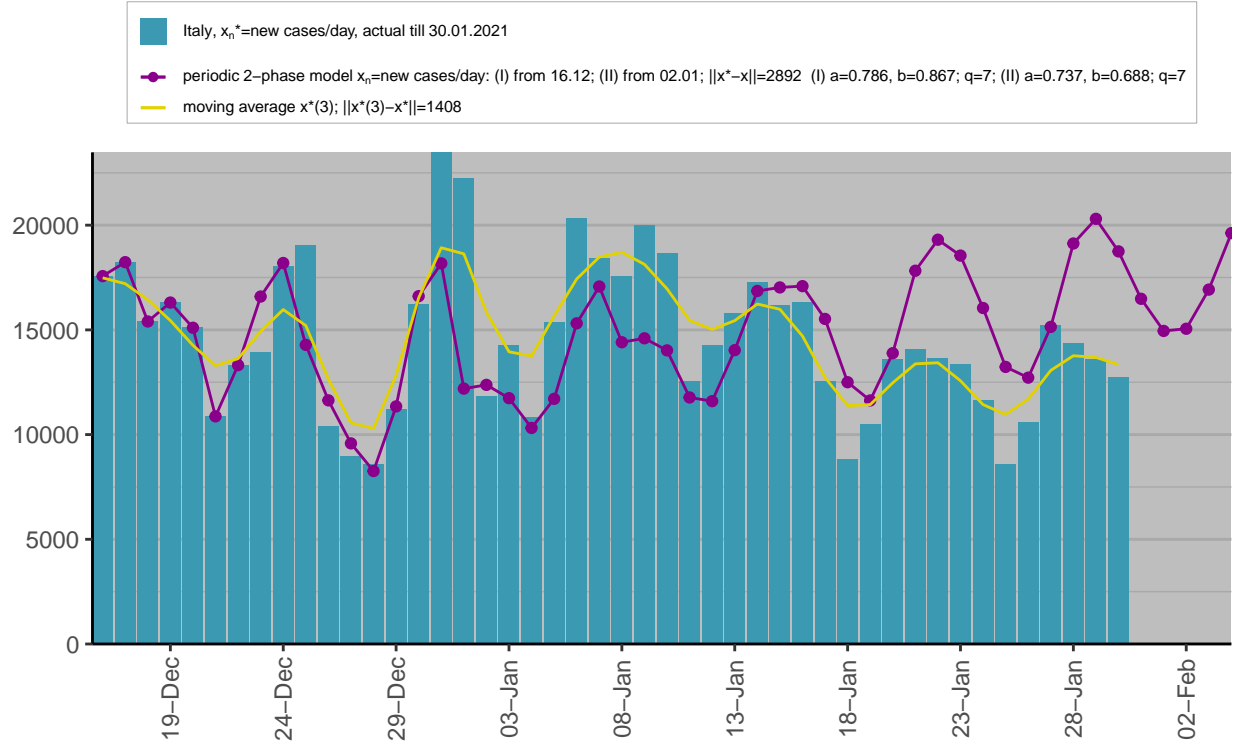
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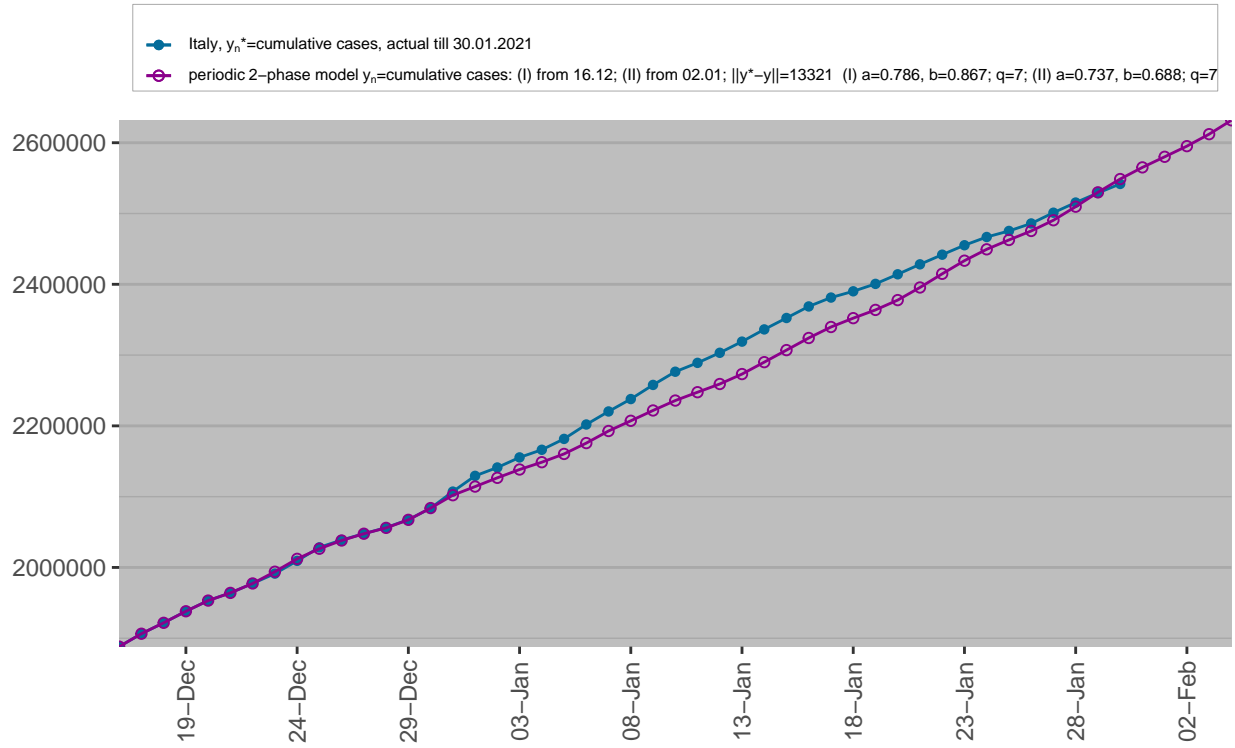Figure 23: A multi-phase periodic model for Italy (x-diagram)

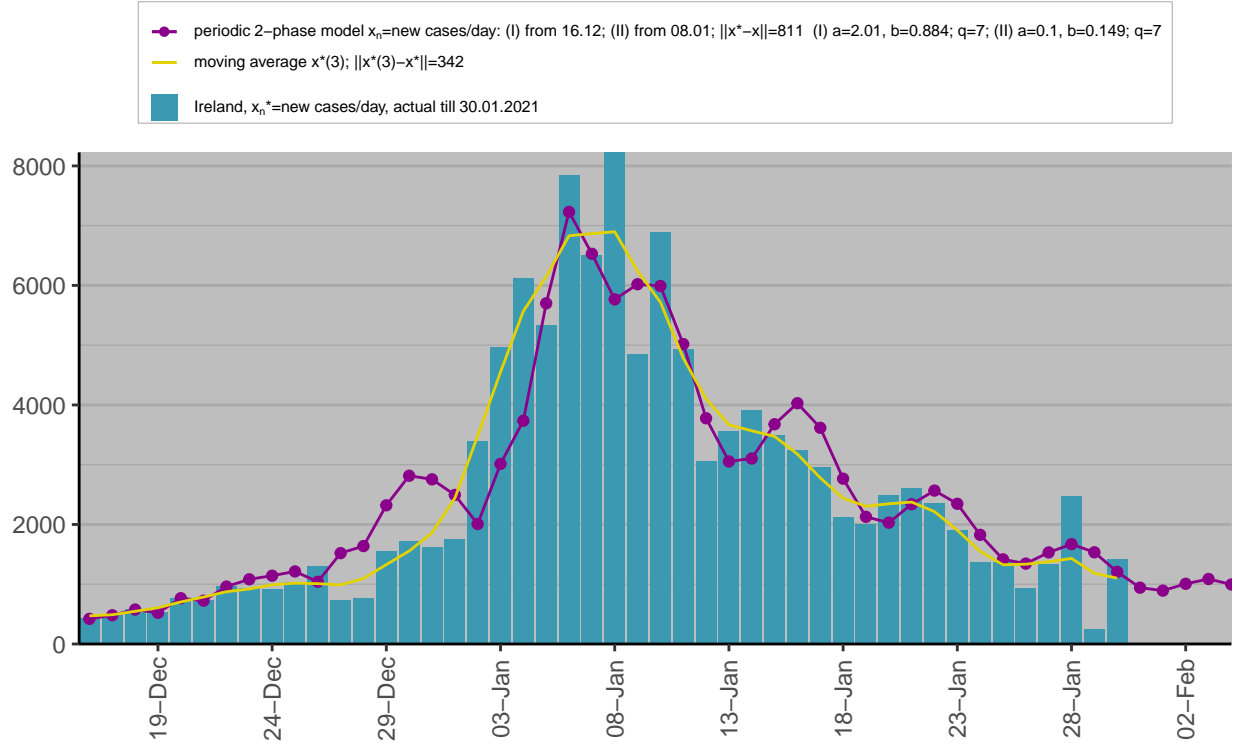Figure 24: A multi-phase periodic model for Italy (y-diagram)
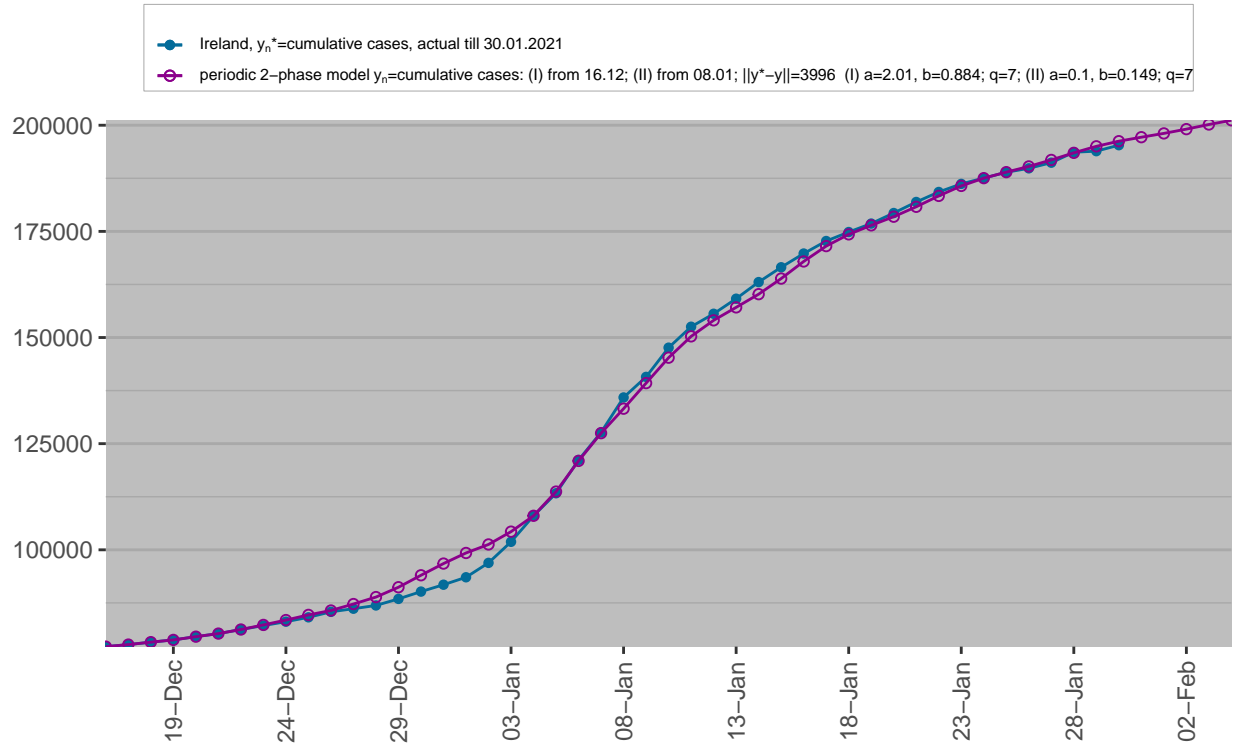
13

Figure 25: A multi-phase periodic model for Ireland (x-diagram)

Figure 26: A multi-phase periodic model for Ireland (y-diagram)

14