A: Grey Model

B: Neural Network

Fitted — Forecasted — Observed —
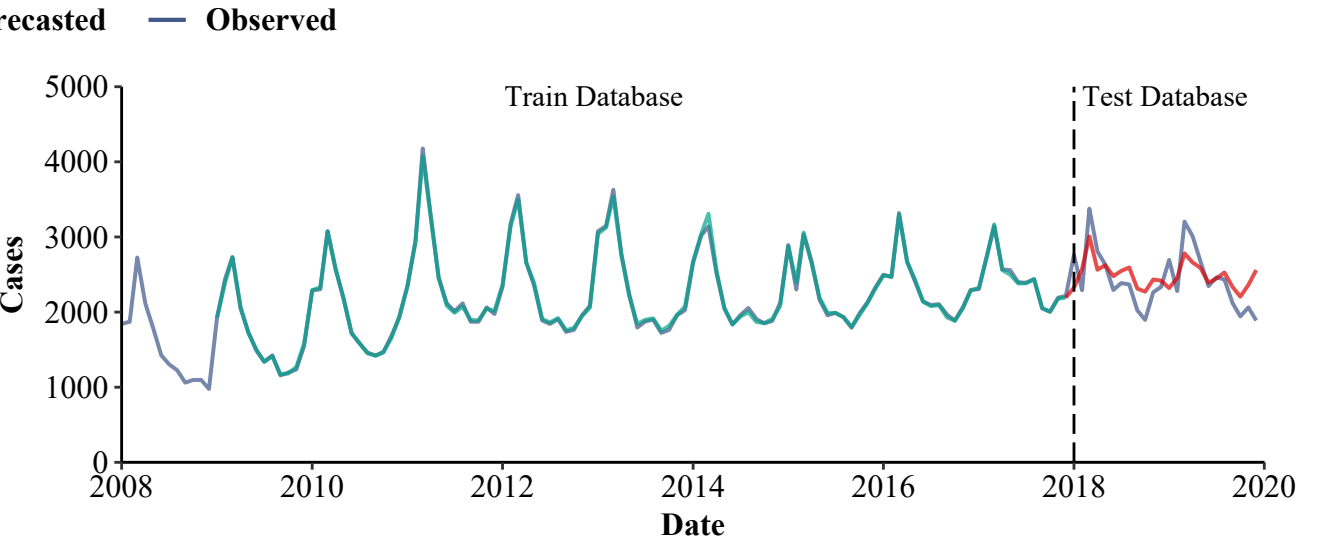
C: STL
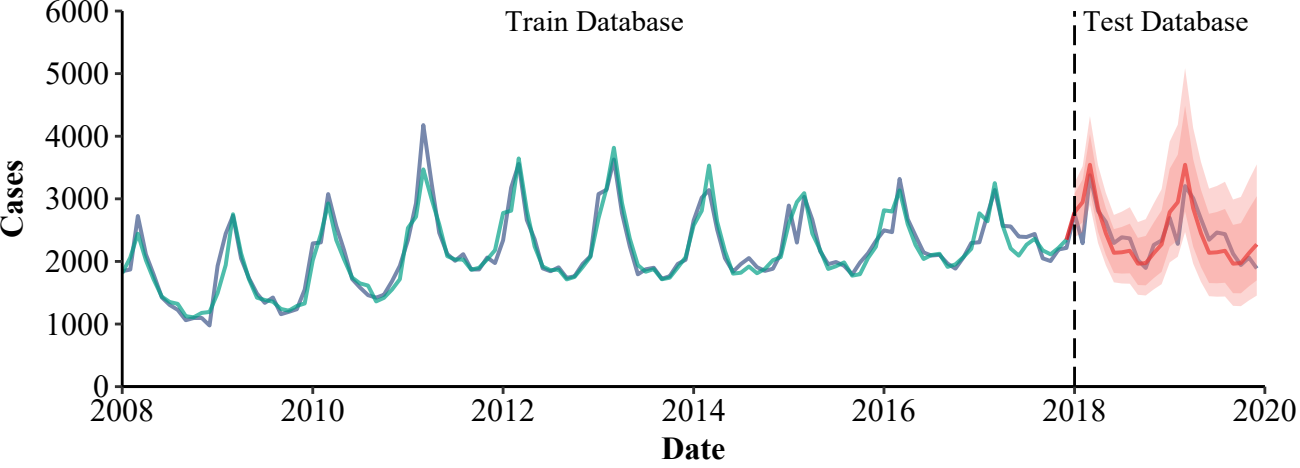
D: ETS

E: SARIMA

F: Hybrid

G: Multiple models

ETS — Hybrid — Observed — SARIMA — STL —
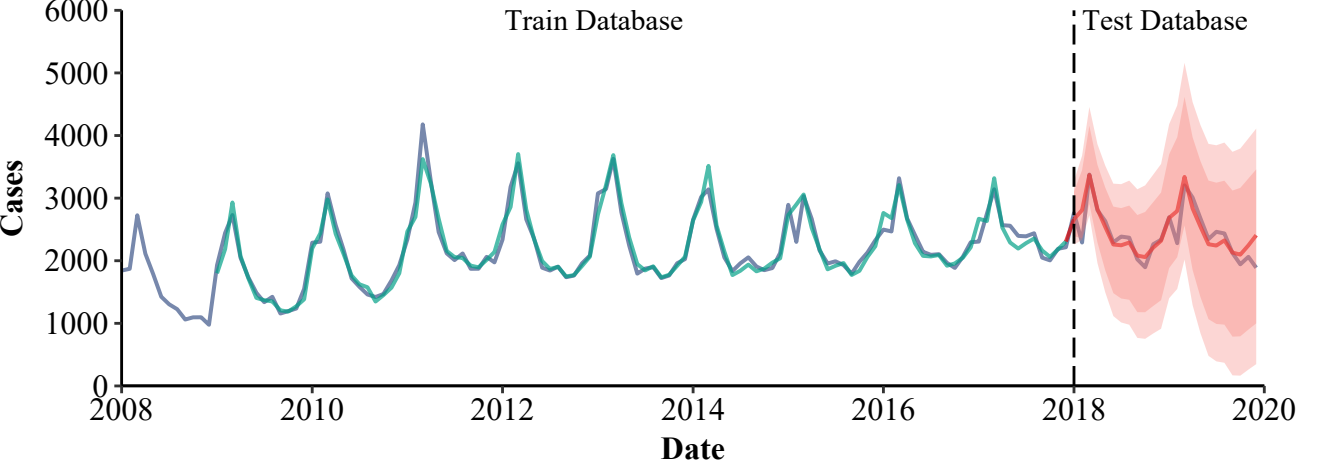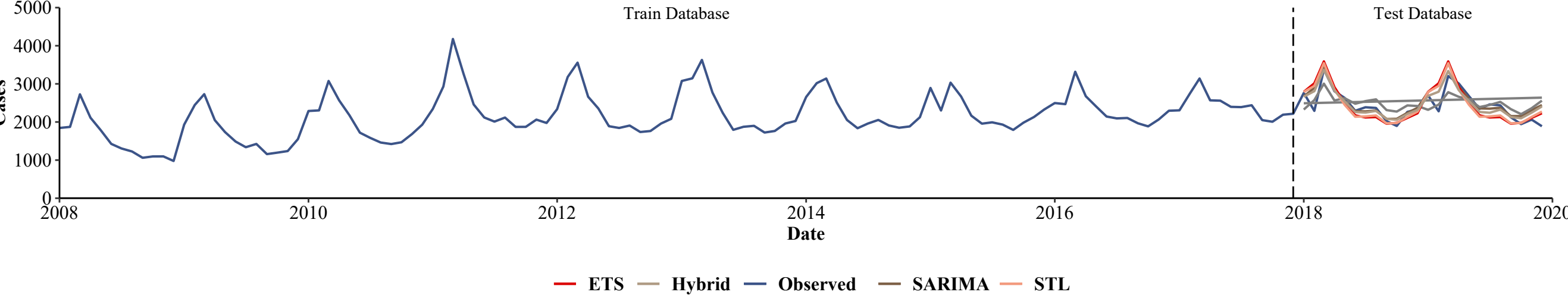
H : RMSE of Models

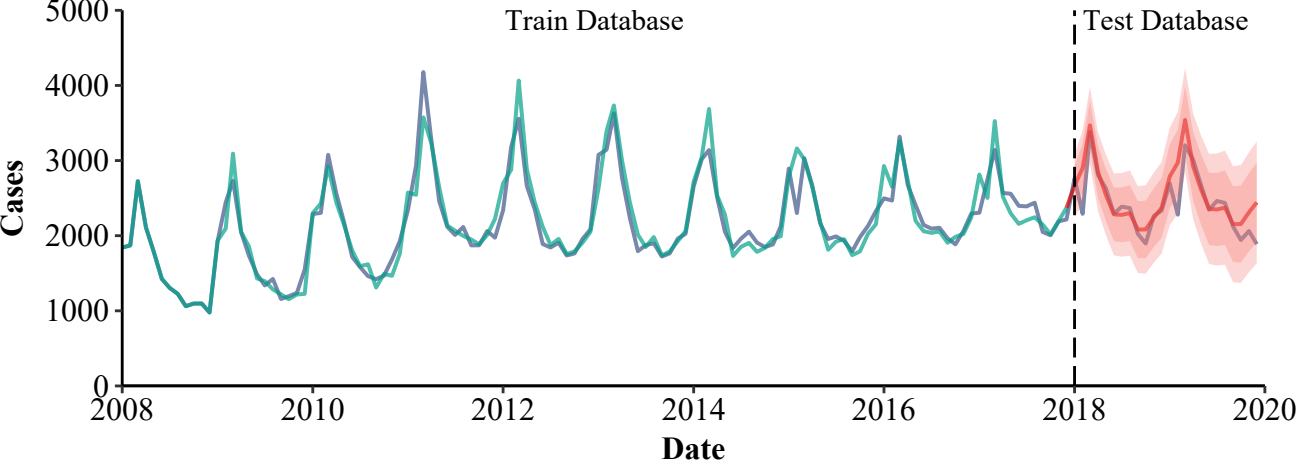| Method	Train	Test	Train and Test
Grey Model	545.01	423.37	526.69
Neural Network	32.87	287.65	126.21
STL	184.88	264.93	200.46
ETS	198.99	282.50	215.17
SARIMA	195.77	249.88	205.78
Hybrid*	146.48	211.28	160.22

*Hybrid: Combined SARIMA, ETS, STL and Neural Network model

I : R-squared of Models

Method	Train	Test	Train and Test
Grey Model	0.11	0.14	0.12
Neural Network	1.00	0.55	0.94
STL	0.90	0.67	0.88
ETS	0.88	0.67	0.86
SARIMA	0.90	0.69	0.88
Hybrid*	0.93	0.72	0.91

*Hybrid: Combined SARIMA, ETS, STL and Neural Network model

J : MAE of Models

Method	Train	Test	Train and Test
Grey Model	419.96	358.81	409.77
Neural Network	22.72	243.44	62.85
STL	130.16	204.94	142.62
ETS	142.30	213.99	154.25
SARIMA	129.23	163.24	134.90
Hybrid*	103.71	146.49	111.49

*Hybrid: Combined SARIMA, ETS, STL and Neural Network model