Emilia Romagna Grand Prix, 2021

Forecasting Kimi Raikkonen's Next 5 Lap Times
Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.33077
Standard Deviation	23.63845
Number of Observations	60
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	25.58	6	0.0003	-0.570	0.166	-0.090	-0.064	0.097	-0.165
12	34.81	12	0.0005	0.298	-0.203	0.023	0.012	0.003	0.008

Variance Estimate	558.8859
Std Error Estimate	23.64077
AIC	549.8293
SBC	549.8293
Number of Residuals	60

* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	25.57	6	0.0003	-0.570	0.166	-0.090	-0.064	0.097	-0.165
12	34.80	12	0.0005	0.298	-0.203	0.023	0.012	0.003	0.008
18	34.82	18	0.0099	-0.011	0.002	0.008	-0.008	0.000	-0.000
24	35.39	24	0.0629	0.012	-0.029	0.009	0.017	0.028	-0.059

Model for variable time	
Period(s) of Differencing	1,1

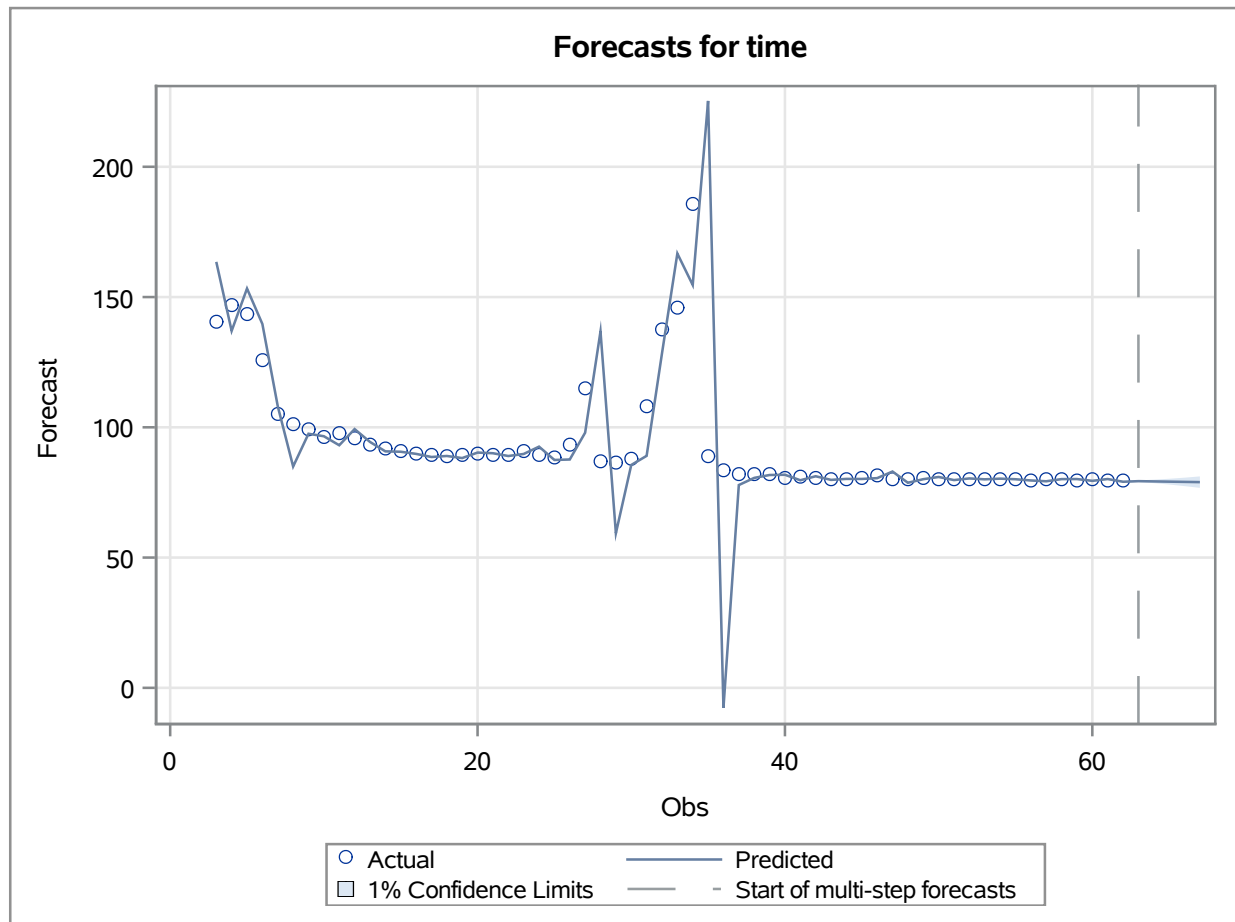**No mean term in this model.**

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			1% Confidence Limits	
Forecasts for variable time				
Obs	**Forecast**	**Std Error**		
63	79.3290	23.6408	79.0327	79.6253
64	79.2360	52.8624	78.5735	79.8985
65	79.1430	88.4557	78.0343	80.2517
66	79.0500	129.4858	77.4271	80.6729
67	78.9570	175.3246	76.7596	81.1544

Forecasts for time

Legend:
- ○ Actual
- □ 1% Confidence Limits
- — Predicted
- – Start of multi-step forecasts

Outlier Detection Summary	
Maximum number searched	2
Number found	2
Significance used	0.05

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		Outlier Details		
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
34	Additive	65.79667	8044.37	<.0001
27	Additive	23.88467	1060.04	<.0001