

# Emilia Romagna Grand Prix, 2021

## Forecasting Esteban Ocon's Next 5 Lap Times

Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.50257
Standard Deviation	18.72702
Number of Observations	60
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	22.07	6	0.0012	-0.477	0.050	-0.048	0.003	-0.133	0.300
12	25.97	12	0.0108	-0.226	0.053	-0.001	-0.008	0.007	0.037

Variance Estimate	350.9538
Std Error Estimate	18.73376
AIC	521.9119
SBC	521.9119
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	22.07	6	0.0012	-0.477	0.050	-0.047	0.003	-0.134	0.300
12	25.97	12	0.0109	-0.226	0.053	-0.001	-0.008	0.007	0.037
18	26.44	18	0.0901	-0.059	0.037	-0.007	-0.002	-0.026	0.017
24	27.13	24	0.2984	0.006	0.009	-0.009	-0.028	0.075	-0.015

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

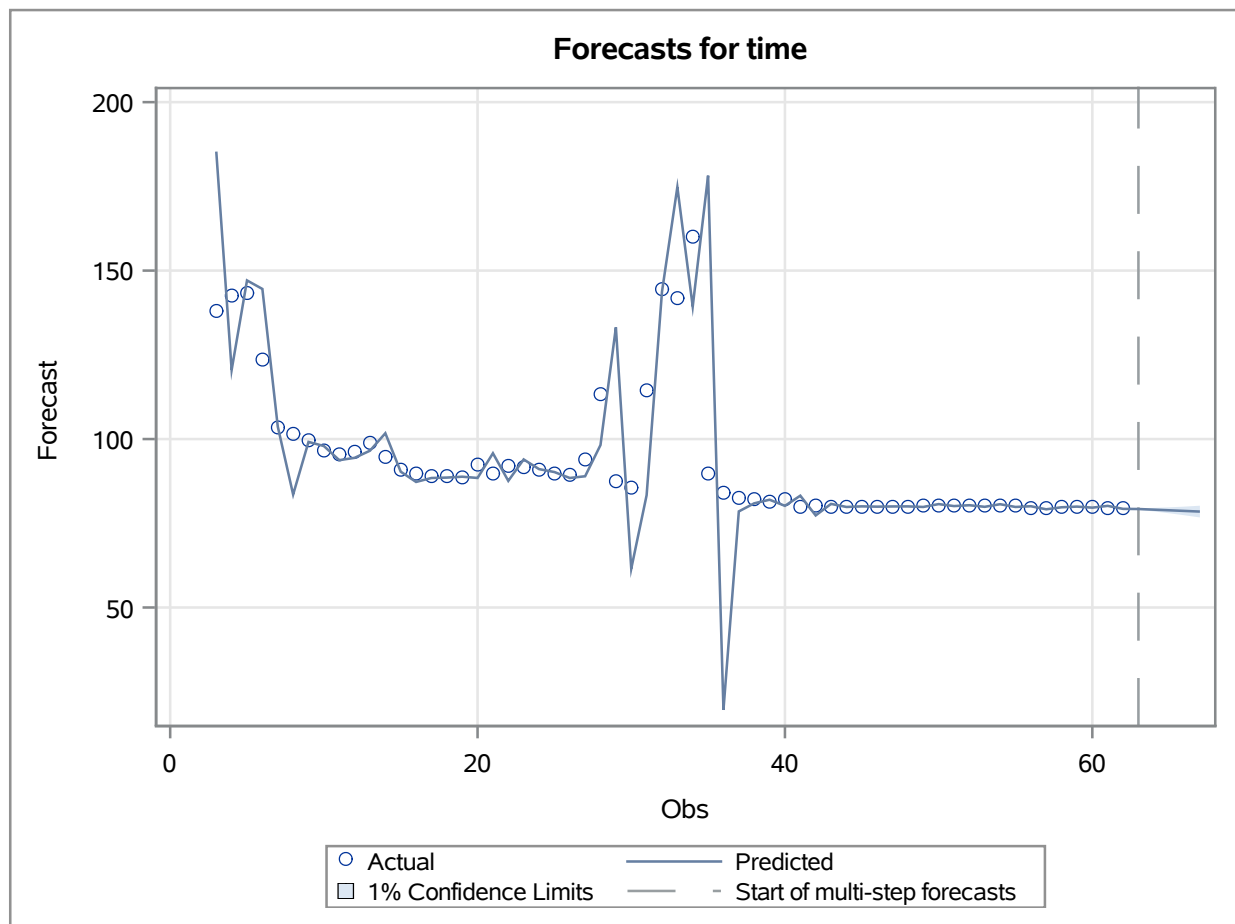
No mean term in this model.

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Forecasts for variable time				
Obs	Forecast	Std Error	1% Confidence Limits	
63	79.2280	18.7338	78.9932	79.4628
64	79.0390	41.8900	78.5140	79.5640
65	78.8500	70.0953	77.9715	79.7285
66	78.6610	102.6090	77.3750	79.9470
67	78.4720	138.9333	76.7307	80.2133



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
35	Shift	-76.46200	5935.36	<.0001
28	Additive	21.74283	1439.82	<.0001