

# Emilia Romagna Grand Prix, 2021

## Forecasting Mick Schumacher's Next 5 Lap Times

Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.16803
Standard Deviation	21.32571
Number of Observations	59
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	39.77	6	<.0001	-0.677	0.355	-0.225	0.033	0.023	0.013
12	60.57	12	<.0001	-0.019	-0.121	0.253	-0.274	0.300	-0.194

Variance Estimate	454.8142
Std Error Estimate	21.32637
AIC	528.5082
SBC	528.5082
Number of Residuals	59

\* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	39.78	6	<.0001	-0.677	0.355	-0.225	0.033	0.023	0.013
12	60.57	12	<.0001	-0.019	-0.121	0.253	-0.274	0.300	-0.194
18	73.25	18	<.0001	0.026	0.062	-0.171	0.198	-0.177	0.212
24	77.96	24	<.0001	-0.170	0.092	-0.047	0.035	0.004	-0.098

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

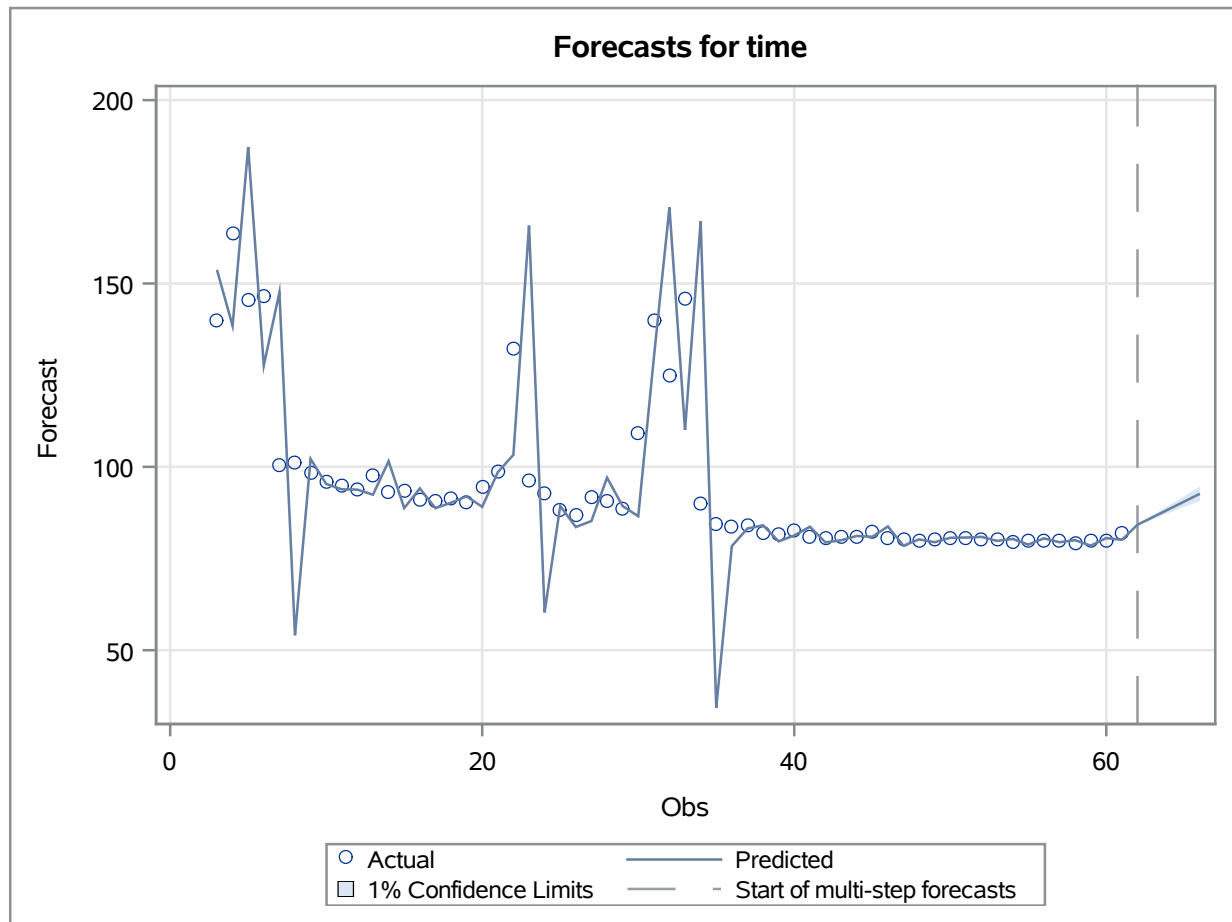
No mean term in this model.

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Forecasts for variable time				
Obs	Forecast	Std Error	1% Confidence Limits	
62	84.2130	21.3264	83.9457	84.4803
63	86.3240	47.6872	85.7263	86.9217
64	88.4350	79.7960	87.4349	89.4351
65	90.5460	116.8094	89.0820	92.0100
66	92.6570	158.1606	90.6747	94.6393



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
33	Additive	39.89767	1116.43	<.0001
22	Additive	33.41017	782.88	<.0001