

The AUTOREG Procedure

Dependent Variable	logreturn
--------------------	-----------

The AUTOREG Procedure

Ordinary Least Squares Estimates			
SSE	0.13566374	DFE	1077
MSE	0.0001260	Root MSE	0.01122
SBC	-6614.6986	AIC	-6619.6814
MAE	0.00707001	AICC	-6619.6777
MAPE	99.9429528	HQC	-6617.7945
Durbin-Watson	1.9328	Total R-Square	0.0000

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	-4.633E-6	0.000342	-0.01	0.9892

Algorithm converged.

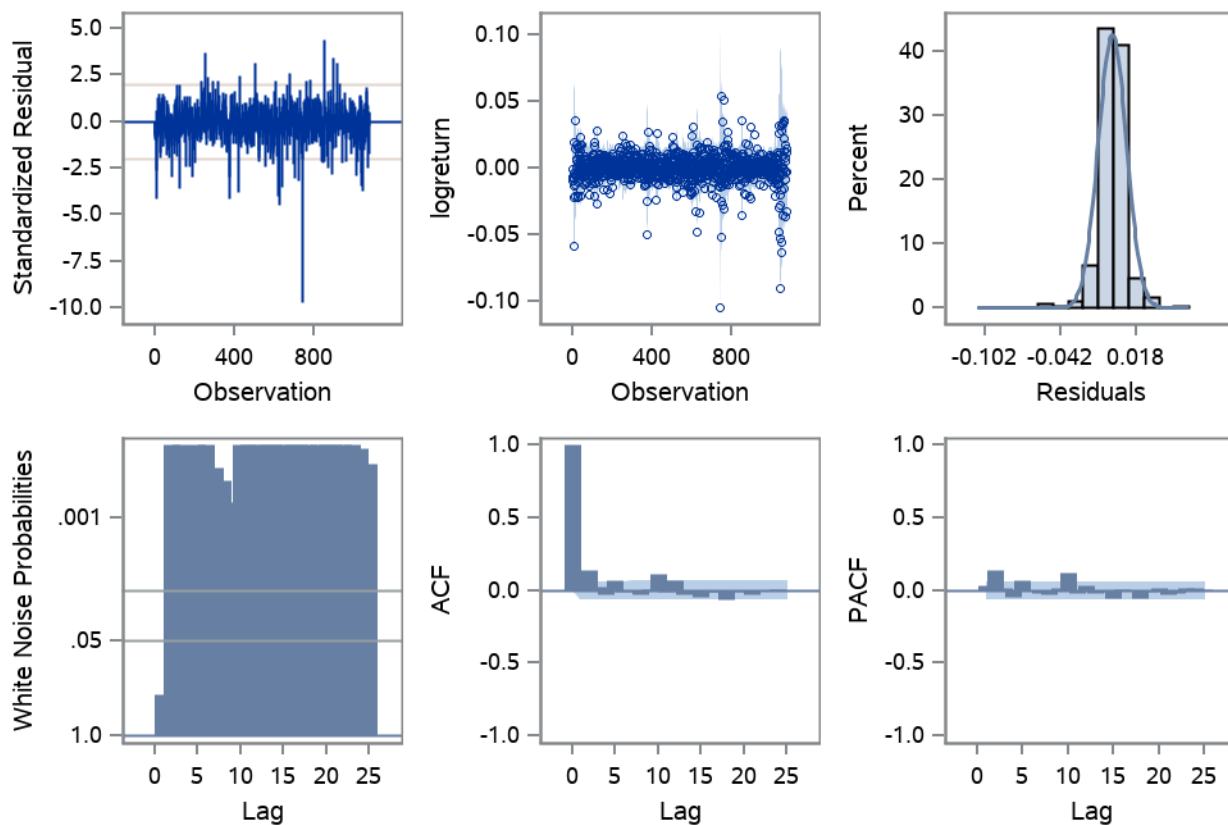
The AUTOREG Procedure

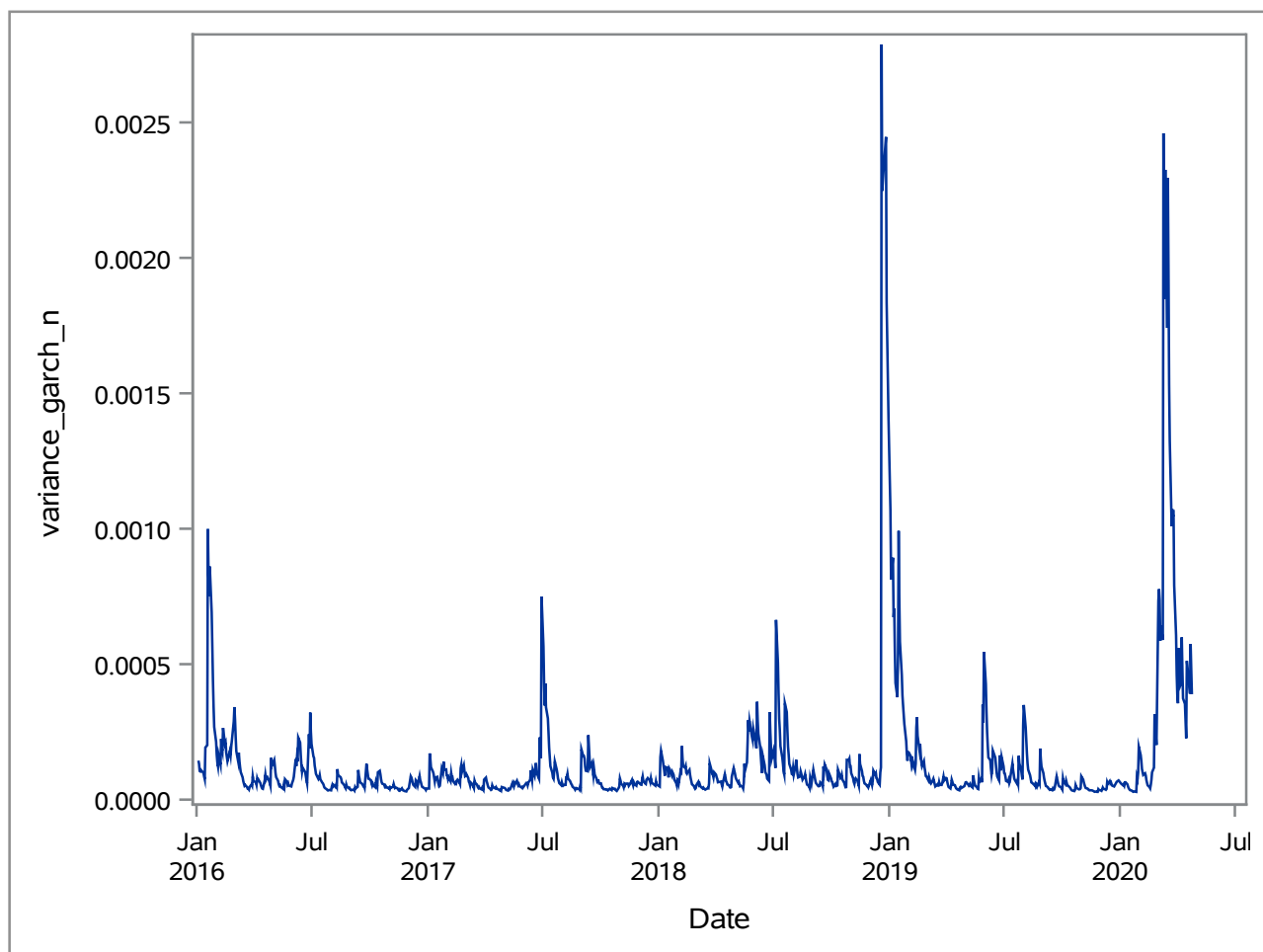
GARCH Estimates			
SSE	0.13657787	Observations	1078
MSE	0.0001267	Uncond Var	0.00051825
Log Likelihood	3507.86142	Total R-Square	.
SBC	-6987.7914	AIC	-7007.7228
MAE	0.00707234	AICC	-7007.6856
MAPE	147.61589	HQC	-7000.1752
		Normality Test	4902.3054
		Pr > ChiSq	<.0001

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	0.000916	0.000259	3.54	0.0004
ARCH0	1	6.0023E-6	1.0088E-6	5.95	<.0001
ARCH1	1	0.2420	0.0164	14.73	<.0001
GARCH1	1	0.7465	0.0174	42.91	<.0001

The AUTOREG Procedure

Fit Diagnostics for logreturn

**Observations 1078 MSE 0.000126 Model DF 1**



The AUTOREG Procedure

Dependent Variable	logreturn
--------------------	-----------

The AUTOREG Procedure

Ordinary Least Squares Estimates			
SSE	0.13566374	DFE	1077
MSE	0.0001260	Root MSE	0.01122
SBC	-6614.6986	AIC	-6619.6814
MAE	0.00707001	AICC	-6619.6777
MAPE	99.9429528	HQC	-6617.7945
Durbin-Watson	1.9328	Total R-Square	0.0000

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	-4.633E-6	0.000342	-0.01	0.9892

Algorithm converged.

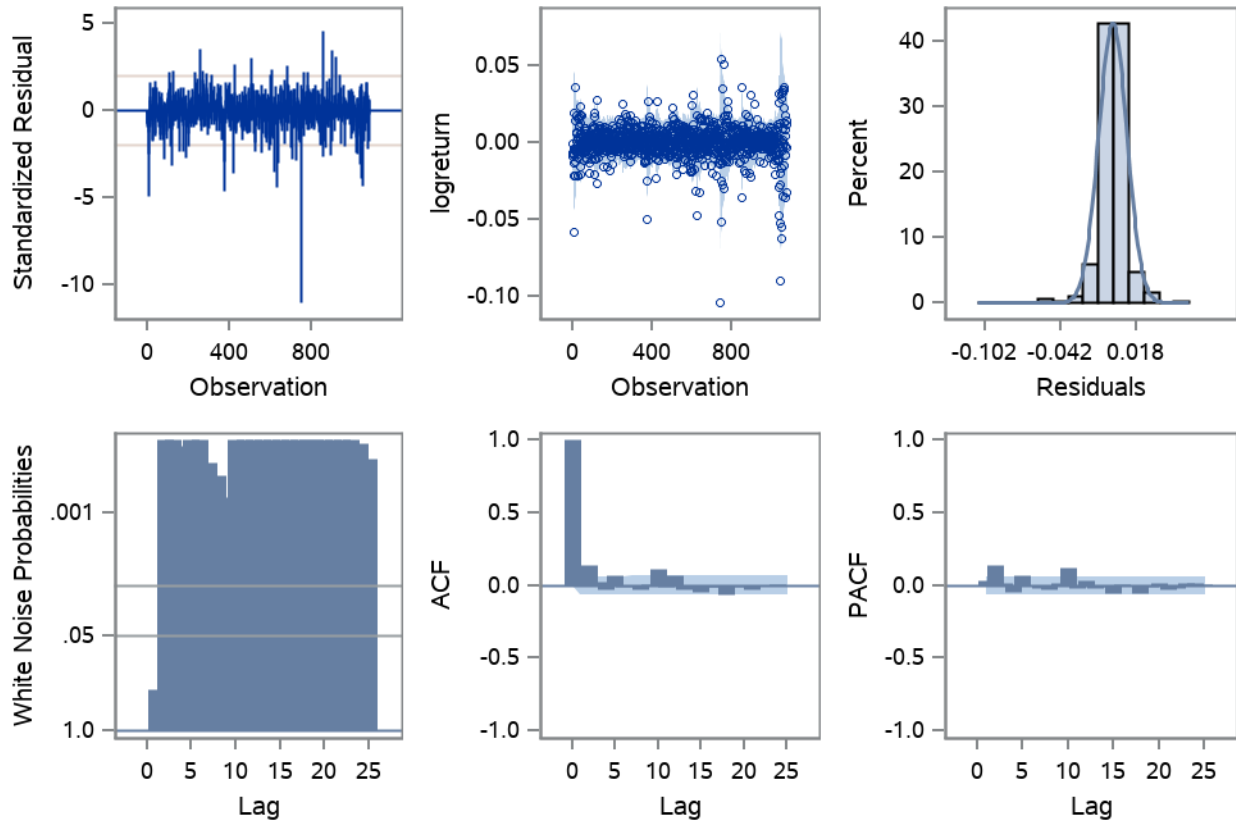
The AUTOREG Procedure

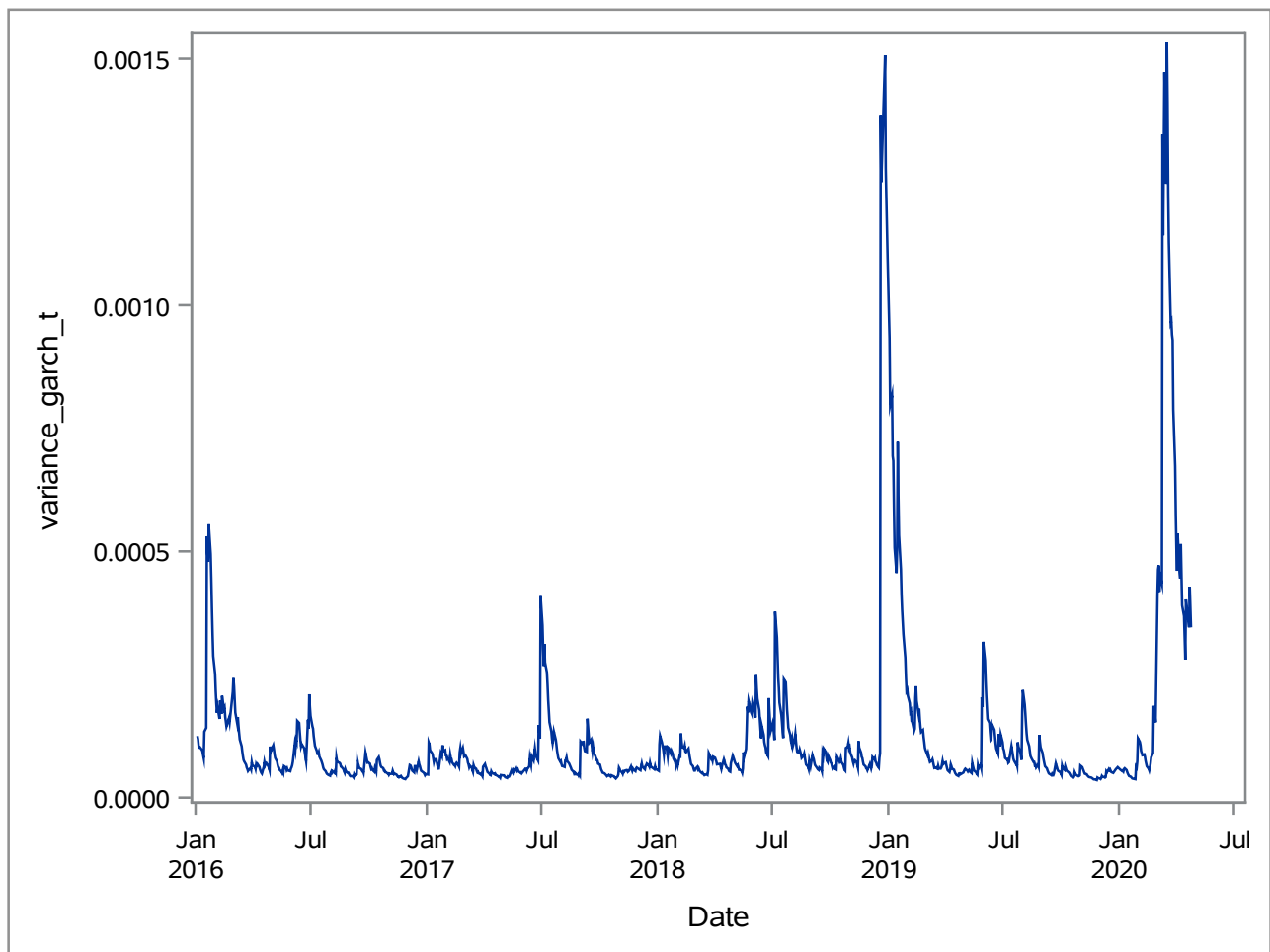
GARCH Estimates			
SSE	0.13601633	Observations	1078
MSE	0.0001262	Uncond Var	0.00012272
Log Likelihood	3612.2152	Total R-Square	.
SBC	-7189.5161	AIC	-7214.4304
MAE	0.00706173	AICC	-7214.3744
MAPE	127.022122	HQC	-7204.9958
		Normality Test	10809.3398
		Pr > ChiSq	<.0001

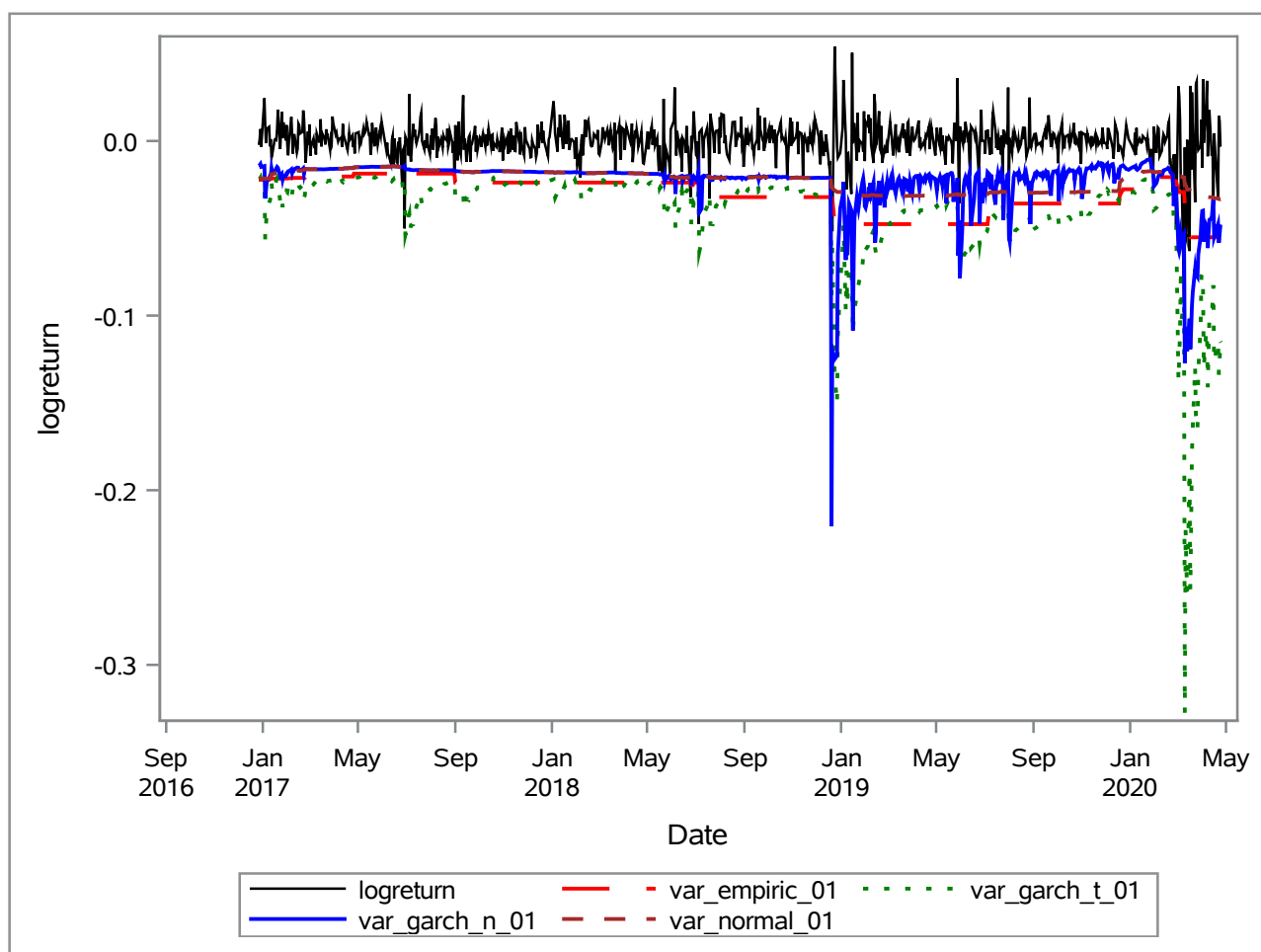
Parameter Estimates						
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t	Variable Label
Intercept	1	0.000567	0.000216	2.63	0.0085	
ARCH0	1	4.7614E-6	1.6208E-6	2.94	0.0033	
ARCH1	1	0.1181	0.0294	4.02	<.0001	
GARCH1	1	0.8431	0.0338	24.96	<.0001	
TDFI	1	0.2586	0.0303	8.53	<.0001	Inverse of t DF

The AUTOREG Procedure

Fit Diagnostics for logreturn

**Observations 1078 MSE 0.000126 Model DF 1**





Obs	p	n	s	z	p_value
1	0.028986	828	24	5.49060	2.0029E-8

Obs	p	n	s	z	p_value
1	0.018116	828	15	2.34713	.009459414

Obs	p	n	s	z	p_value
1	0.021739	828	18	3.39495	.000343205

Obs	p	n	s	z	p_value
1	.009661836	828	8	-0.097797	0.53895