

SARIMAX Results

Dep. Variable: 9 No. Observations: 365 Model: SARIMAX(1, 1, 1)x(1, 1, 1, 12) Log Likelihood -1966.352 Date: Tue, 21 May 2024 AIC 3942.704 Time: 3962.022 11:33:34 BIC Sample: 0 HQIC 3950.392

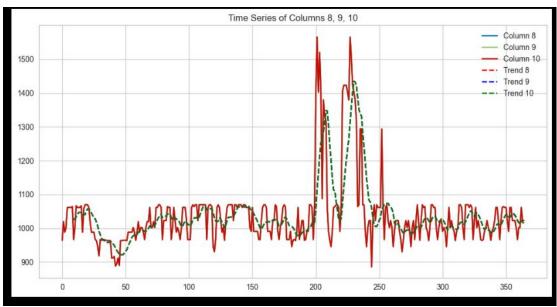
- 365 Covariance Type: opg

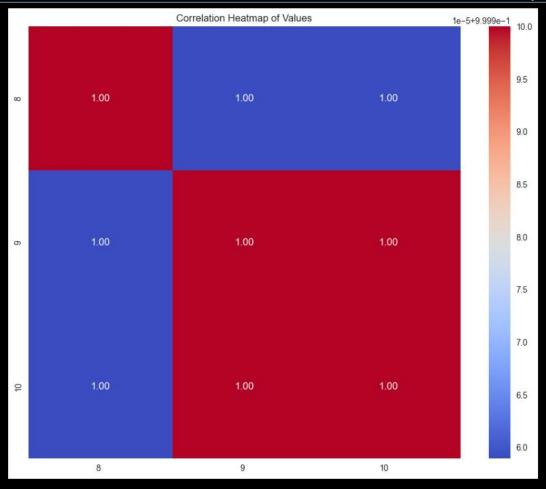
	coef	std err	z	P> z	[0.025	0.975]
ar.L1	0.9988	17.158	0.058	0.954	-32.631	34.628
ma.L1	-0.9994	31.136	-0.032	0.974	-62.024	60.025
ar.5.L12	-0.2399	0.038	-6.288	0.000	-0.315	-0.165
ma.5.L12	-0.9999	21.348	-0.047	0.963	-42.841	40.841
sigma2	3650.0203	9.94e+04	0.037	0.971	-1.91e+05	1.98e+05

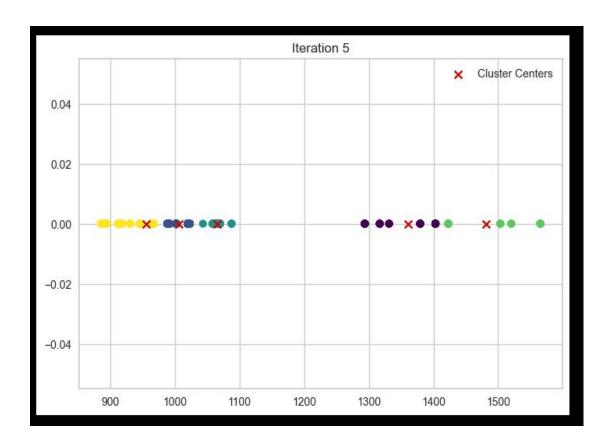
Ljung-Box (L1) (Q): 1.27 Jarque-Bera (JB): 982.06 Prob(Q): Prob(JB): 0.00 0.26 Heteroskedasticity (H): 1.62 0.48 Skew: Prob(H) (two-sided): 0.01 Kurtosis: 11.13

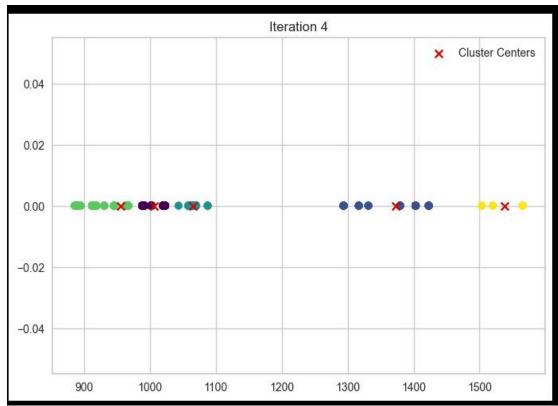
Warnings:

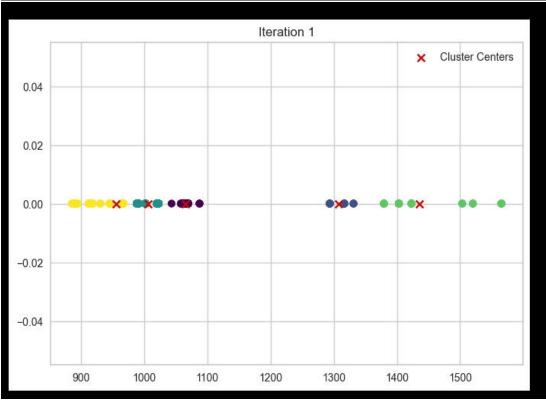
[1] Covariance matrix calculated using the outer product of gradients (complex-step).

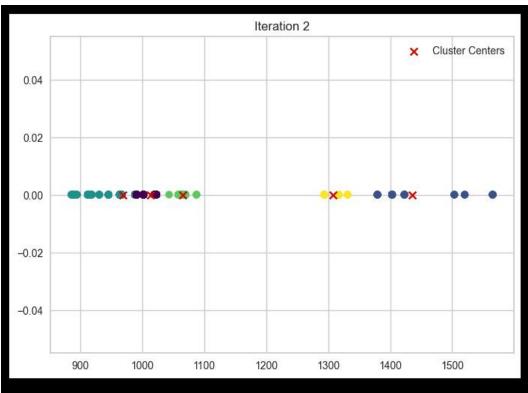


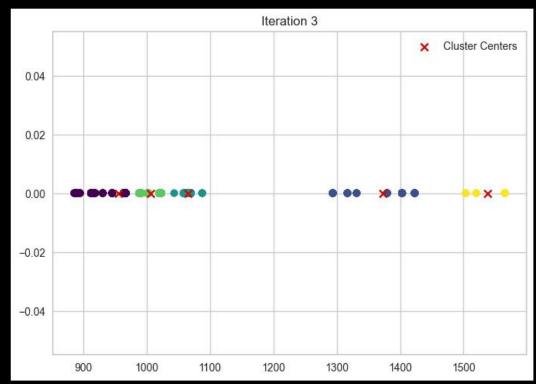












Gaussian

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Labels after 1 iterations: [2 2 2 ... 3 3 3]
Cluster centers after 1 iterations: [[1065.24930837]
 [1375.12702059]
 [ 973.76541942]
[1007.22069148]
[1540.60922708]]
Labels after 2 iterations: [3 3 3 ... 2 2 2]
Cluster centers after 2 iterations: [[1065.25015068]
[1424.09995849]
[1005.541487 ]
[ 973.5556383 ]
[1303.46969085]]
Labels after 3 iterations: [4 4 4 ... 0 0 0]
Cluster centers after 3 iterations: [[1005.54431627]
[1388.83641979]
[1065.24564229]
[ 925.44088738]
 [ 965.58833358]]
Labels after 4 iterations: [0 0 0 ... 0 0 0]
Cluster centers after 4 iterations: [[ 992.20252567]
 [1304.39636158]
 [1065.25564319]
 [1425.64011749]
 [ 919.25695622]]
Labels after 5 iterations: [4 4 4 ... 0 0 0]
[1540.61495319 1540.61495319 1540.61495319]
[1375.13180034 1375.13180034 1375.13180034]
 [ 976.73333333 976.73333333 976.7
                                            1
                                            11
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