

As noted in the Supplement, there are a series of variables called *Binary1/Trend1* and *Binary2/Trend2*. These are intended to help tune the model and capture abnormal events in the residuals after specifying the model. None of these trends are extended into the forecast period, so their effect is on the model parameterization and not on assumptions of future trends.

In the table below, are the time periods for which these variables are turned on. Binary1/2 are given a value of 1 within the time period listed and 0 otherwise. Trend1/2 are given a time trend within the time period listed and 0 otherwise.

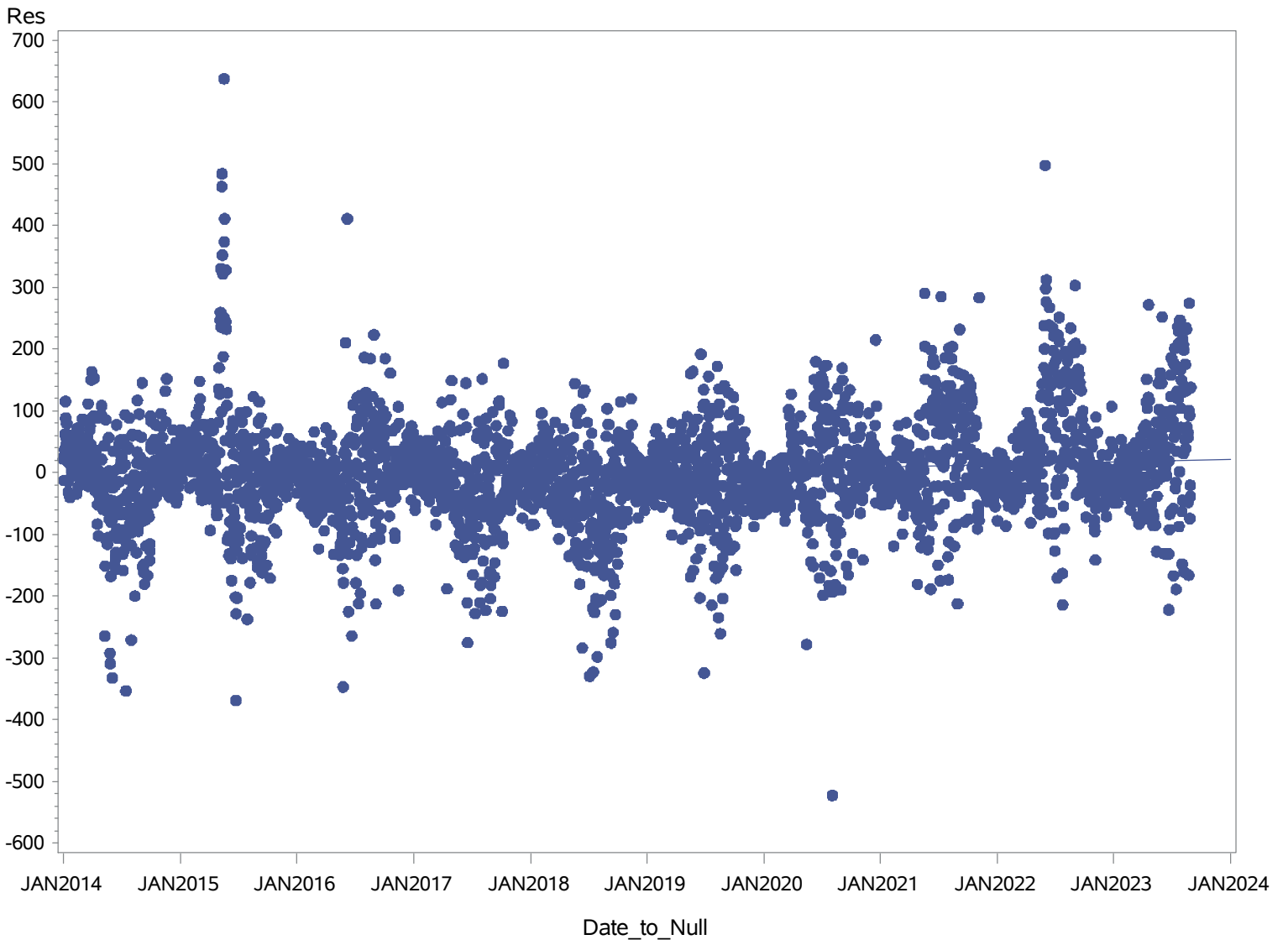
	Binary1	Trend1	Binary2	Trend2
AE	0	0	0	0
AEP	4/5/2020	0	12/30/2021	0
APS	0	0	0	0
ATSI	1/1/2018 - 12/31/2019	1/1/2018 - 12/31/2019	0	0
BGE	1/1/2014 - 12/31/2016	1/1/2014 - 12/31/2016	0	0
COMED	1/1/2014 - 12/31/2019	0	0	0
DAYTON	1/1/2014 - 12/31/2018	1/1/2014 - 12/31/2018	0	0
DPL	0	0	0	0
DQE	1/1/2014 - 12/31/2015	1/1/2014 - 12/31/2015	0	0
DUKE	0	0	0	0
EKPC	0	0	0	0
JCPL	8/4/2020	0	8/5/2020	0
METED	0	0	0	0
PECO	1/1/2014 - 12/31/2019	1/1/2014 - 12/31/2019	0	0
PENLC	0	0	0	0
PEPCO	1/1/2014 - 12/31/2019	1/1/2014 - 12/31/2019	0	0
PL	10/1/2015 - 8/31/2016	10/1/2015 - 8/31/2016	0	0
PS	0	0	0	0
RECO	8/4/2020	0	8/5/2020	0
UGI	3/19/2022	0	0	0
VEPCO	1/1/2014 - 12/31/2019	1/1/2014 - 12/31/2019	0	0

Pages 2-23 show residual plots for HE18 prior to inclusion of *Binary1/Trend1* and *Binary2/Trend2*.

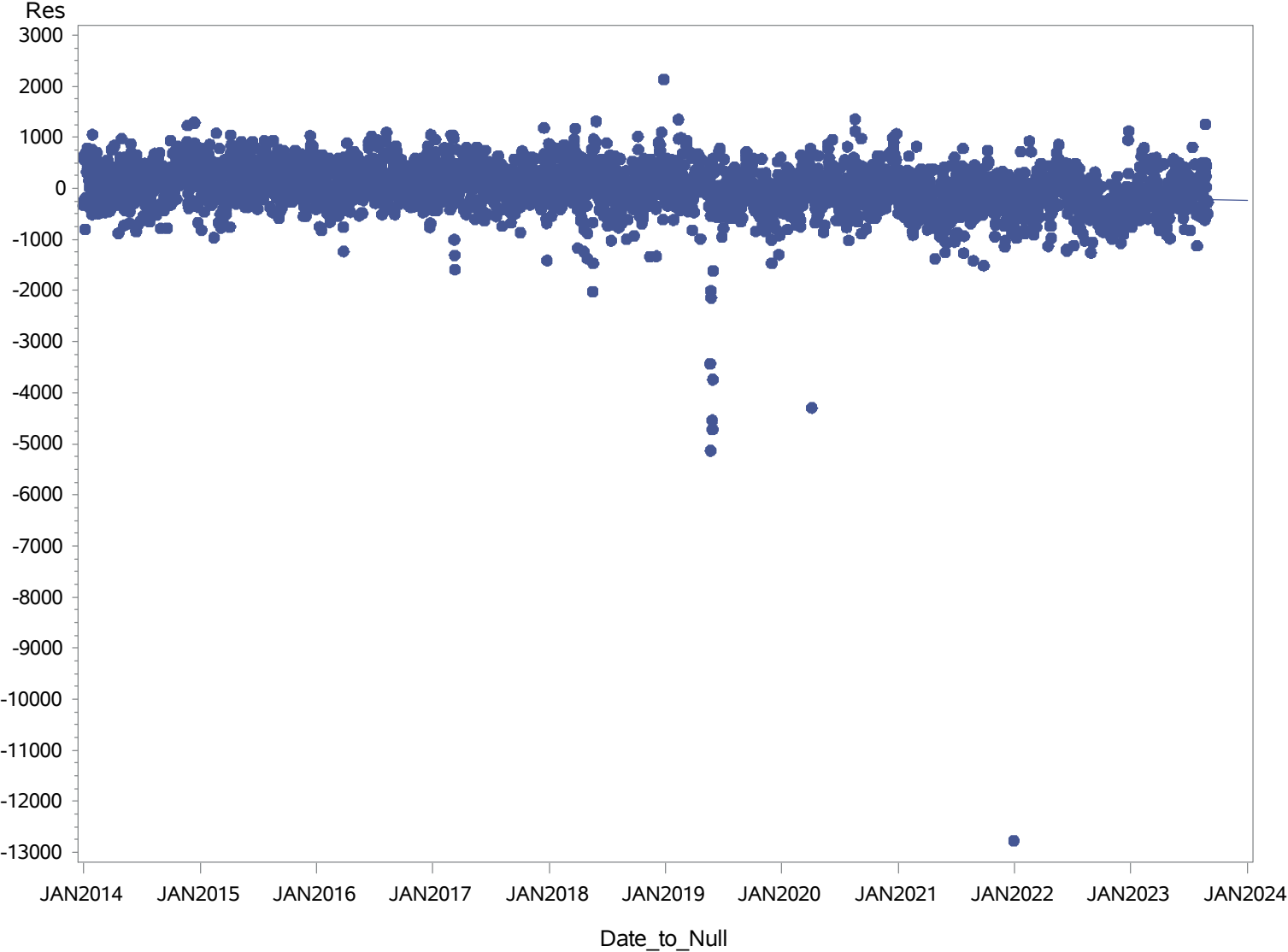
Pages 24-45 show residual plots for HE18 after inclusion of *Binary1/Trend1* and *Binary2/Trend2*.

Before Binary1/Trend1 and Binary2/Trend2

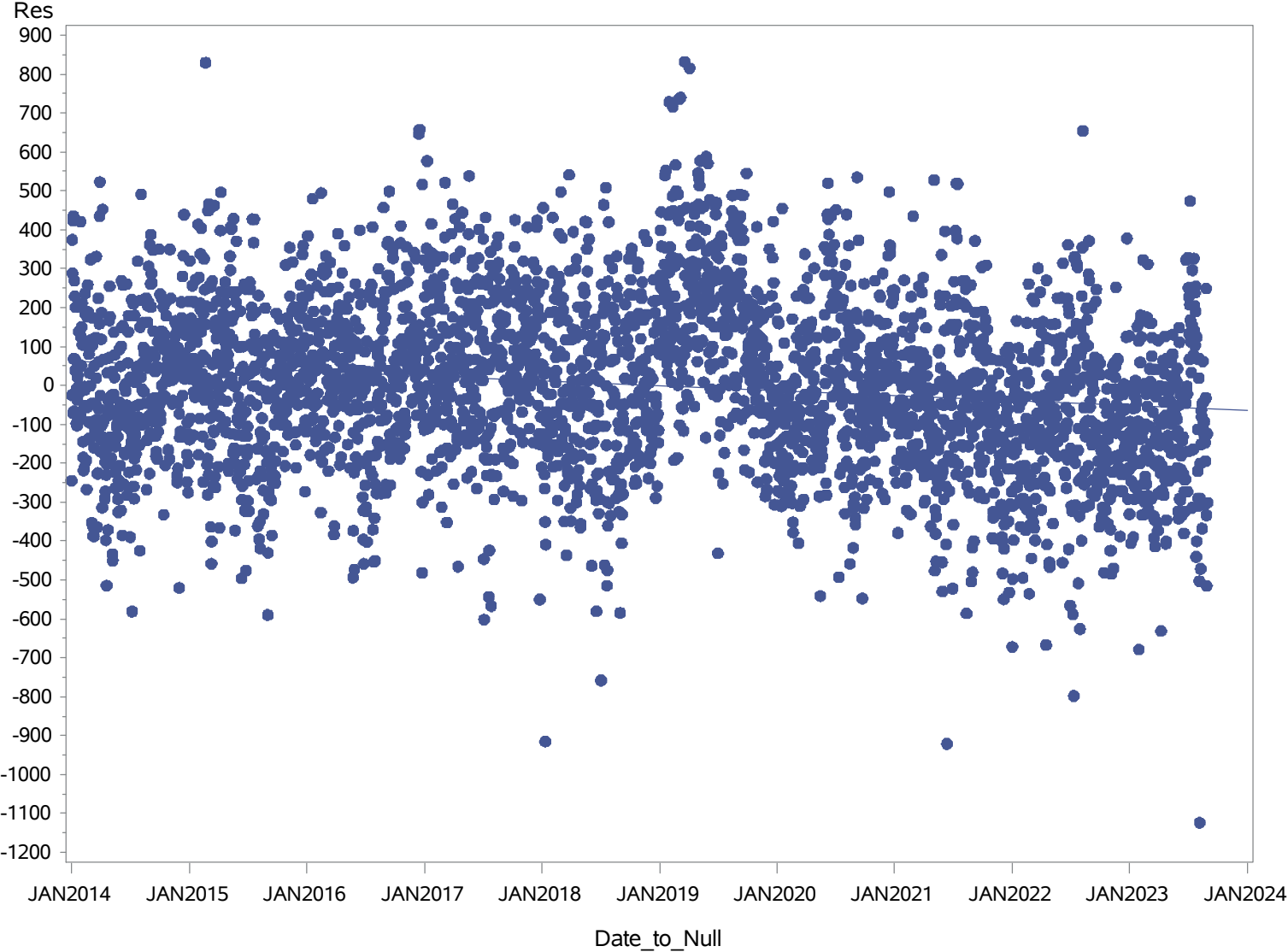
GEO_NAME=AE CURRENT_HOUR_ENDING=18



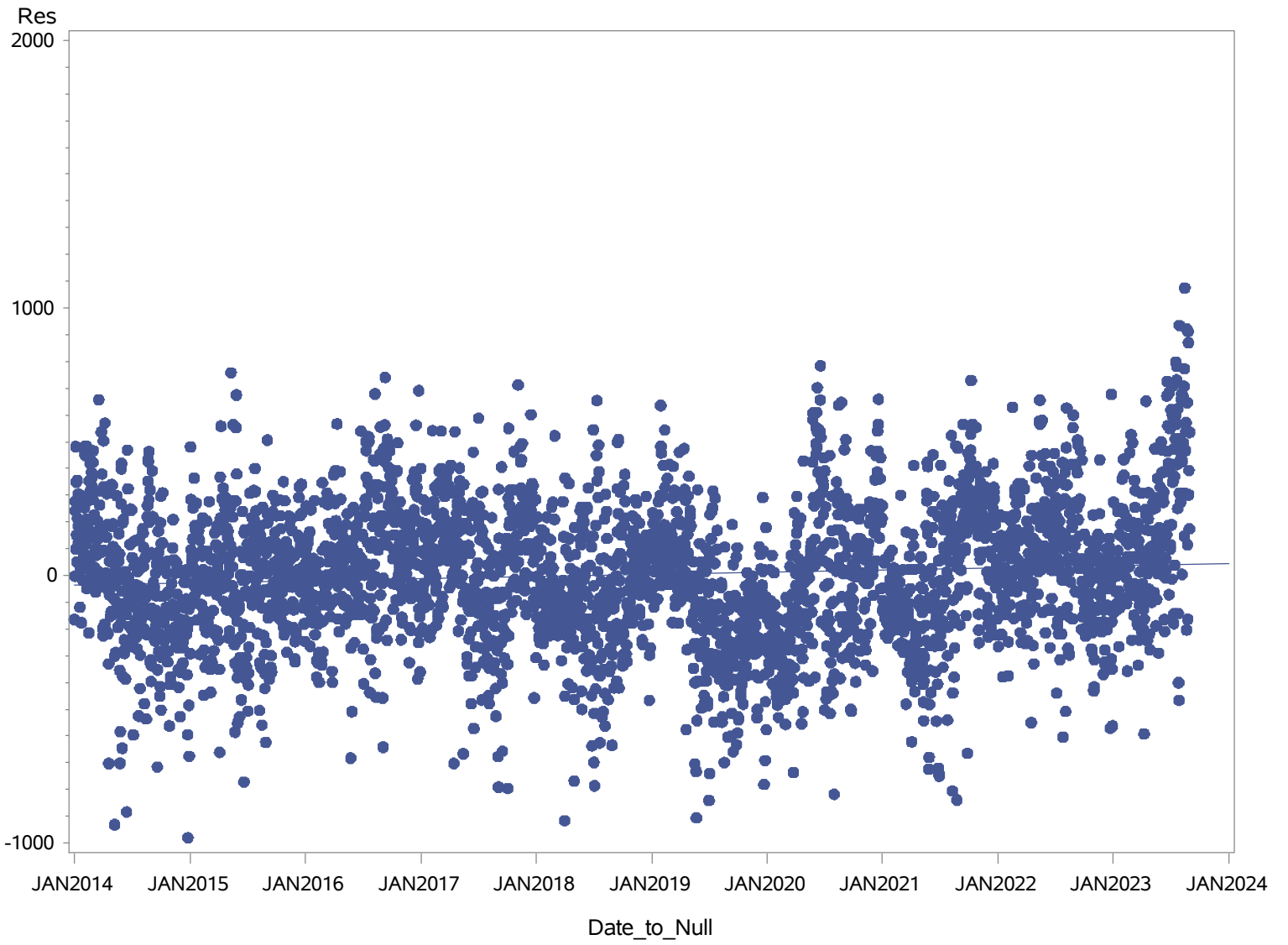
GEO_NAME=AEP CURRENT_HOUR_ENDING=18



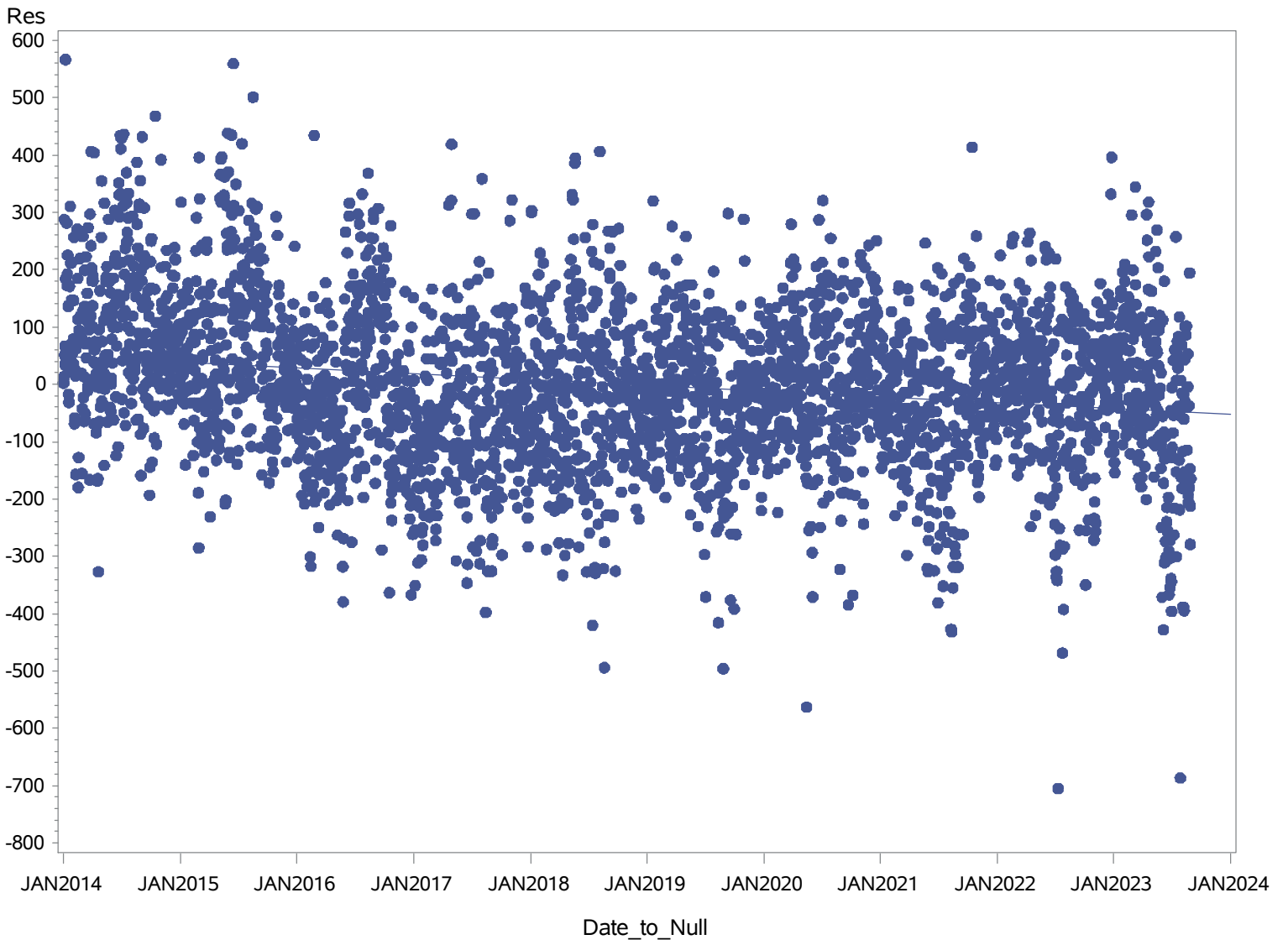
GEO_NAME=APS CURRENT_HOUR_ENDING=18



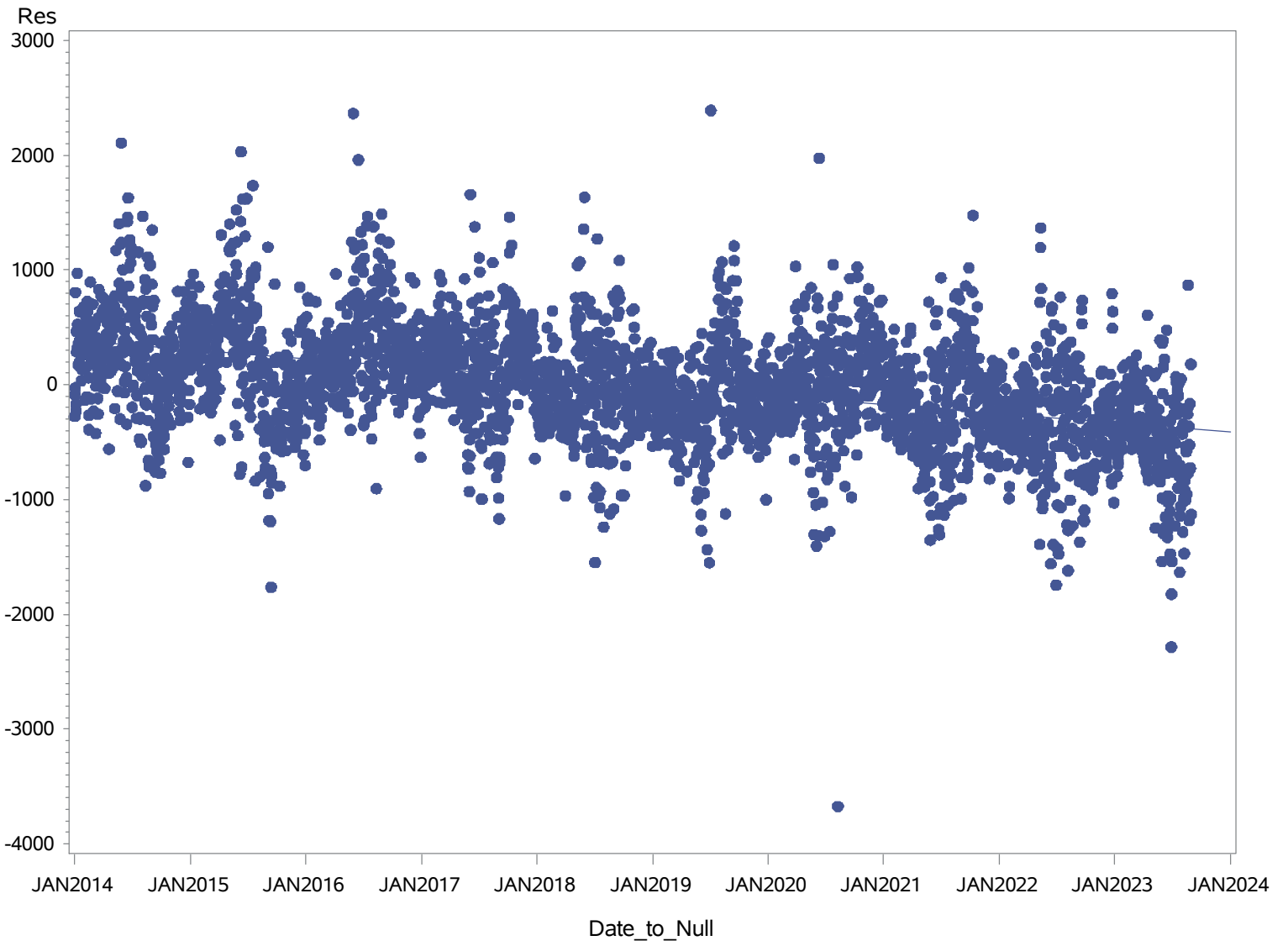
GEO_NAME=ATSI CURRENT_HOUR_ENDING=18



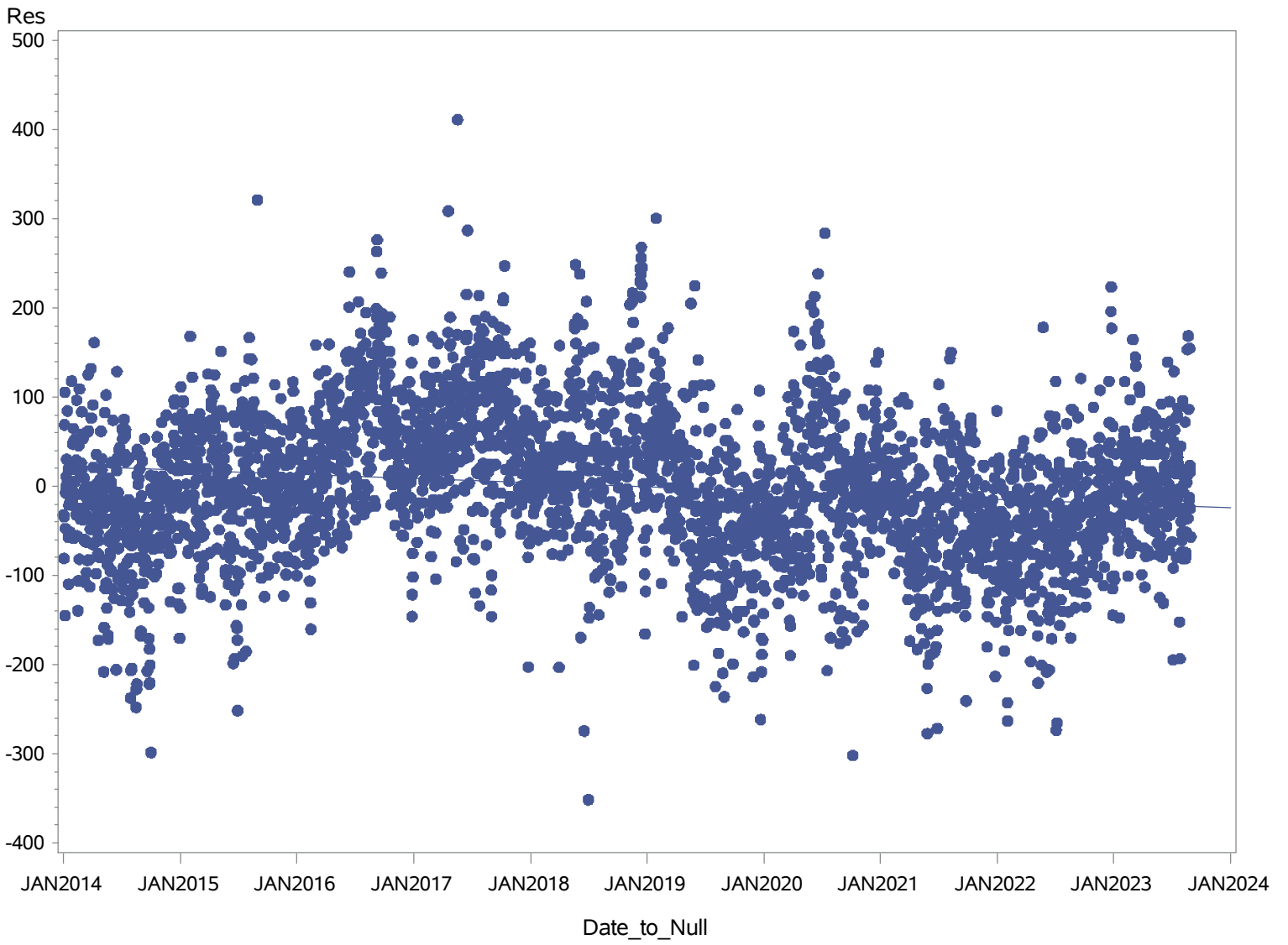
GEO_NAME=BGE CURRENT_HOUR_ENDING=18



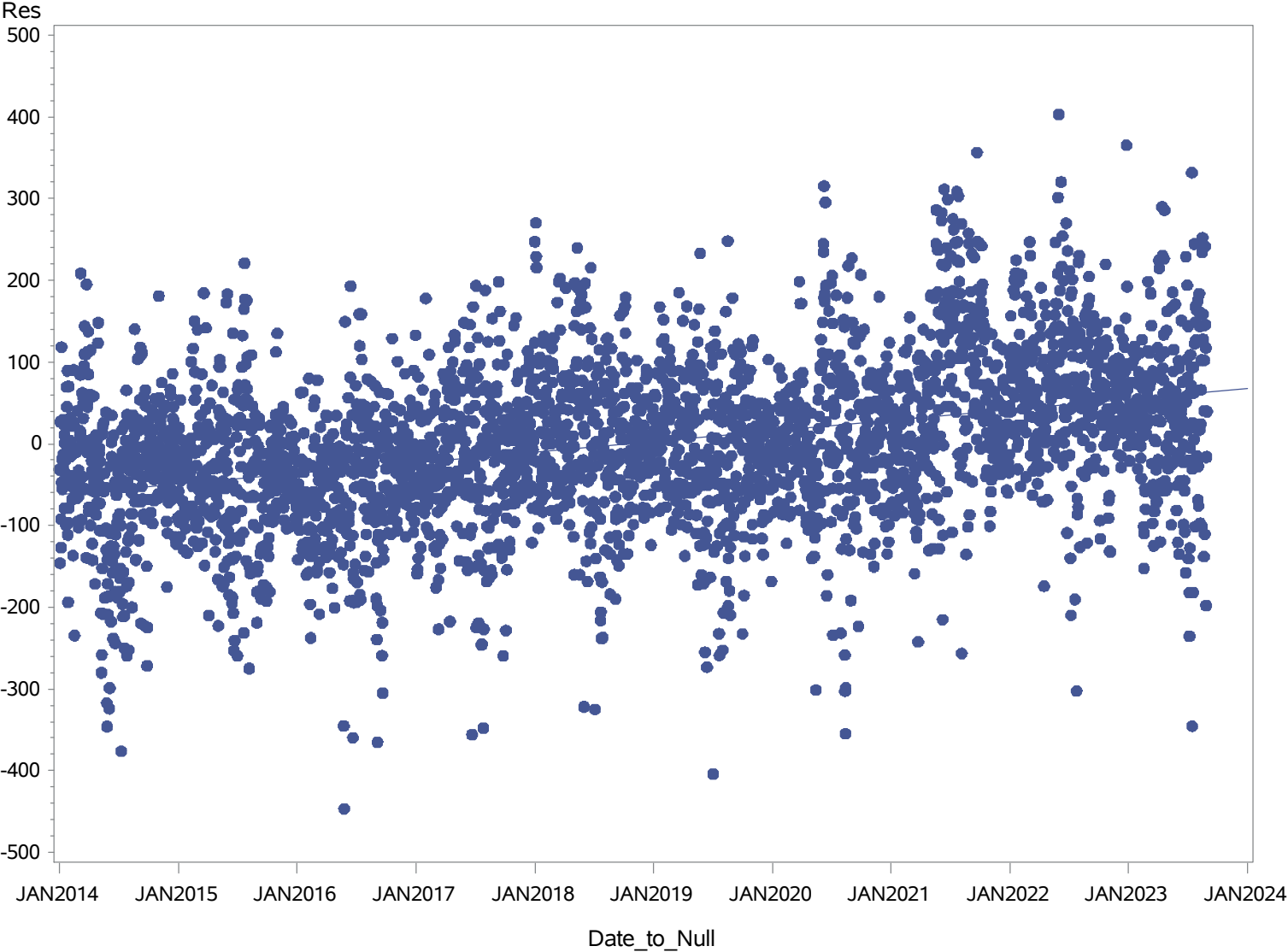
GEO_NAME=COMED CURRENT_HOUR_ENDING=18



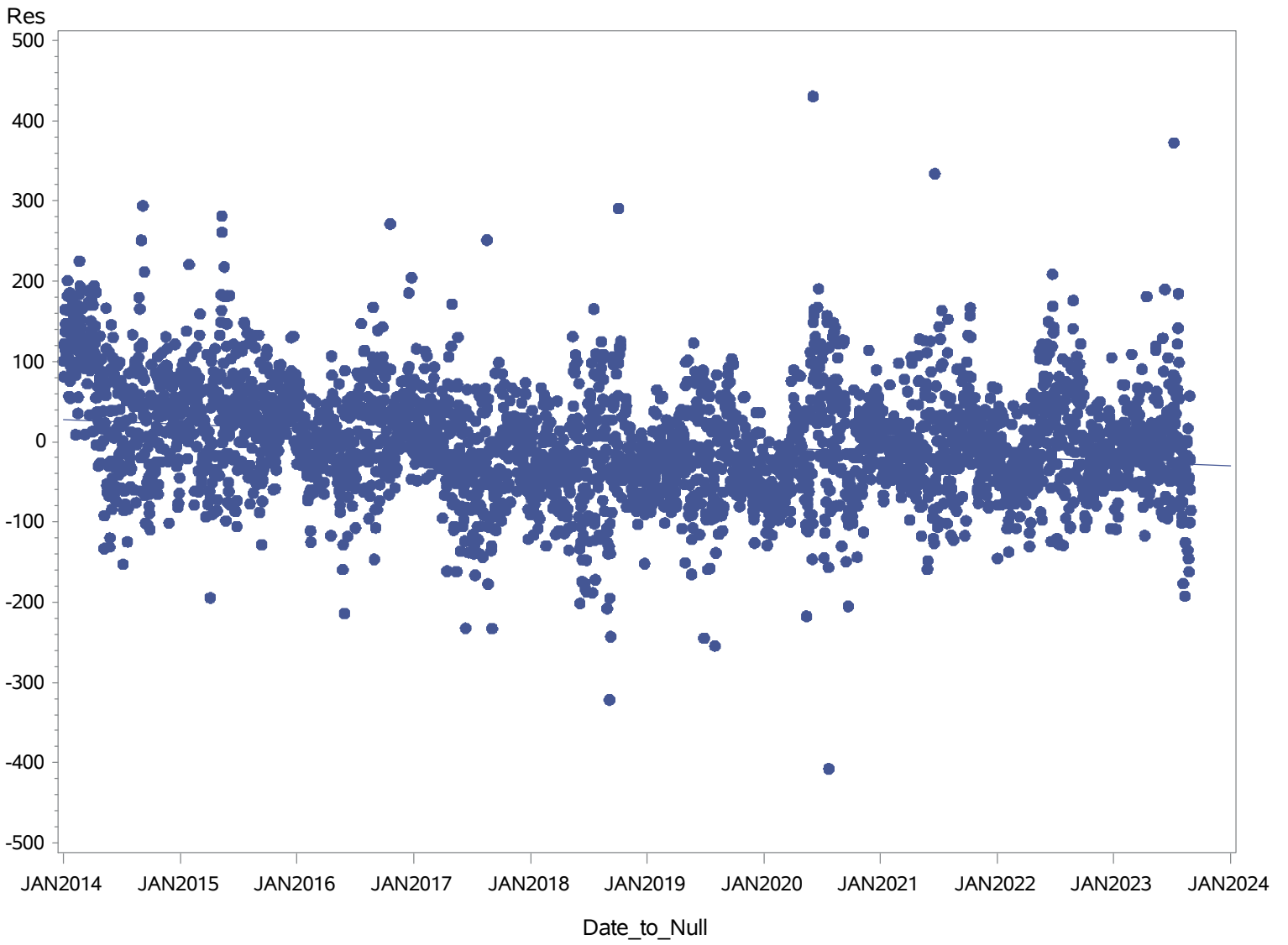
GEO_NAME=DAYTON CURRENT_HOUR_ENDING=18



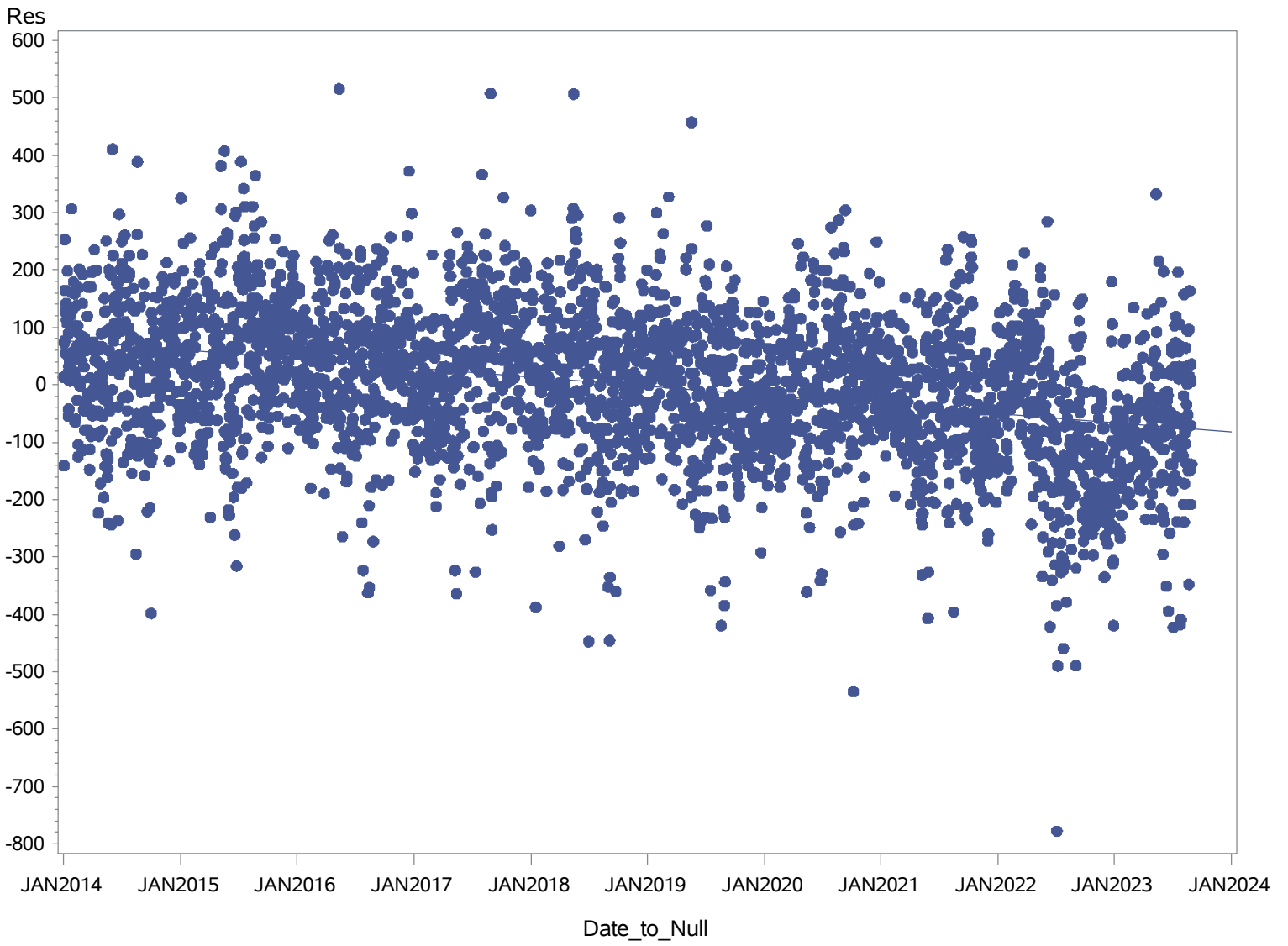
GEO_NAME=DPL CURRENT_HOUR_ENDING=18



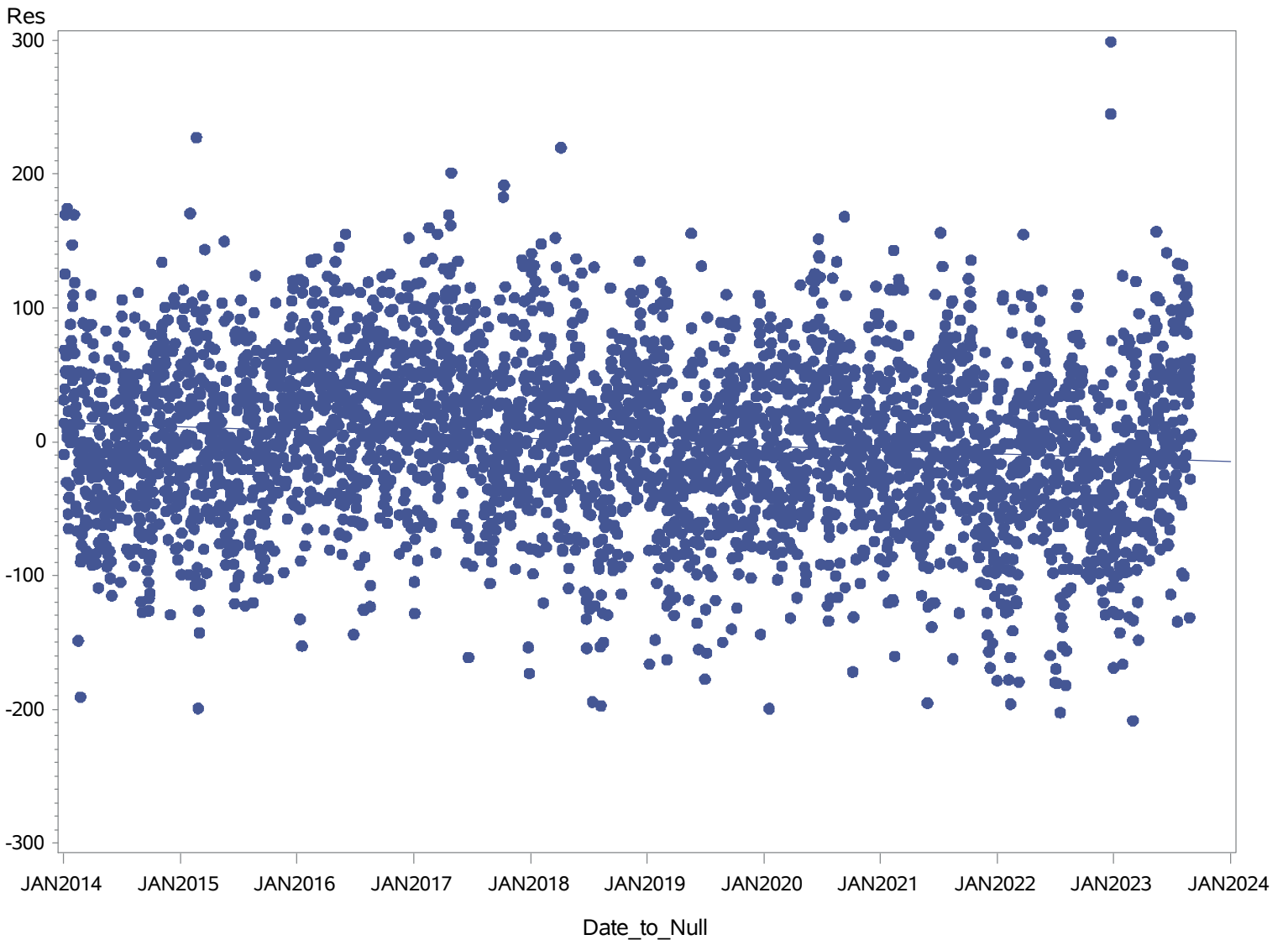
GEO_NAME=DQE CURRENT_HOUR_ENDING=18



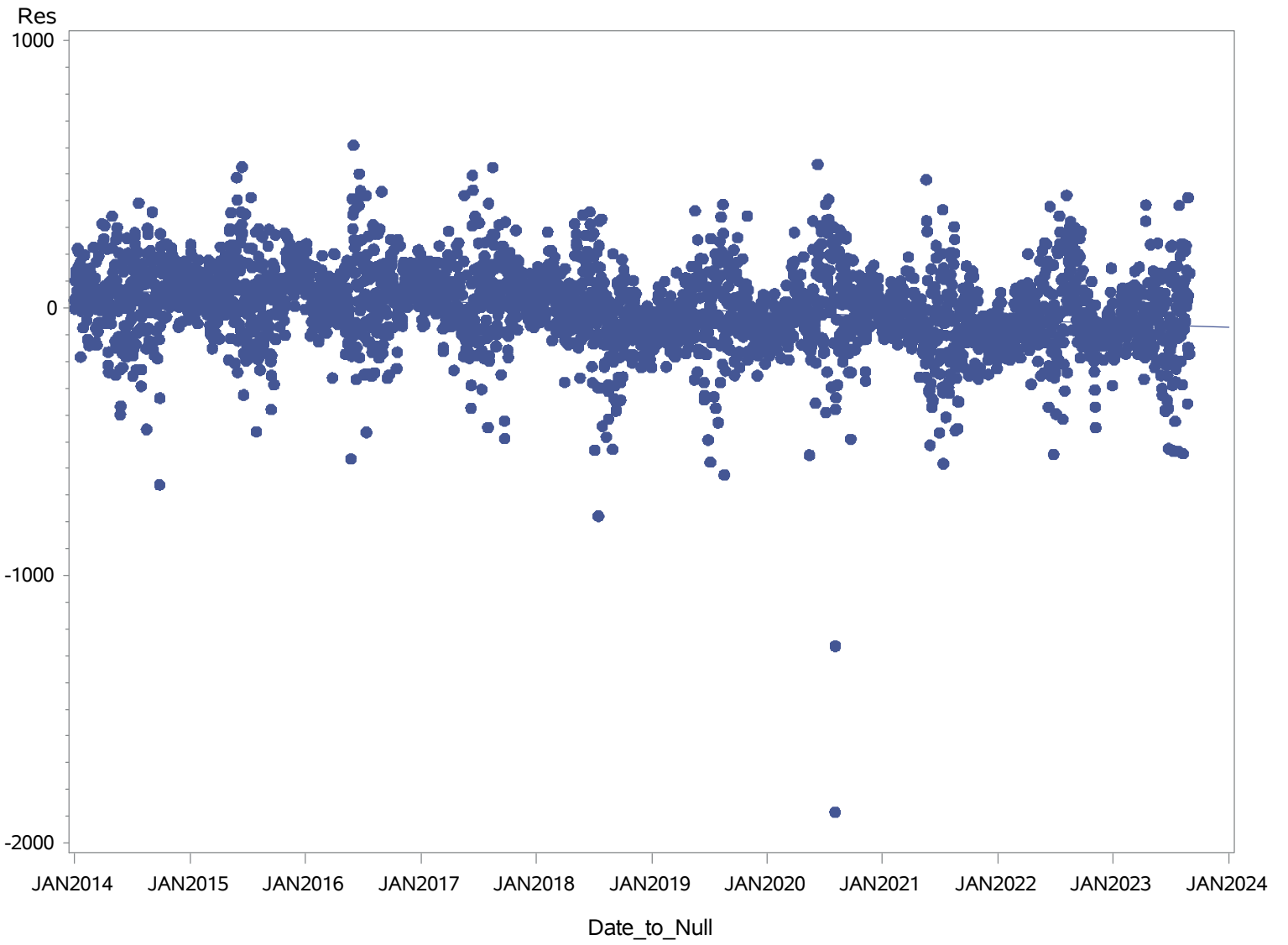
GEO_NAME=DUKE CURRENT_HOUR_ENDING=18



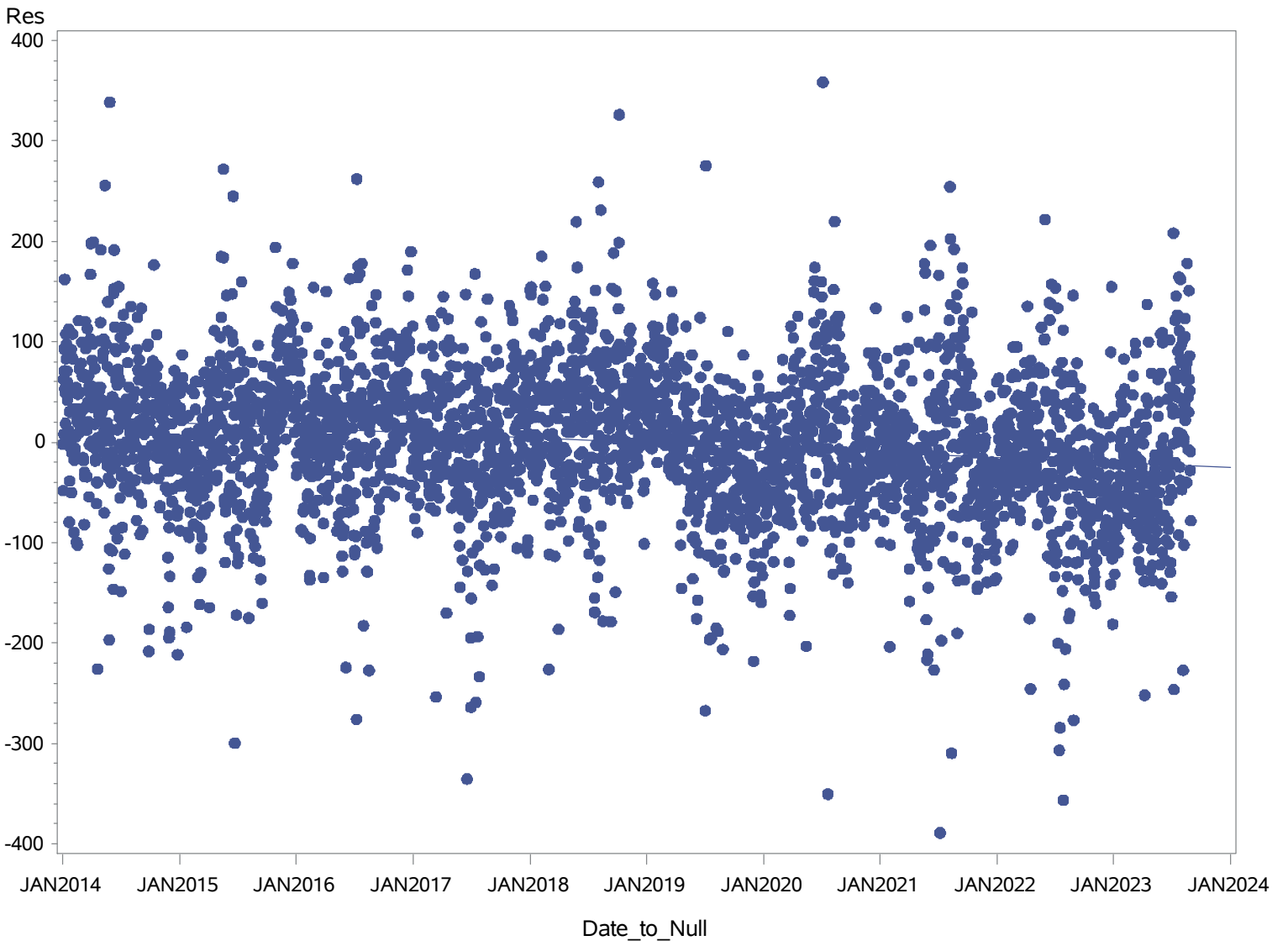
GEO_NAME=EKPC CURRENT_HOUR_ENDING=18



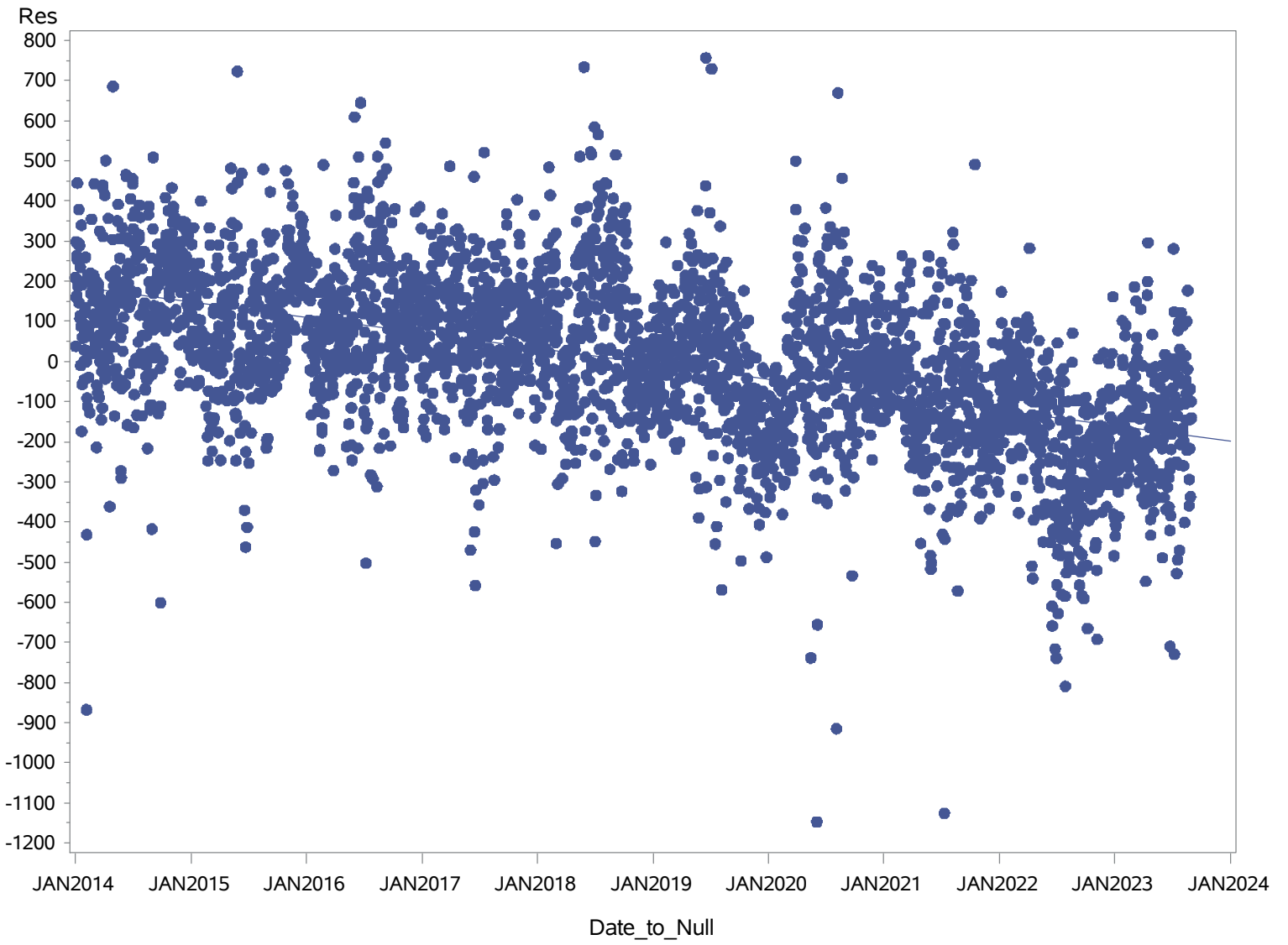
GEO_NAME=JCPL CURRENT_HOUR_ENDING=18



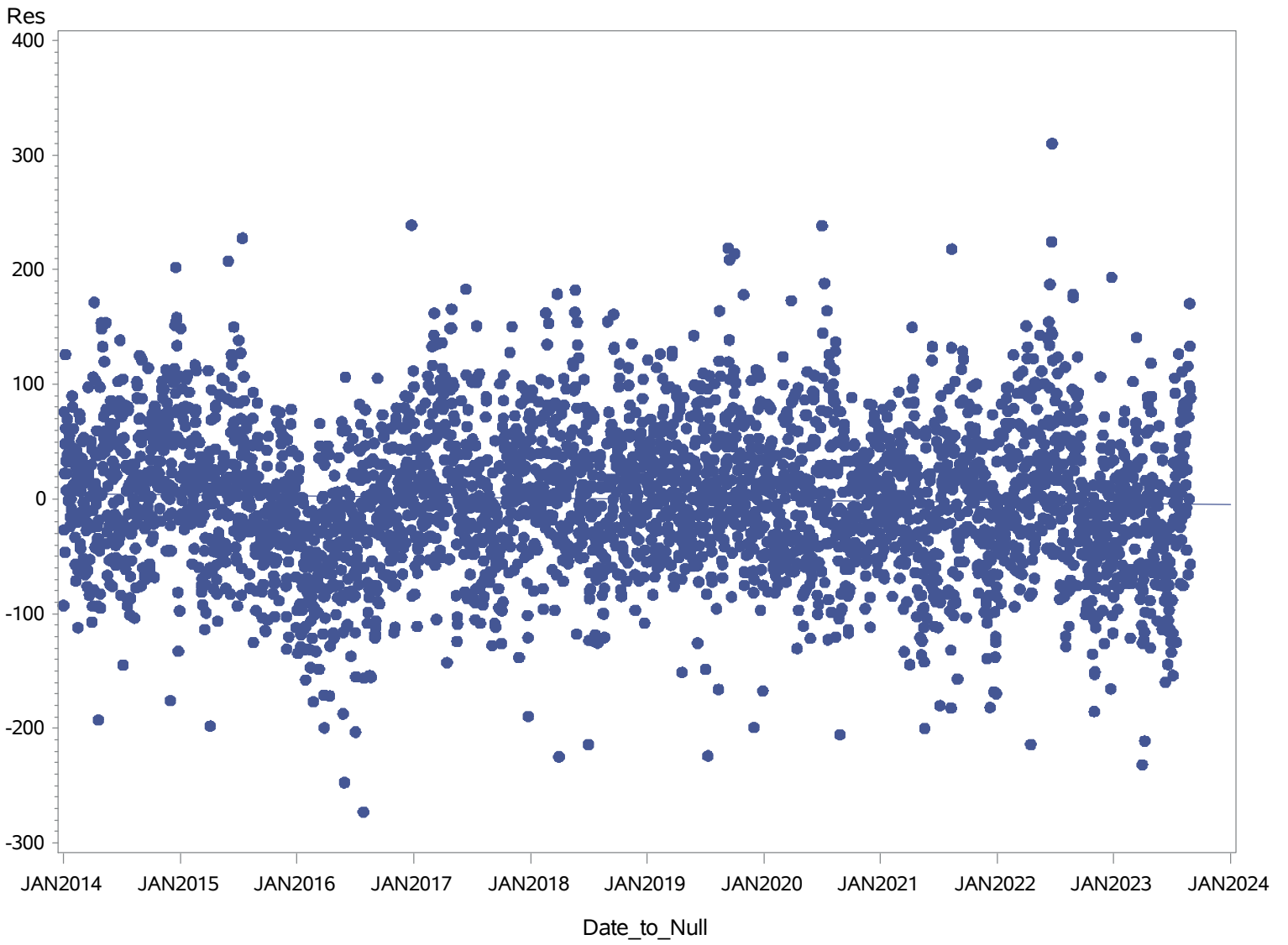
GEO_NAME=METED CURRENT_HOUR_ENDING=18



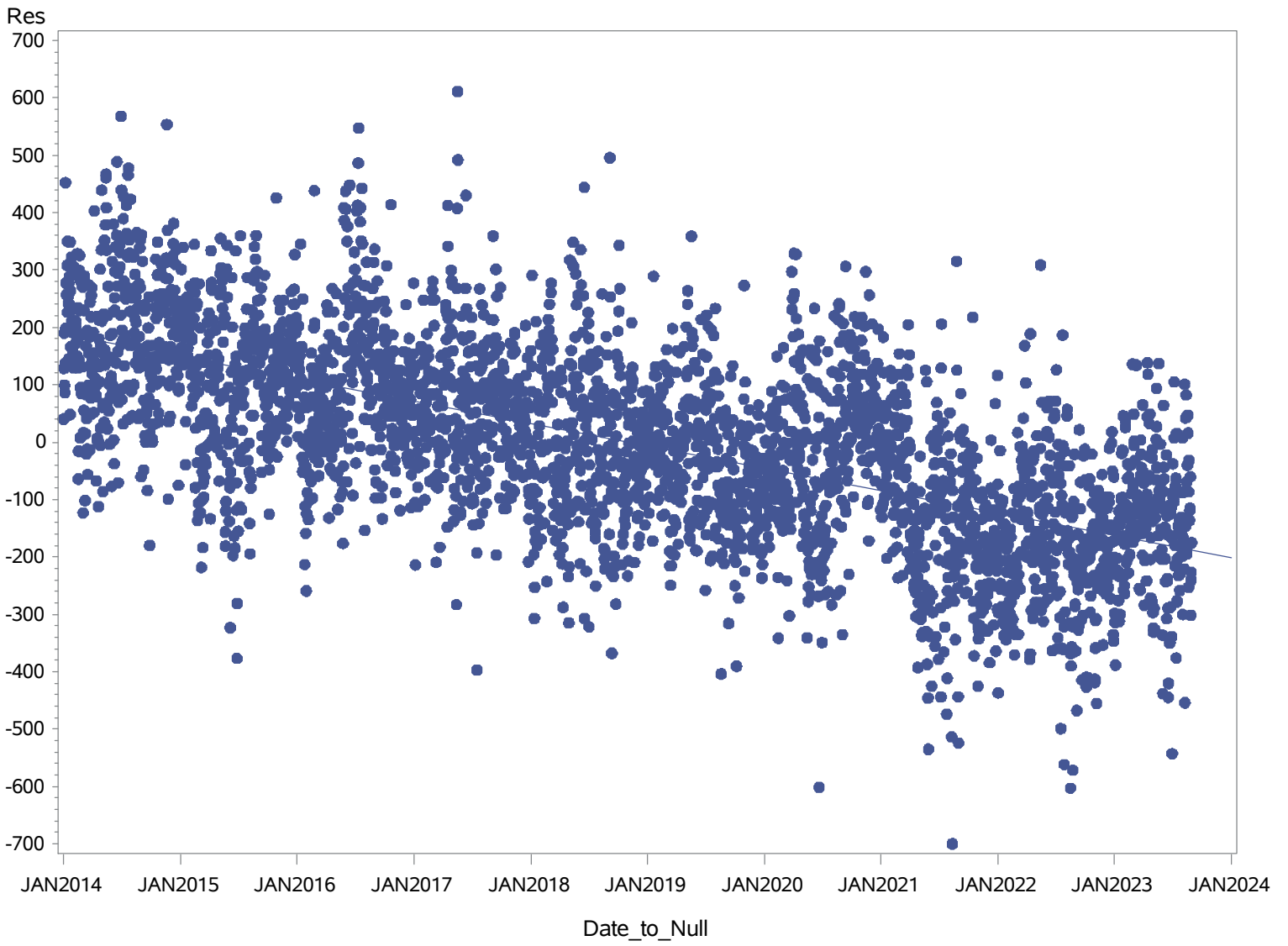
GEO_NAME=PECO CURRENT_HOUR_ENDING=18



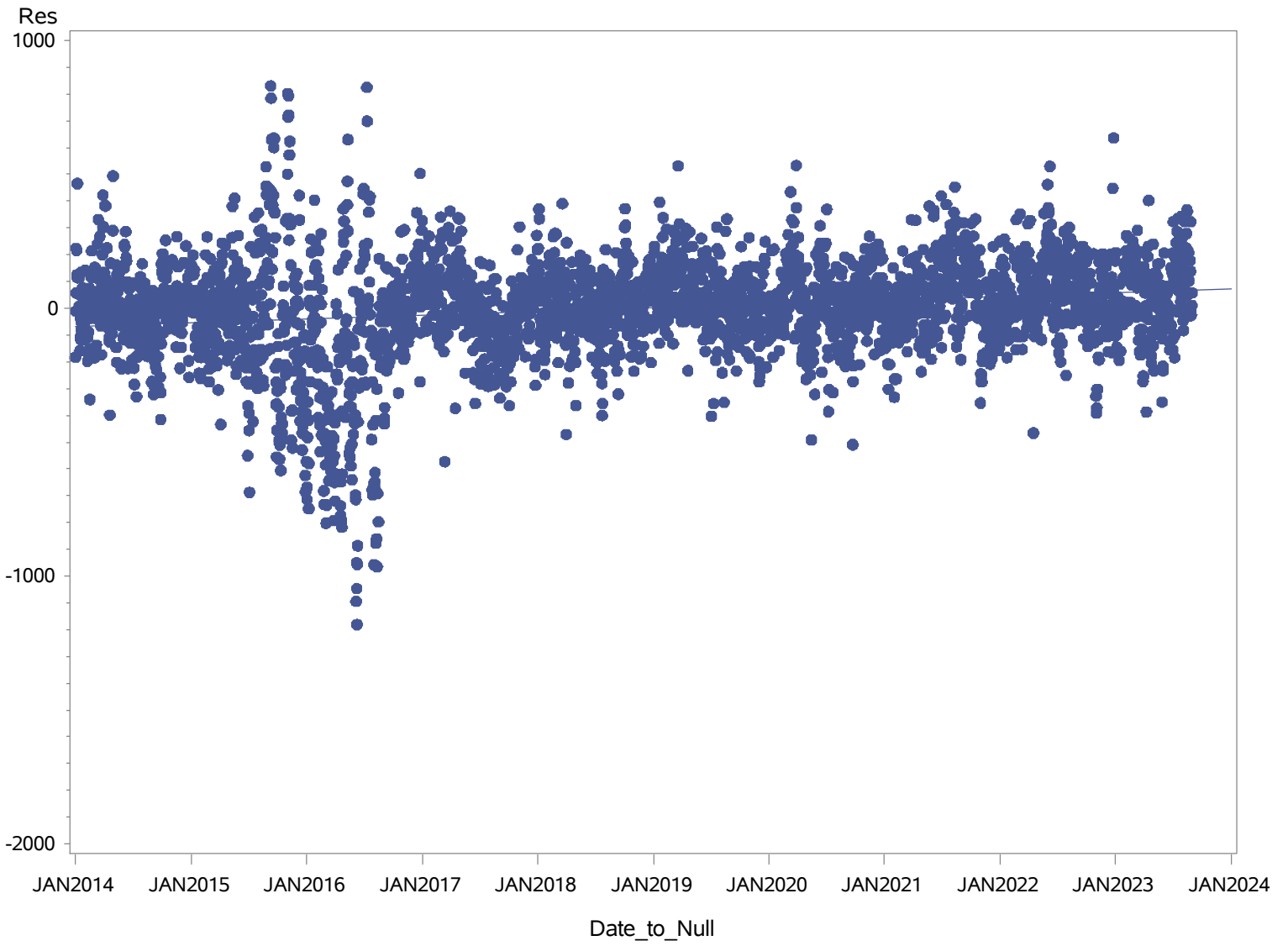
GEO_NAME=PENLC CURRENT_HOUR_ENDING=18



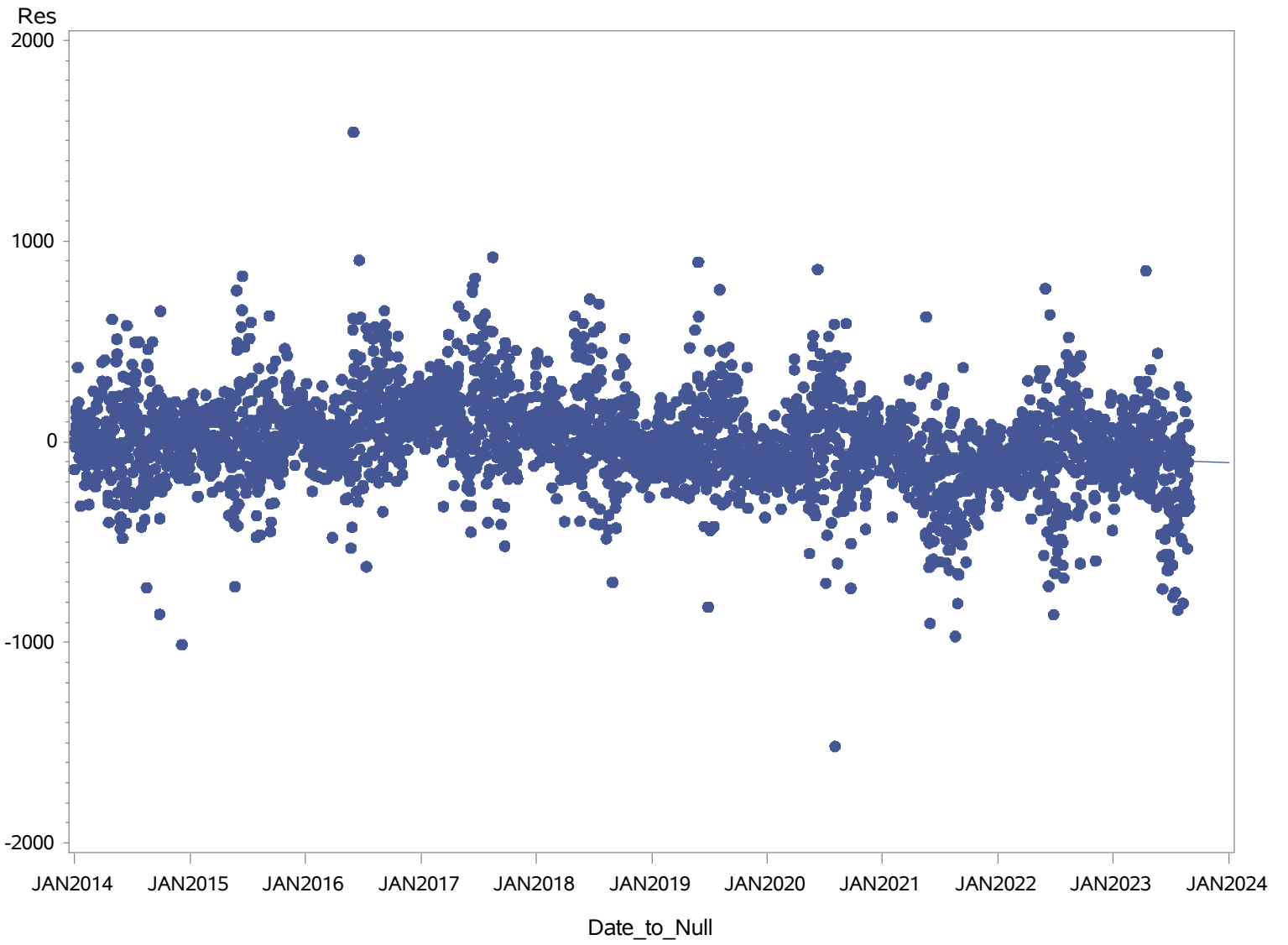
GEO_NAME=PEPCO CURRENT_HOUR_ENDING=18



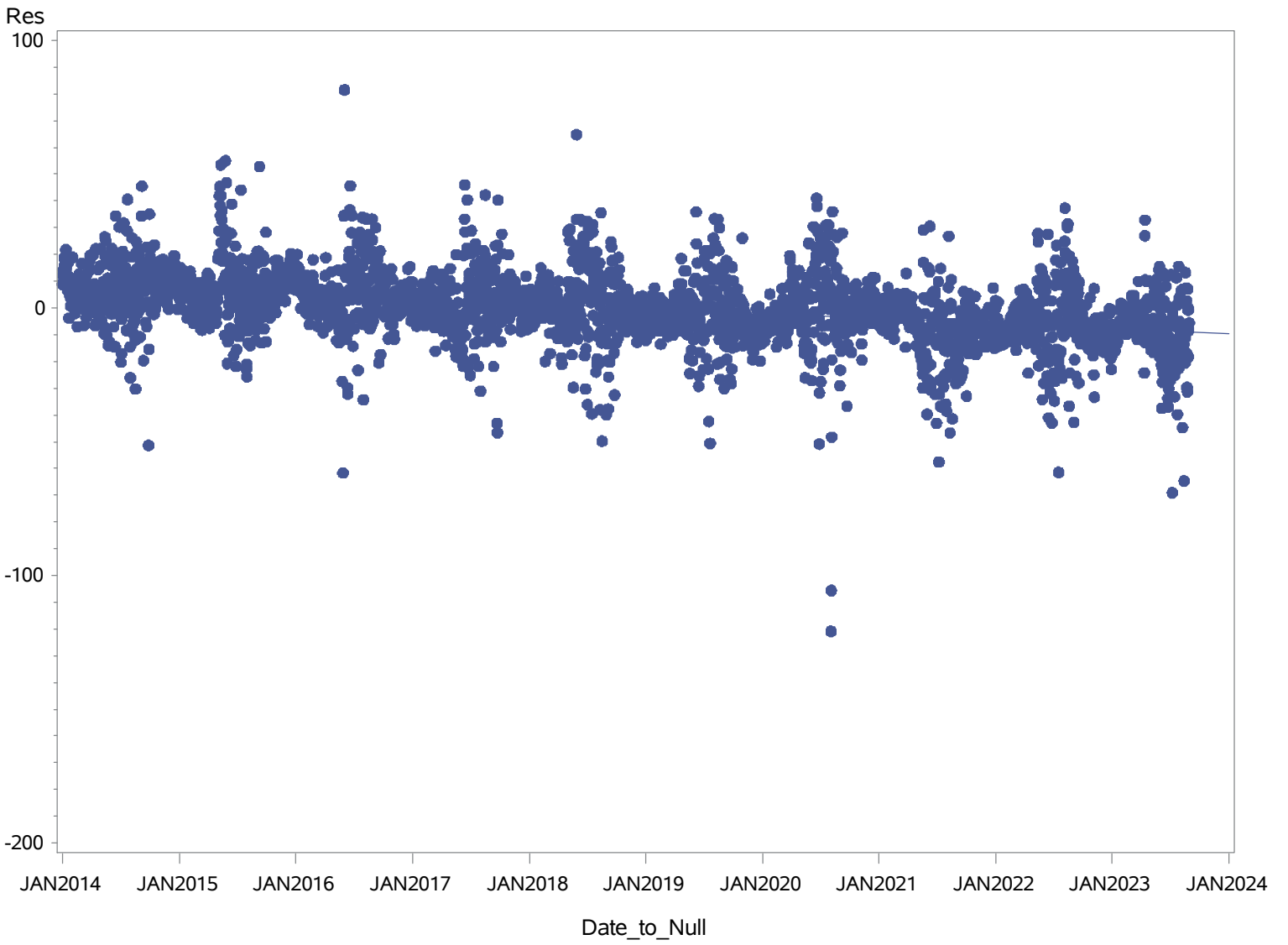
GEO_NAME=PL CURRENT_HOUR_ENDING=18



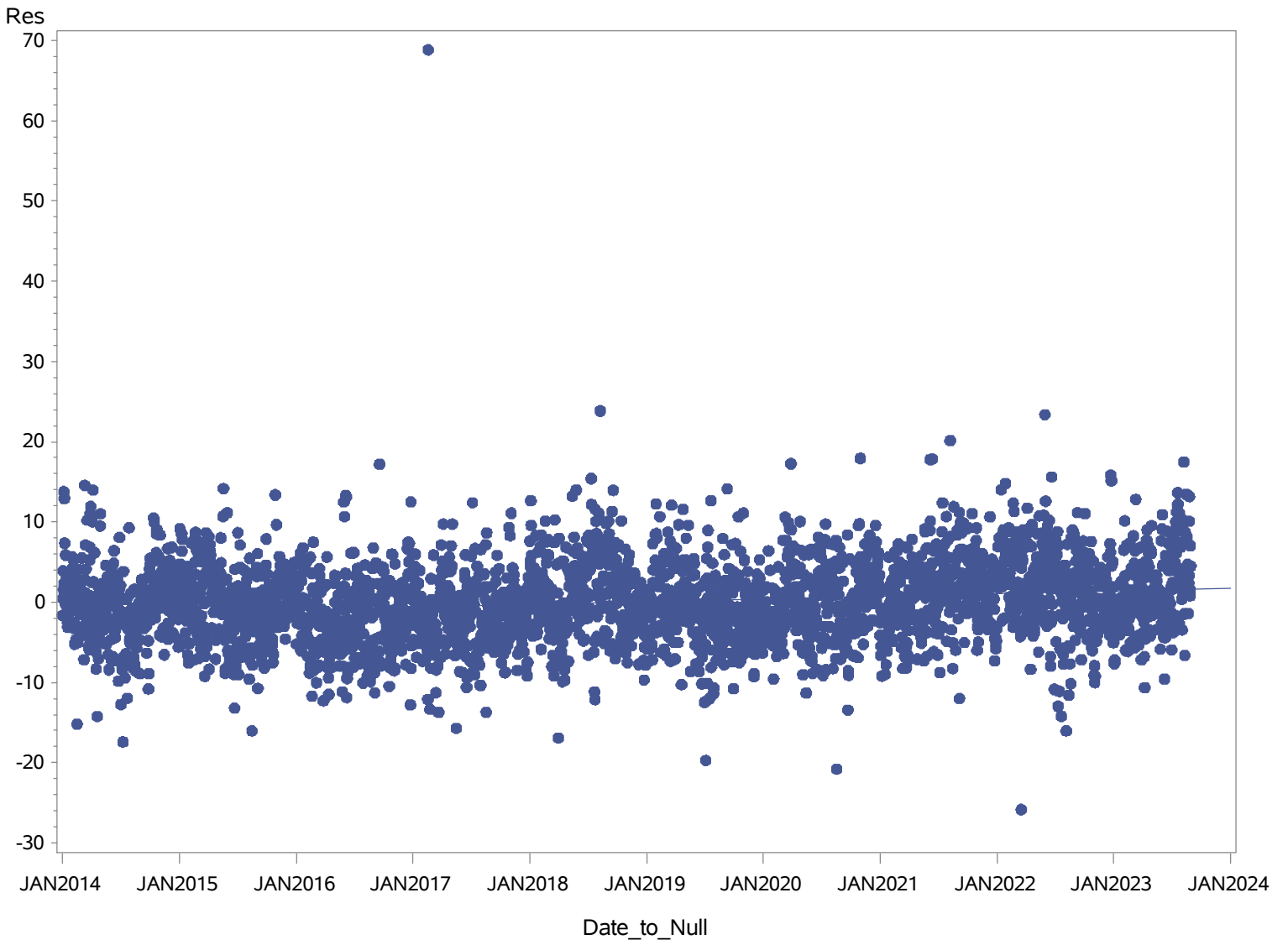
GEO_NAME=PS CURRENT_HOUR_ENDING=18



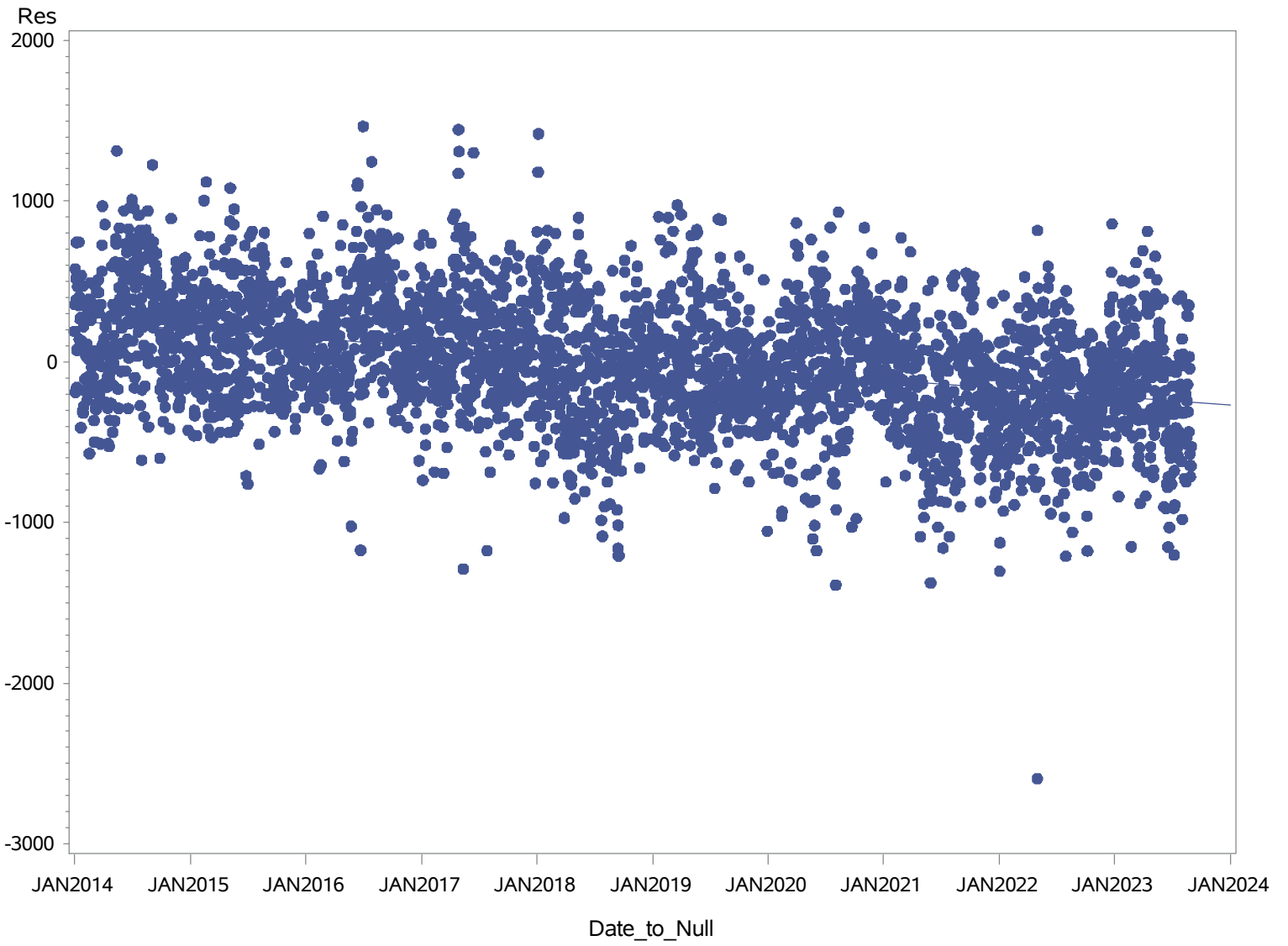
GEO_NAME=RECO CURRENT_HOUR_ENDING=18



GEO_NAME=UGI CURRENT_HOUR_ENDING=18

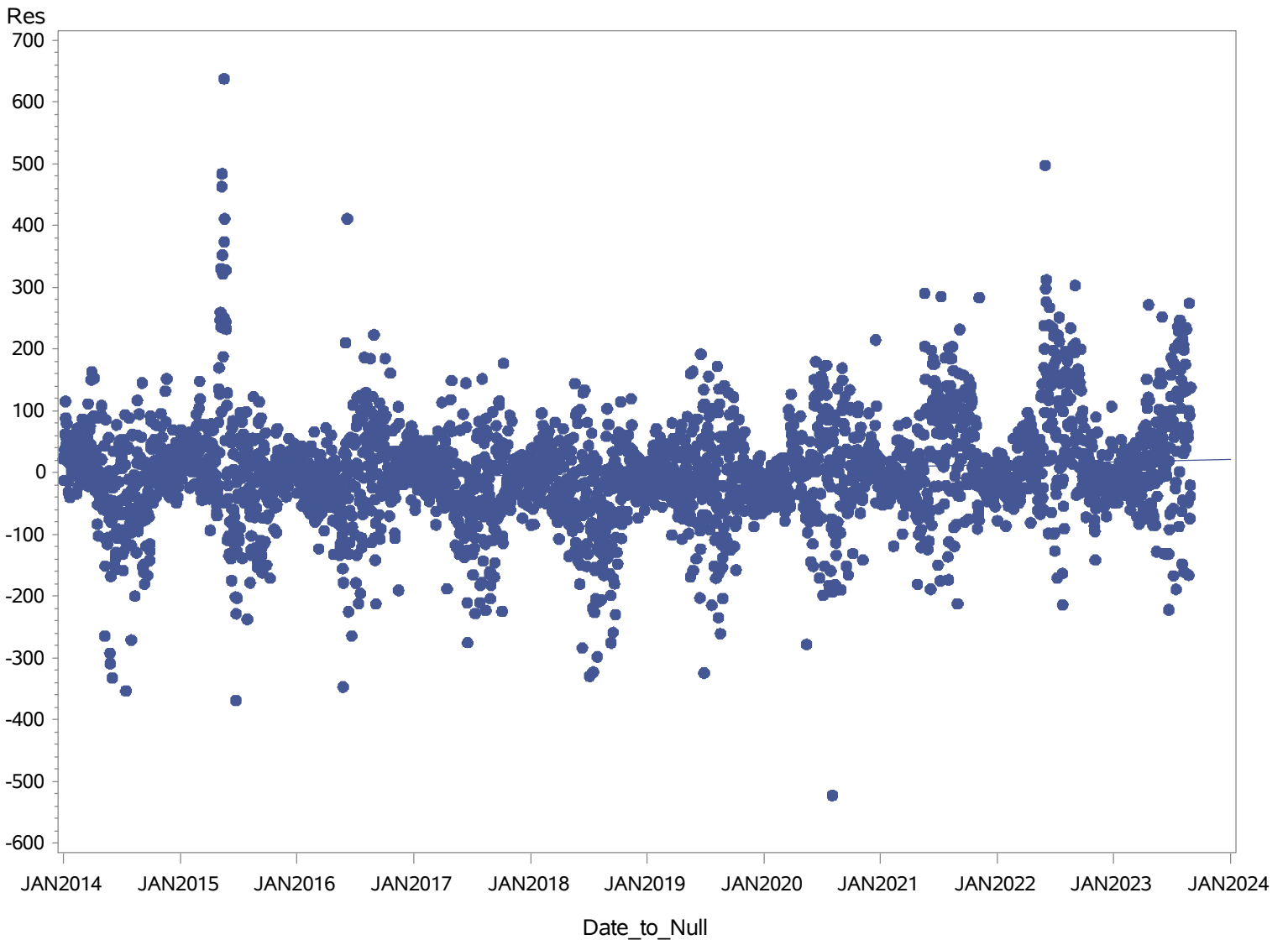


GEO_NAME=VEPCO CURRENT_HOUR_ENDING=18

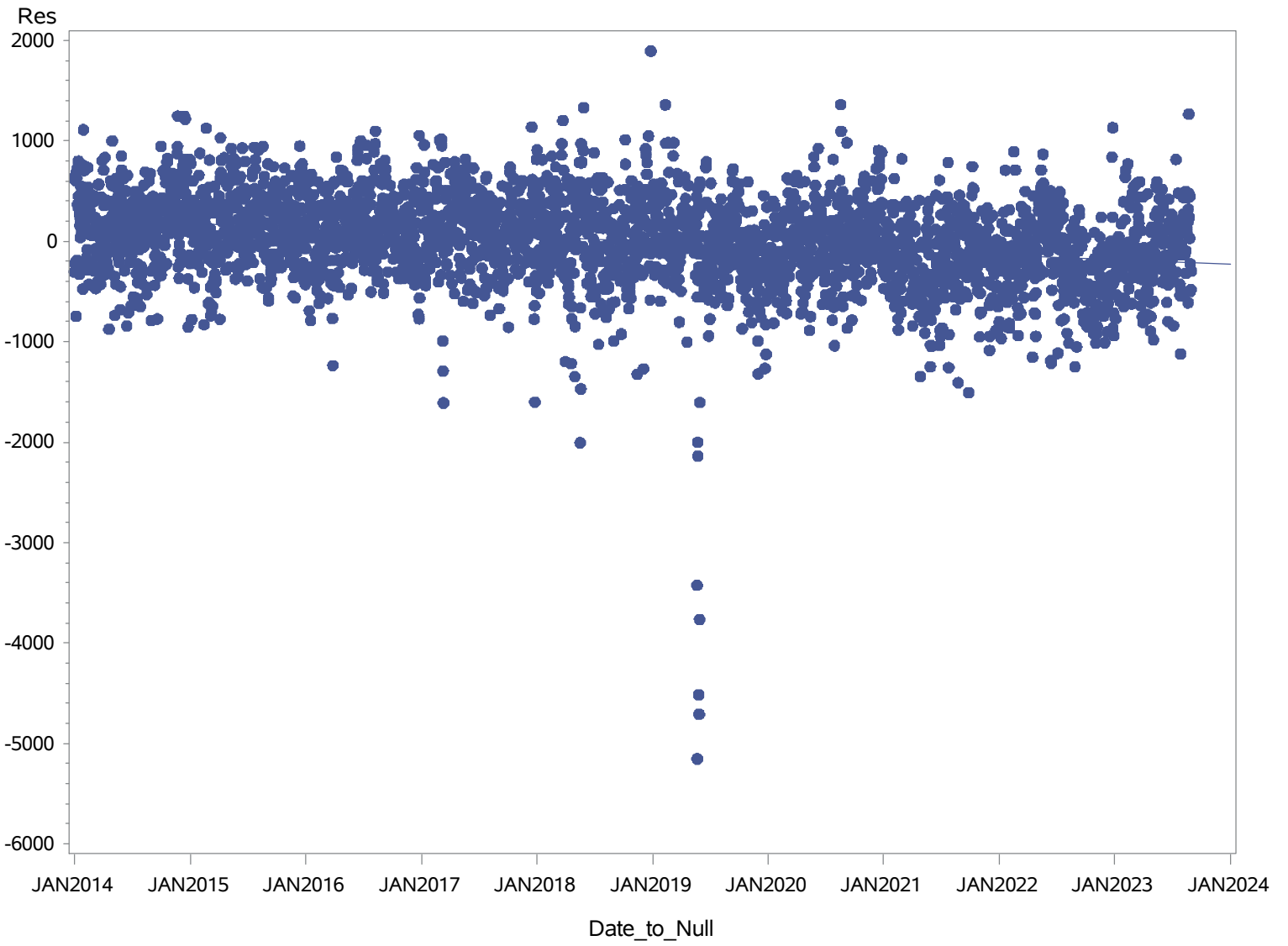


After Binary1/Trend1
and Binary2/Trend2

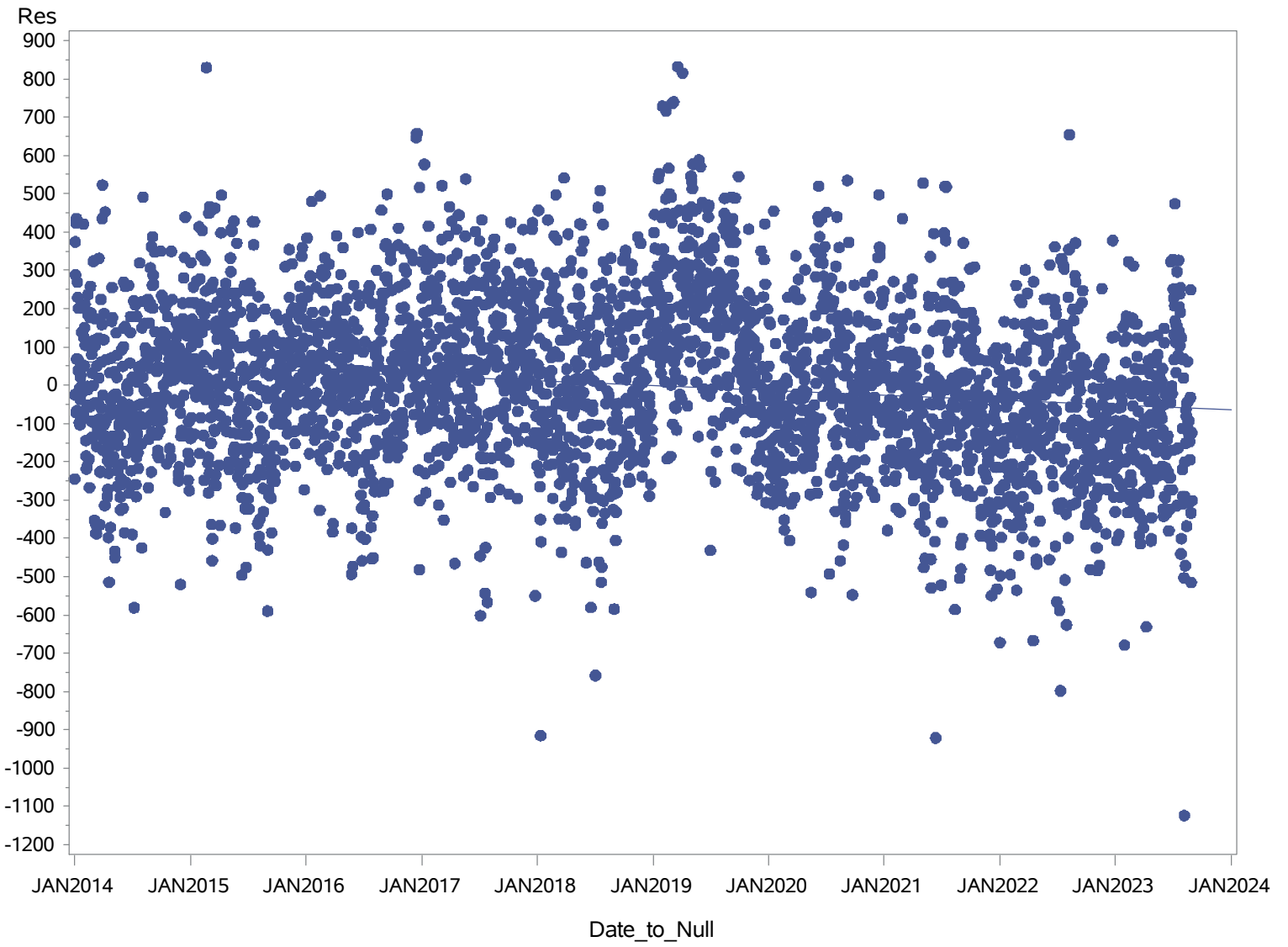
GEO_NAME=AE CURRENT_HOUR_ENDING=18



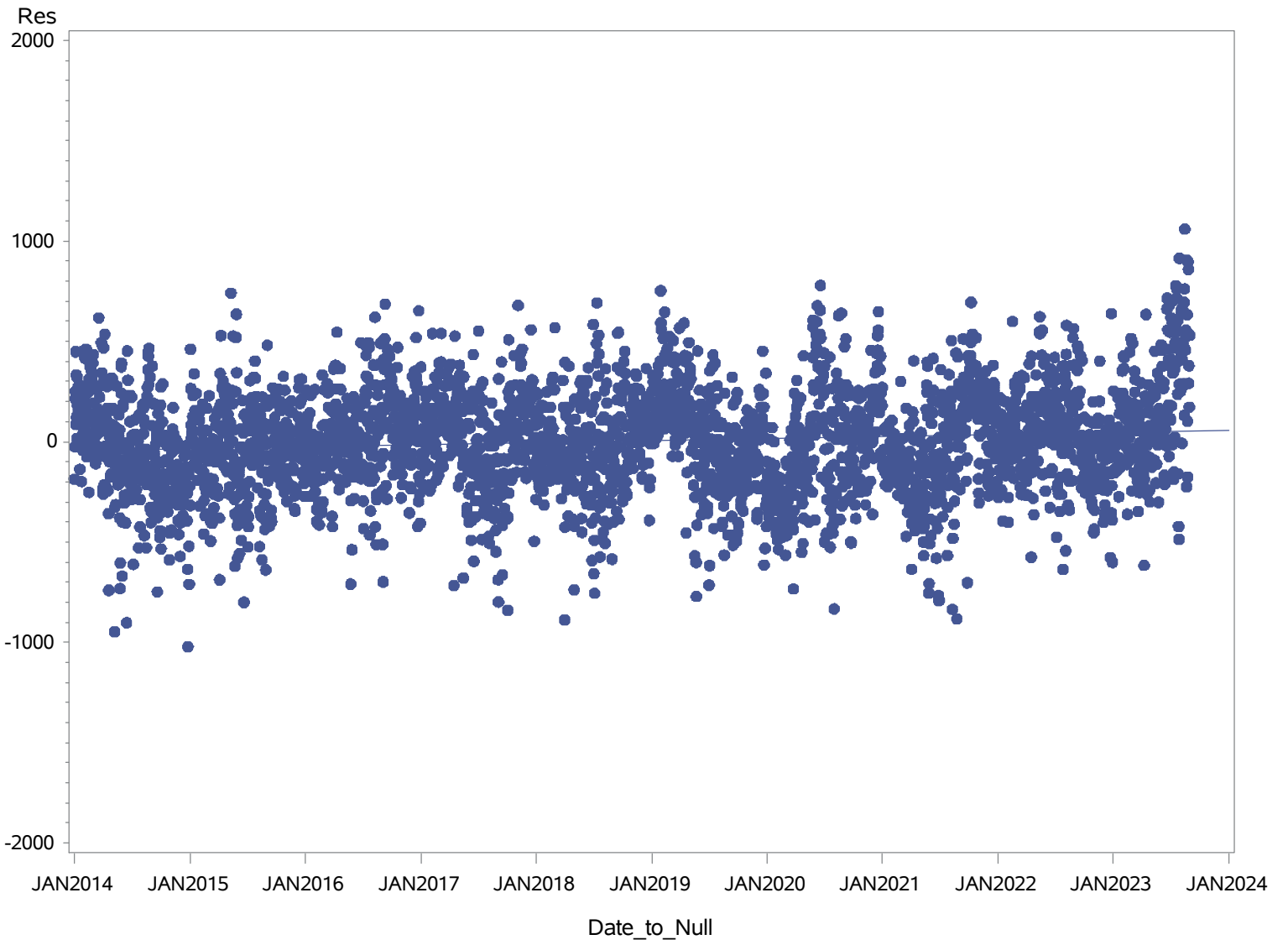
GEO_NAME=AEP CURRENT_HOUR_ENDING=18



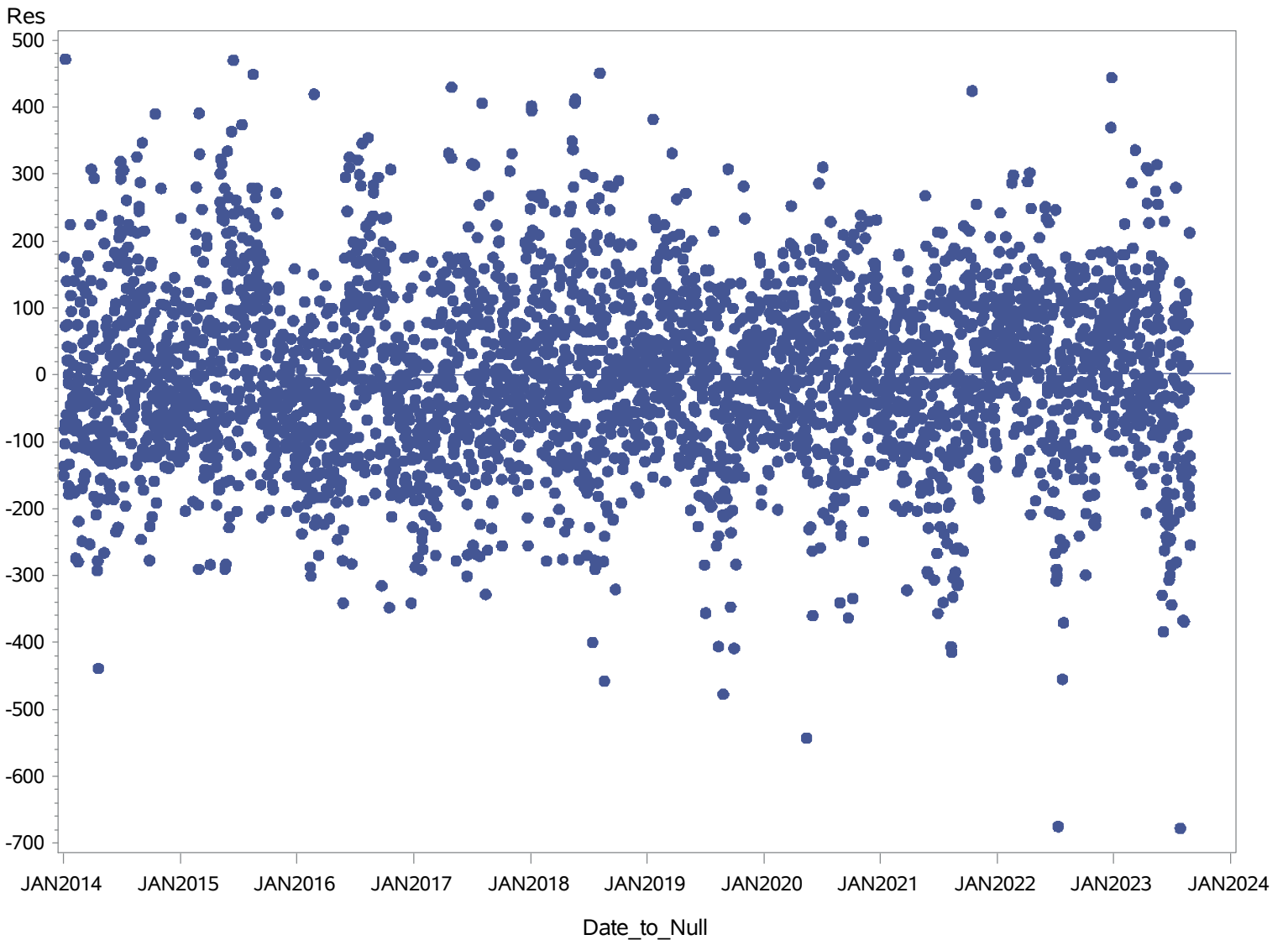
GEO_NAME=APS CURRENT_HOUR_ENDING=18



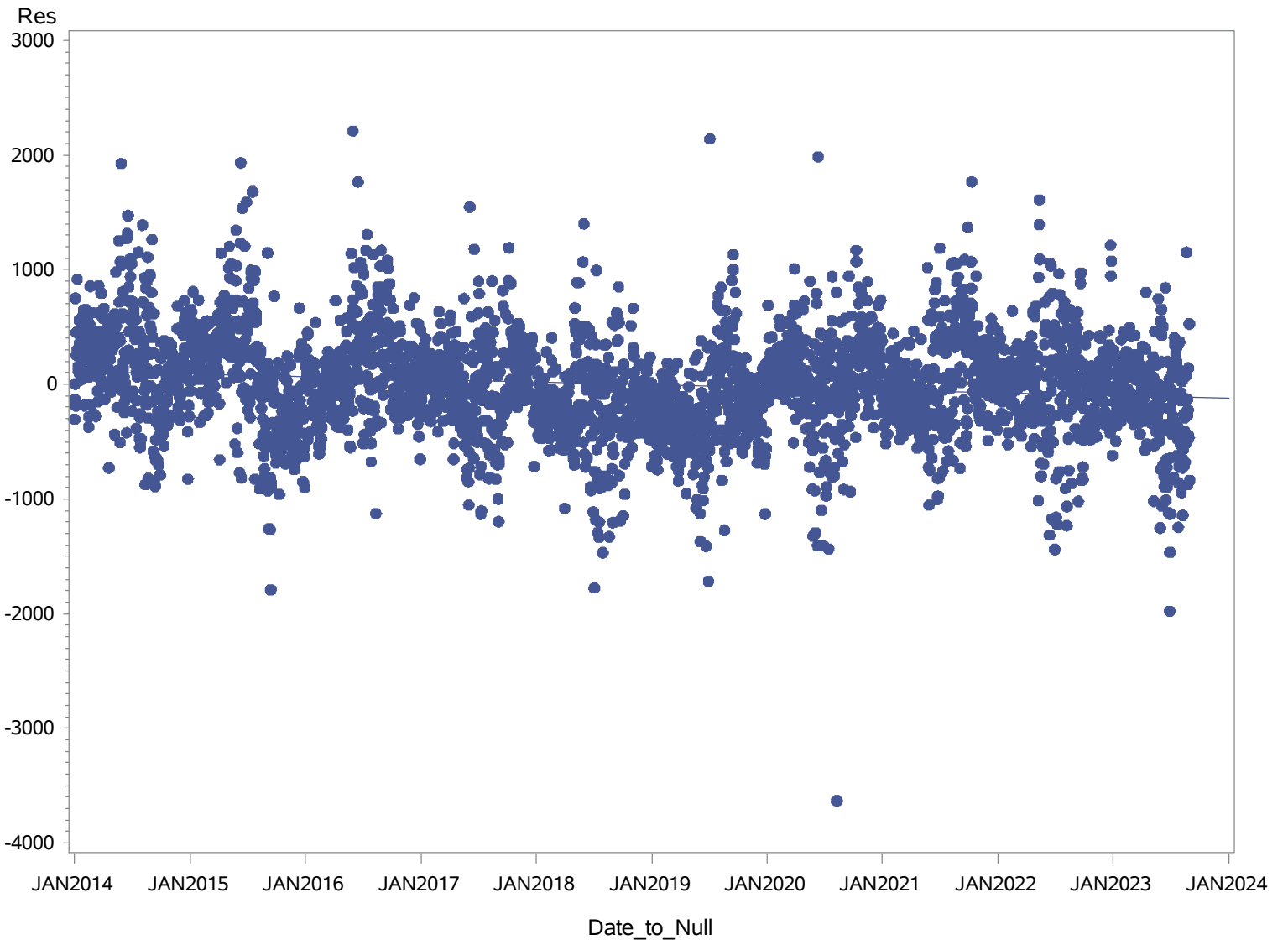
GEO_NAME=ATSI CURRENT_HOUR_ENDING=18



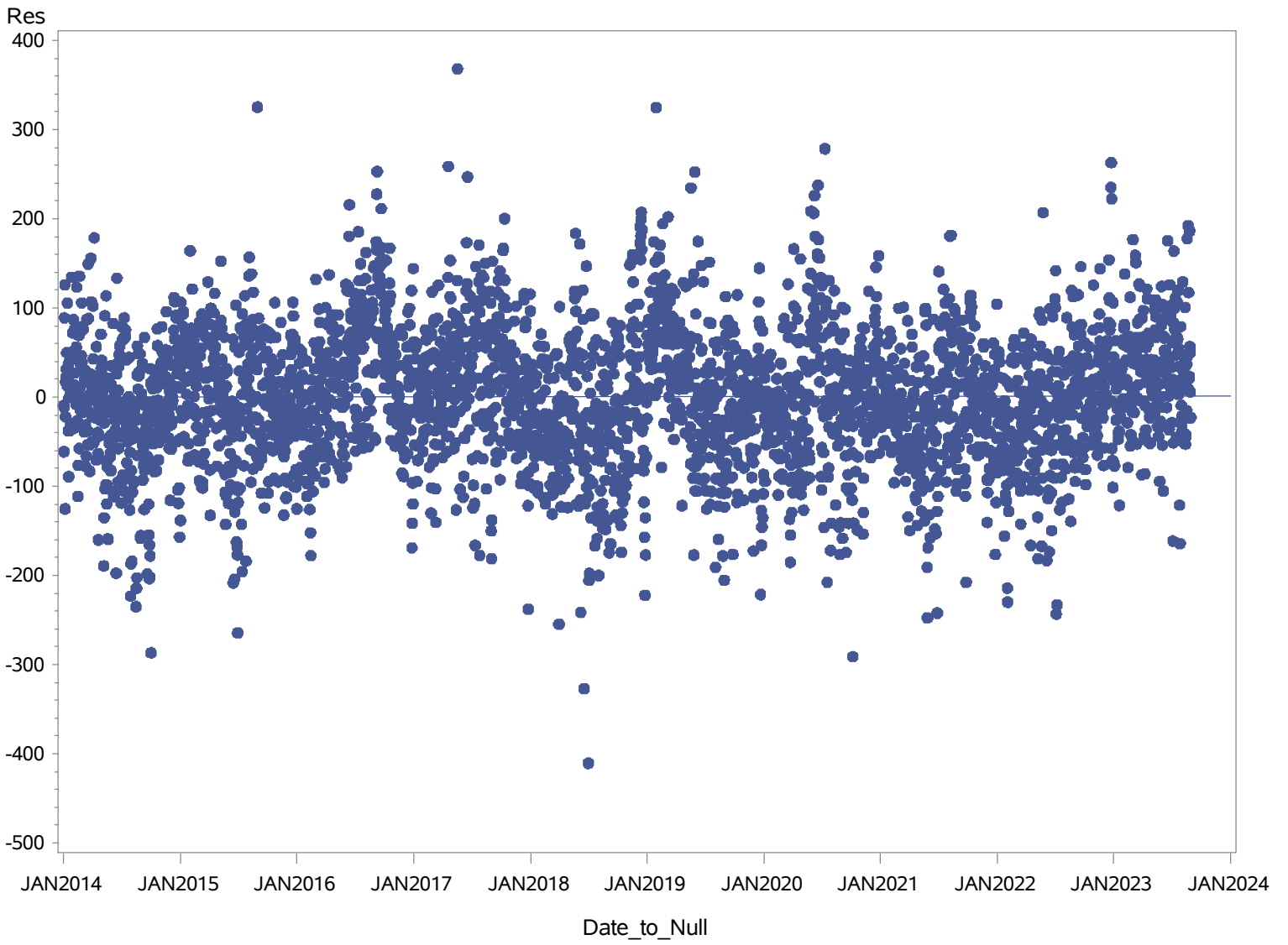
GEO_NAME=BGE CURRENT_HOUR_ENDING=18



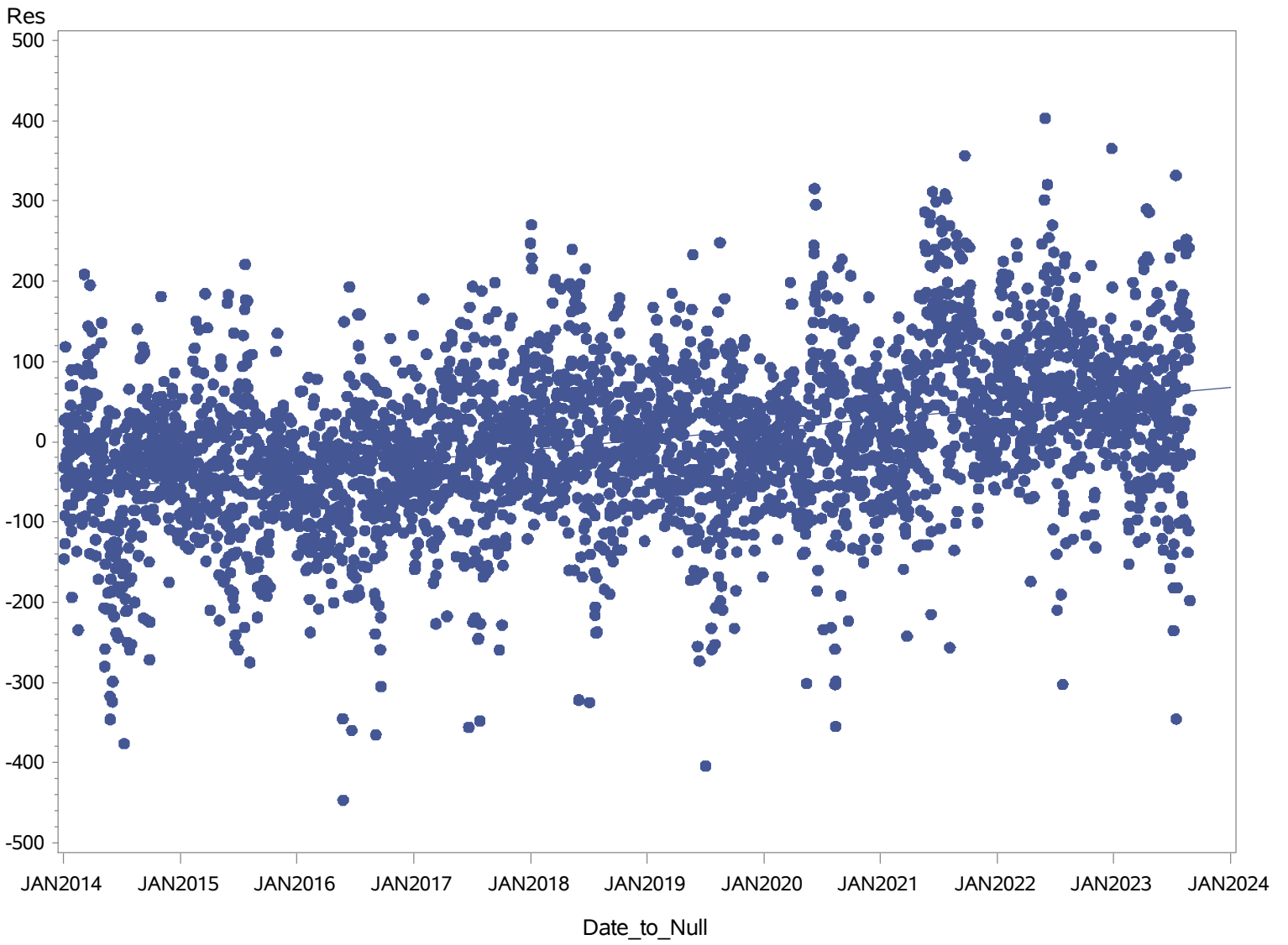
GEO_NAME=COMED CURRENT_HOUR_ENDING=18



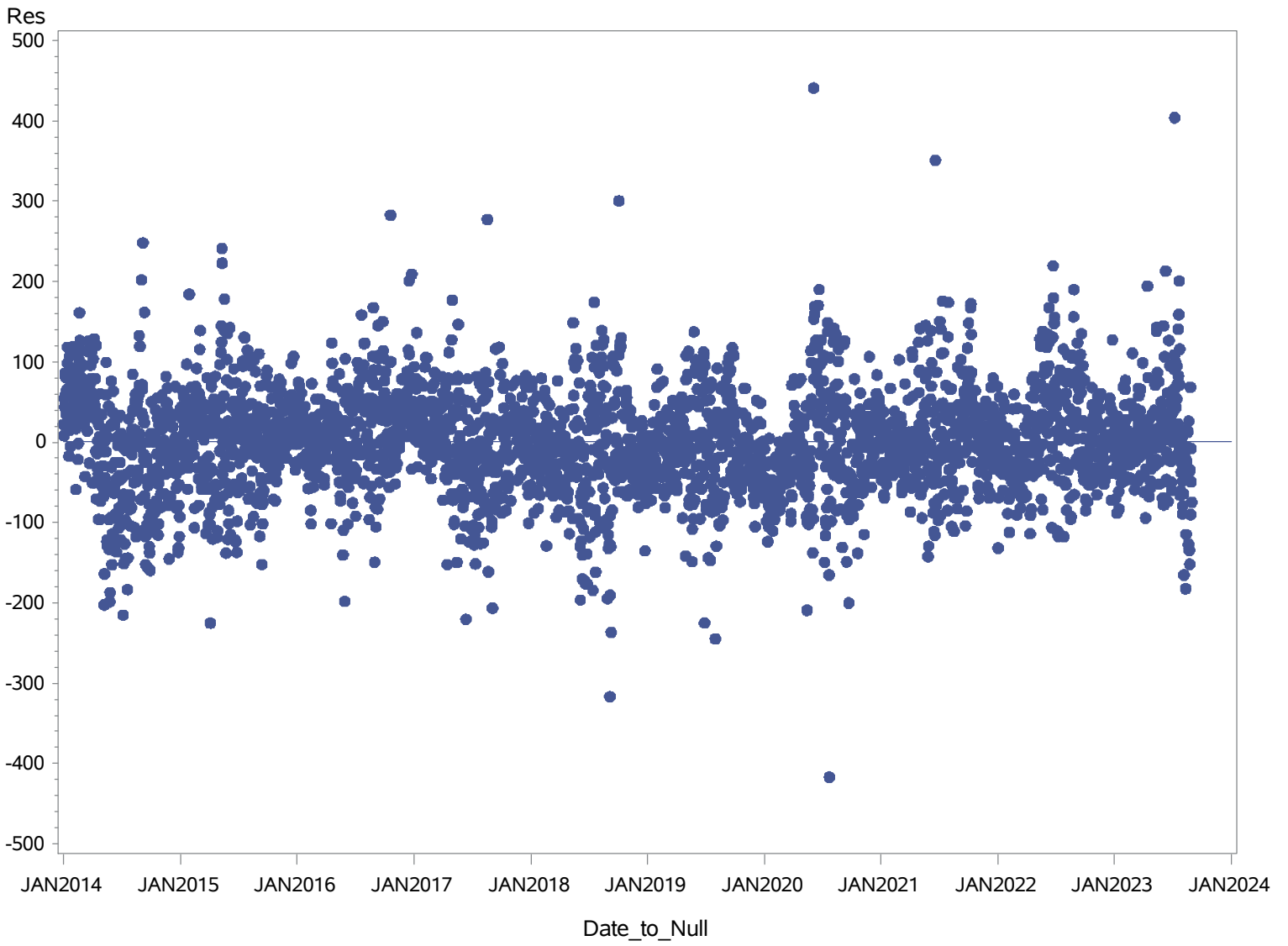
GEO_NAME=DAYTON CURRENT_HOUR_ENDING=18



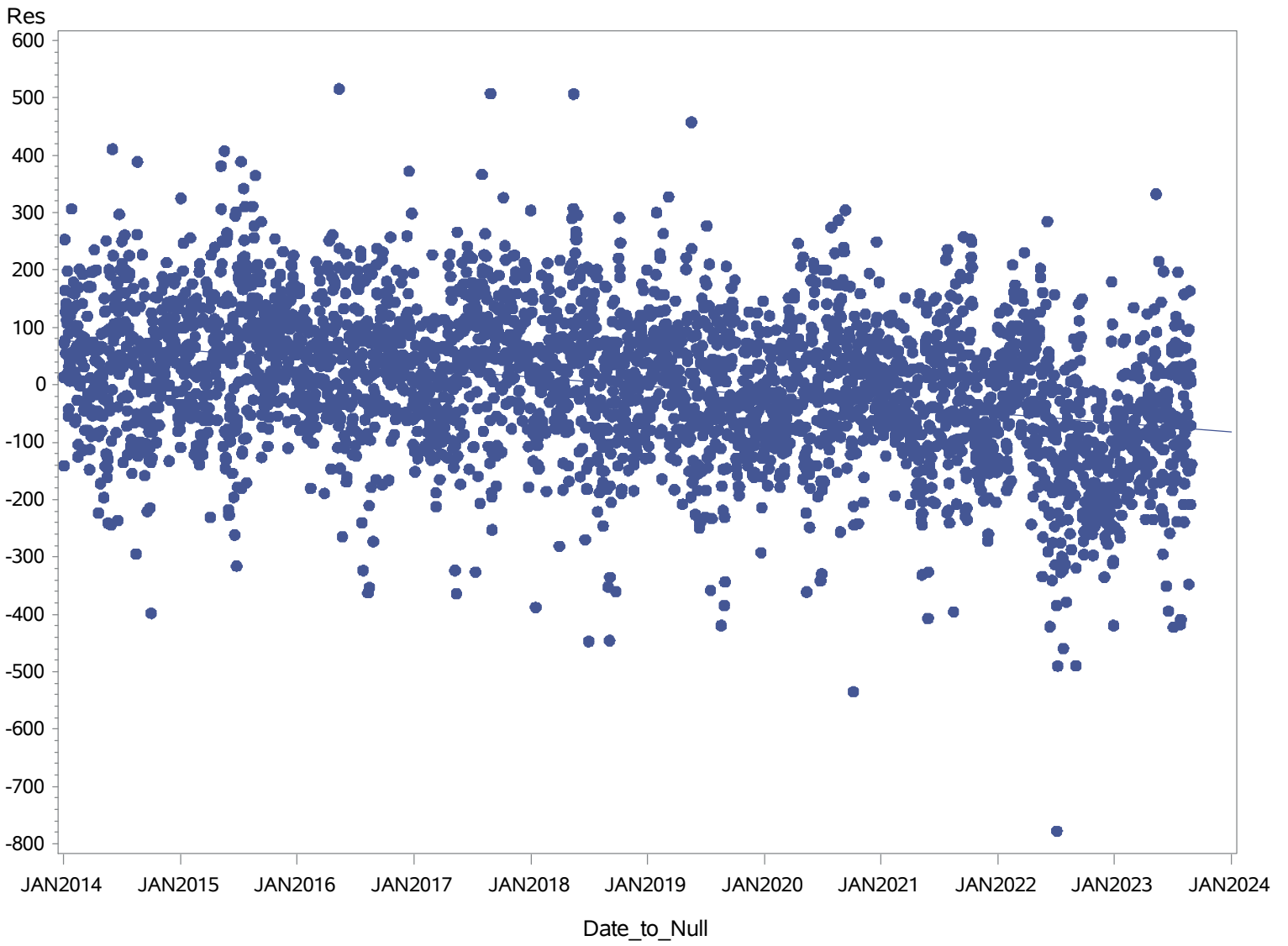
GEO_NAME=DPL CURRENT_HOUR_ENDING=18



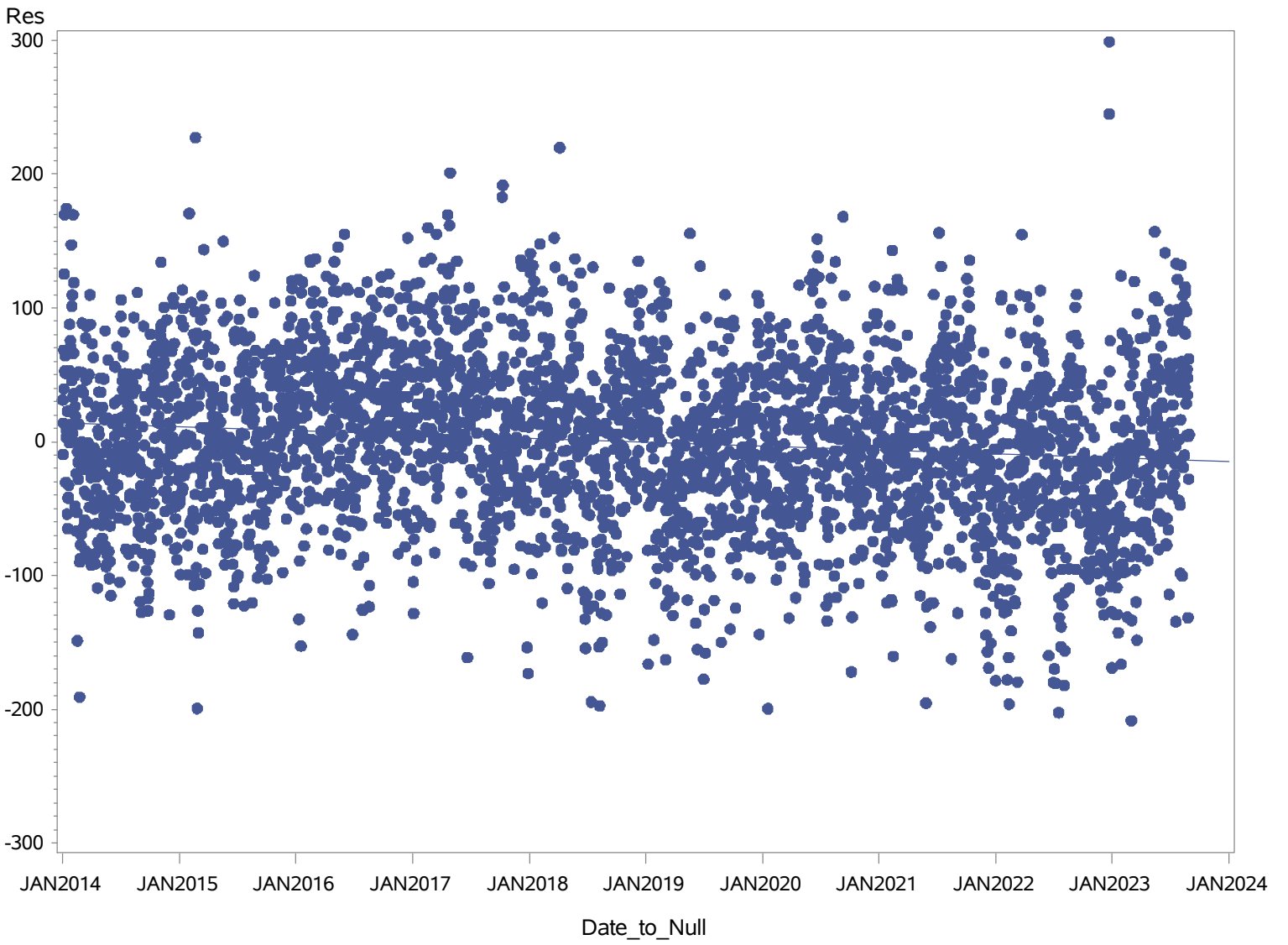
GEO_NAME=DQE CURRENT_HOUR_ENDING=18



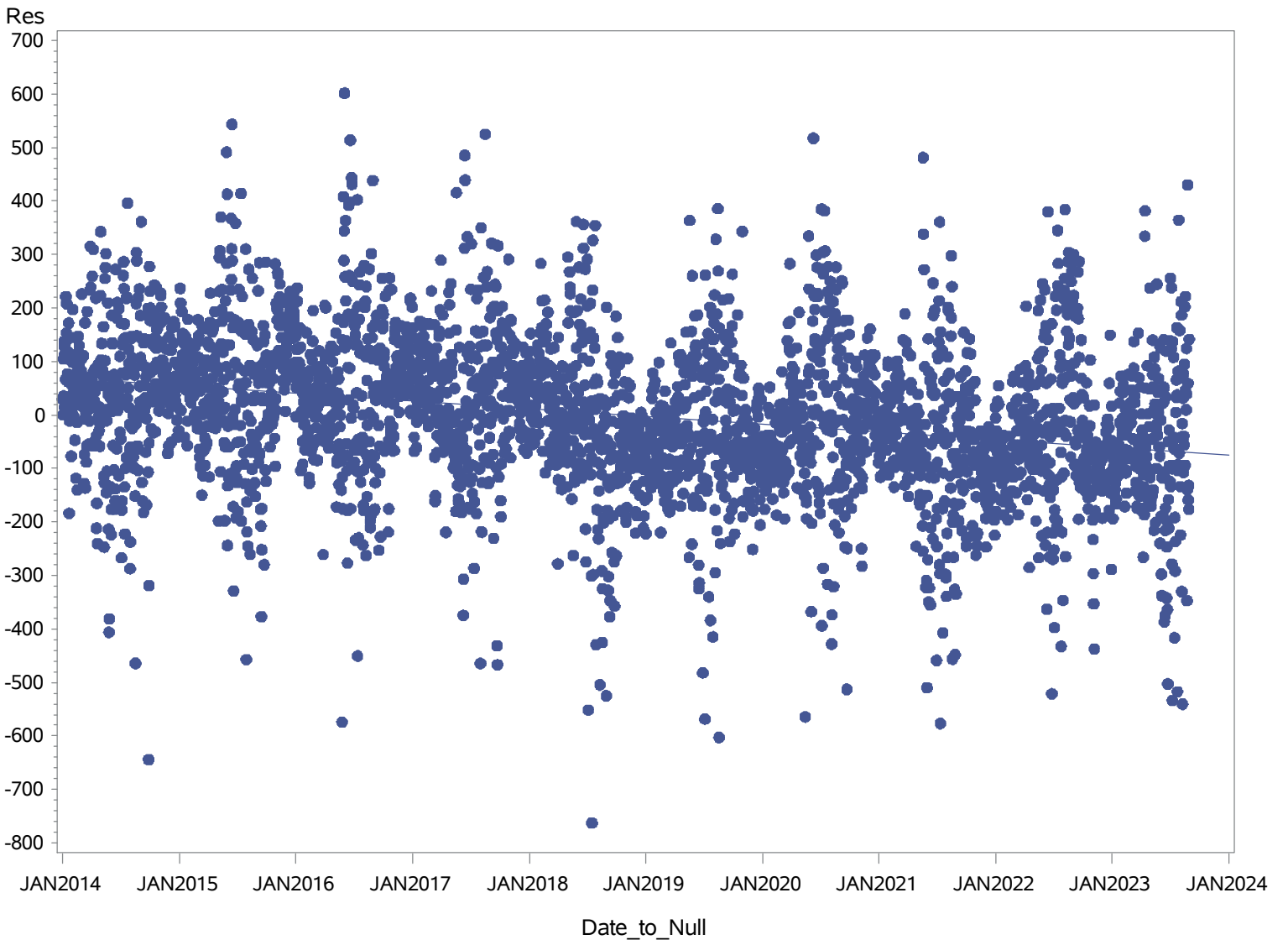
GEO_NAME=DUKE CURRENT_HOUR_ENDING=18



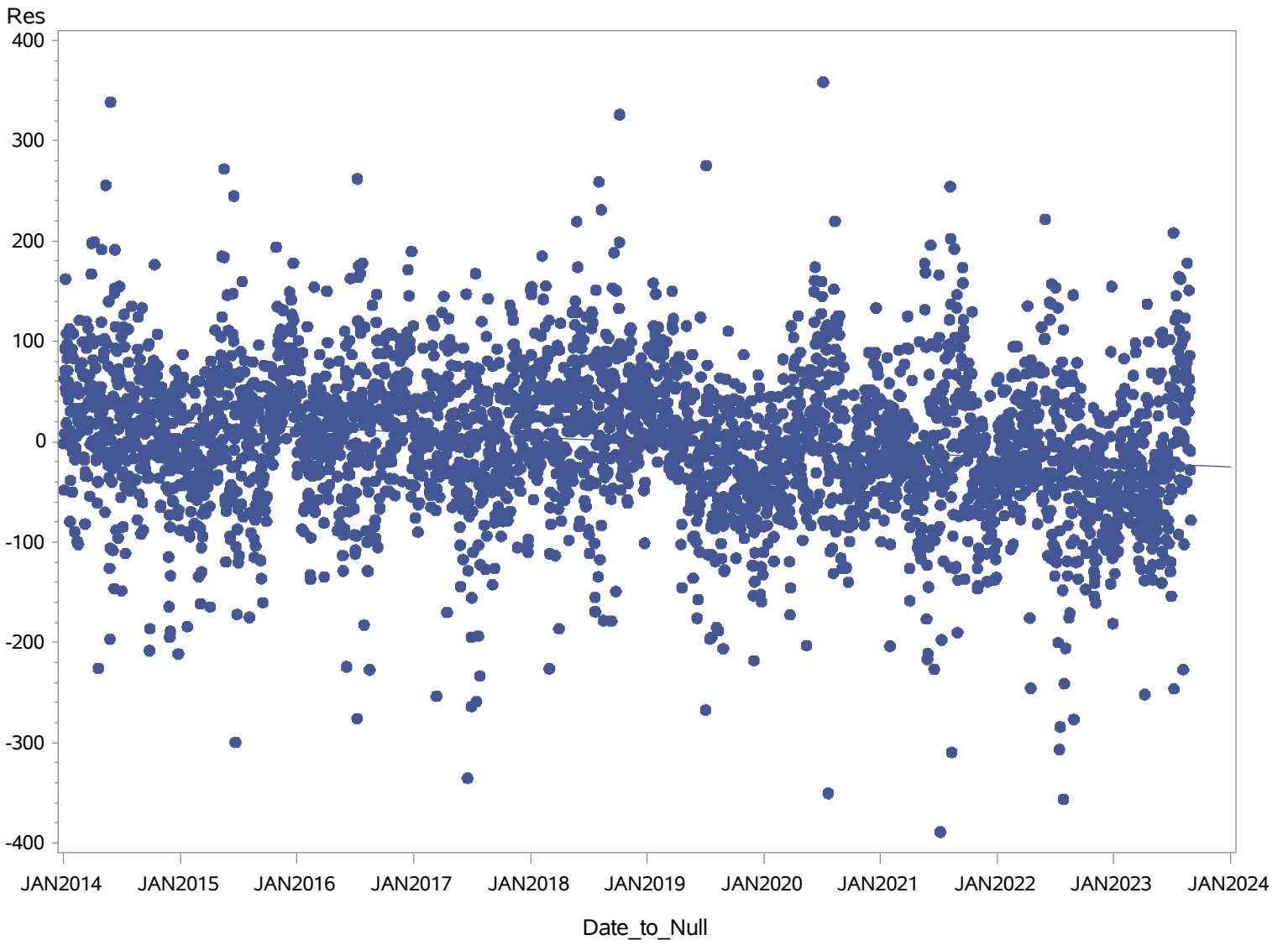
GEO_NAME=EKPC CURRENT_HOUR_ENDING=18



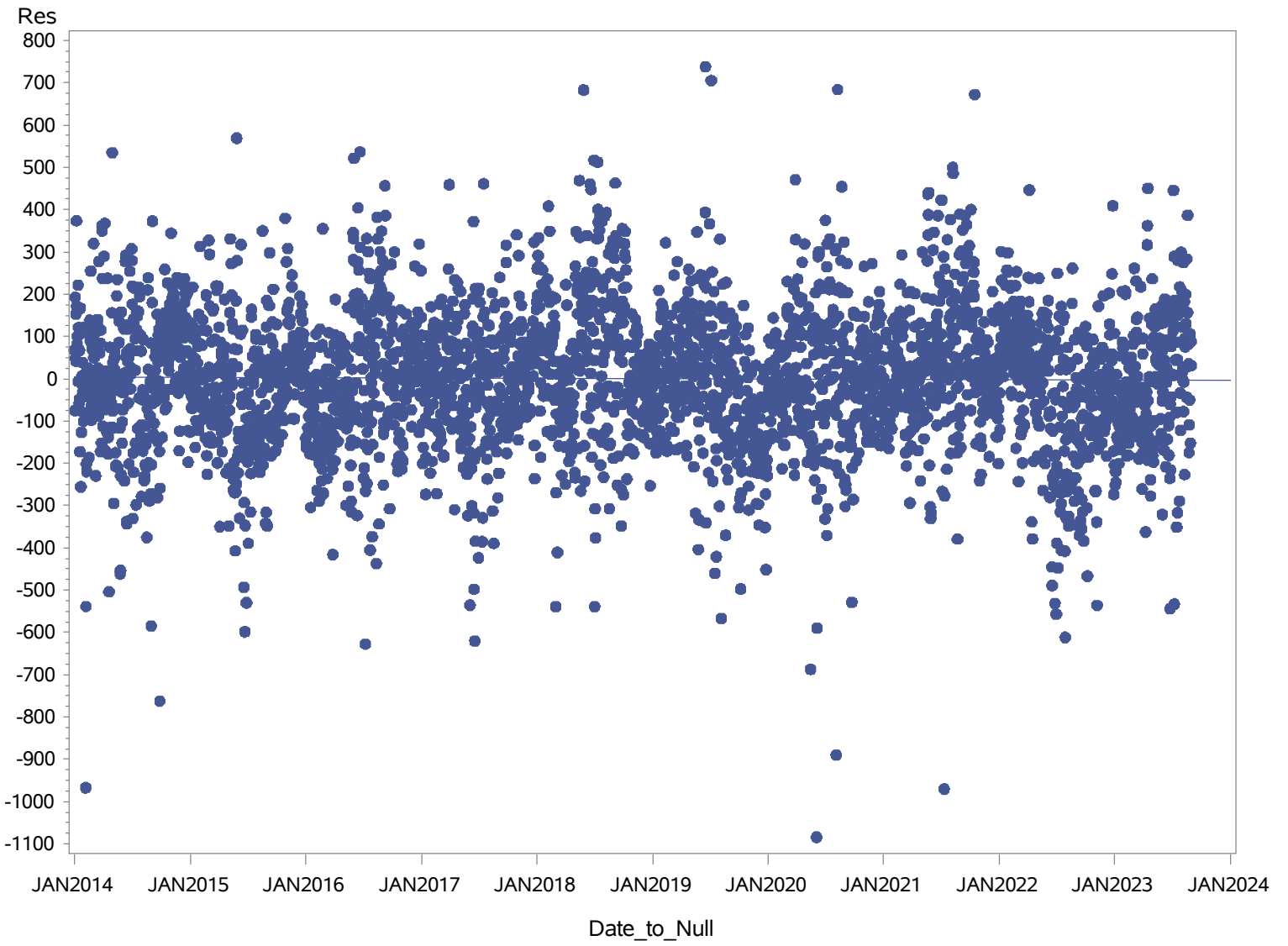
GEO_NAME=JCPL CURRENT_HOUR_ENDING=18



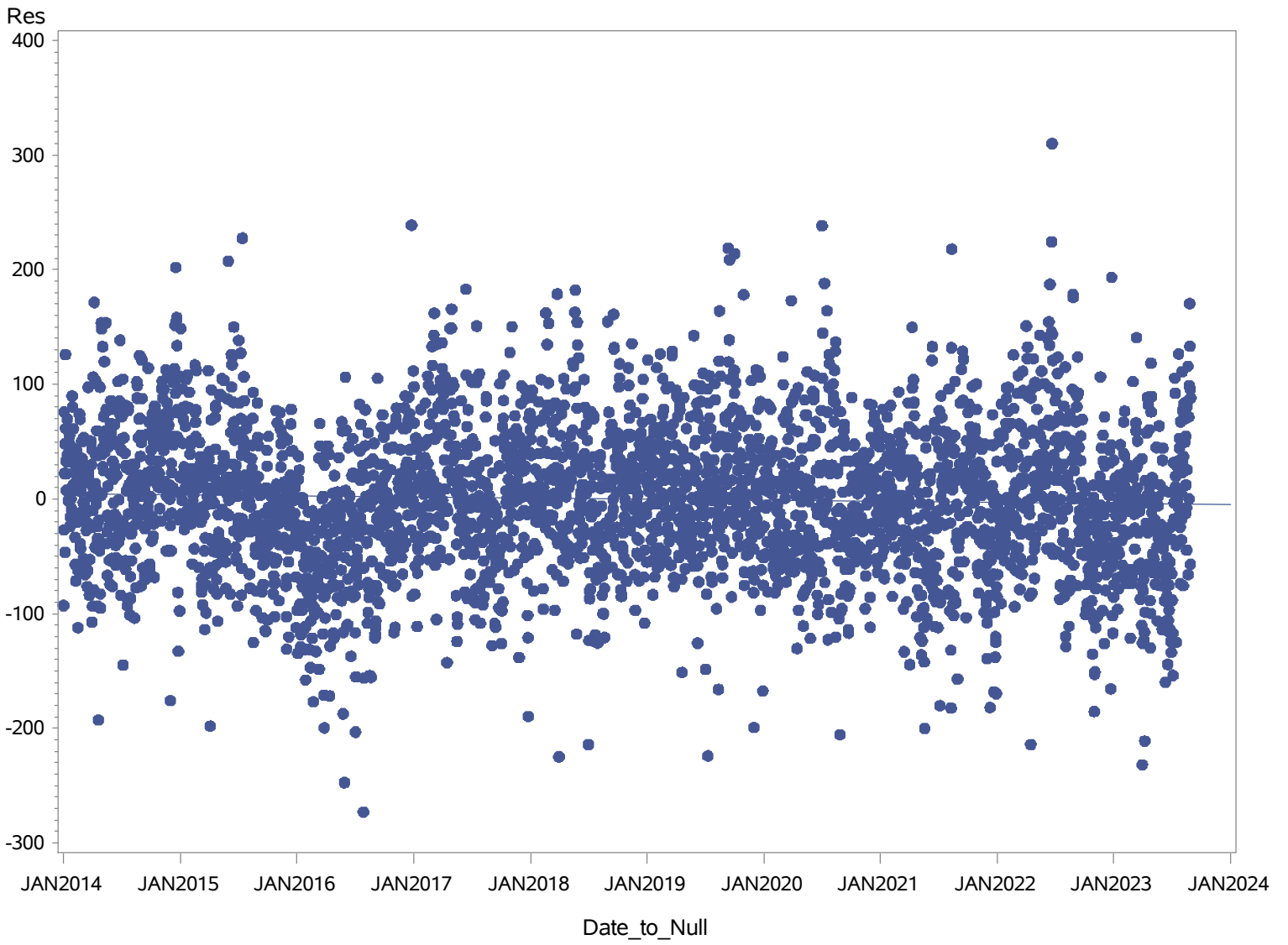
GEO_NAME=METED CURRENT_HOUR_ENDING=18



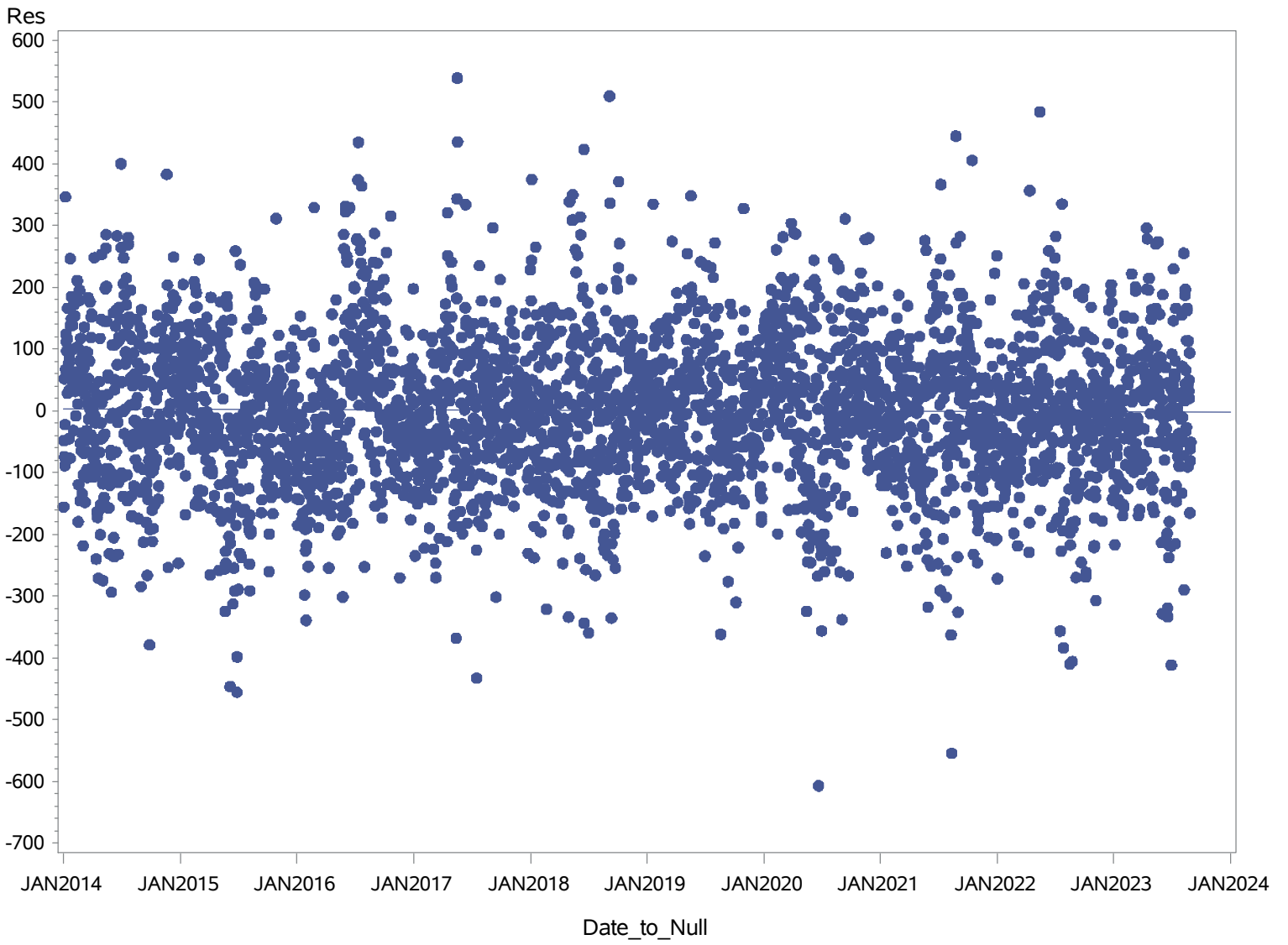
GEO_NAME=PECO CURRENT_HOUR_ENDING=18



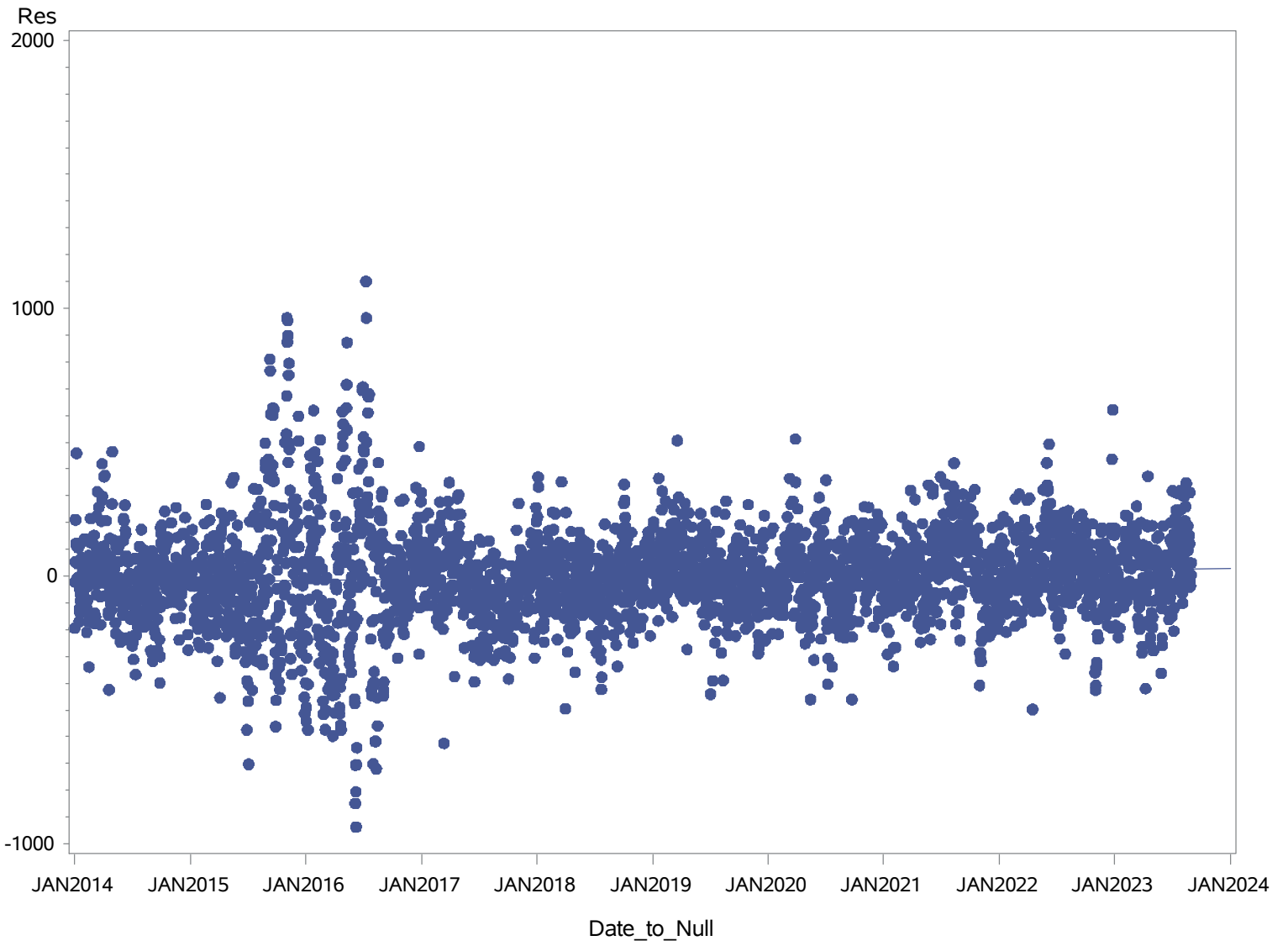
GEO_NAME=PENLC CURRENT_HOUR_ENDING=18



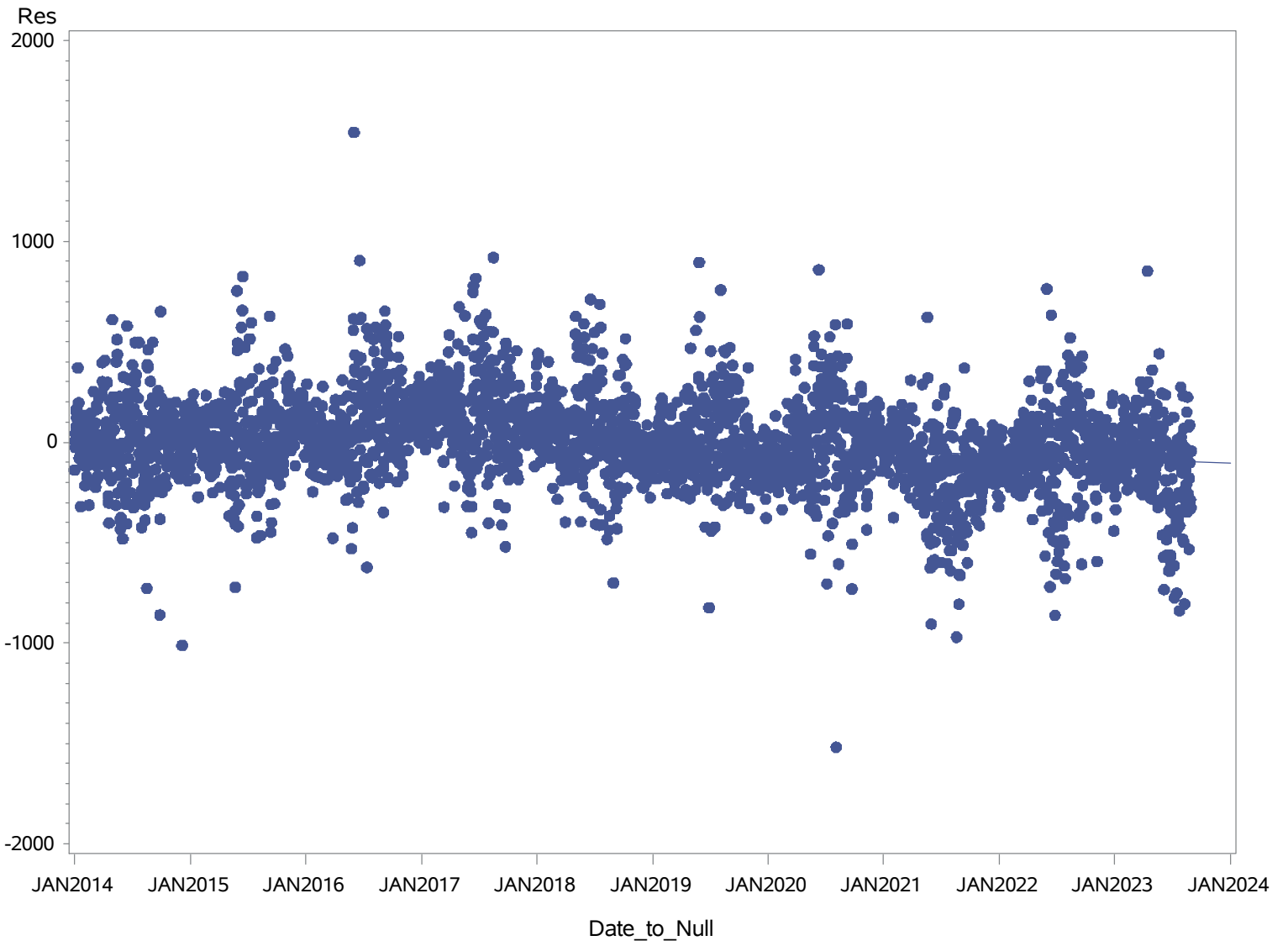
GEO_NAME=PEPCO CURRENT_HOUR_ENDING=18



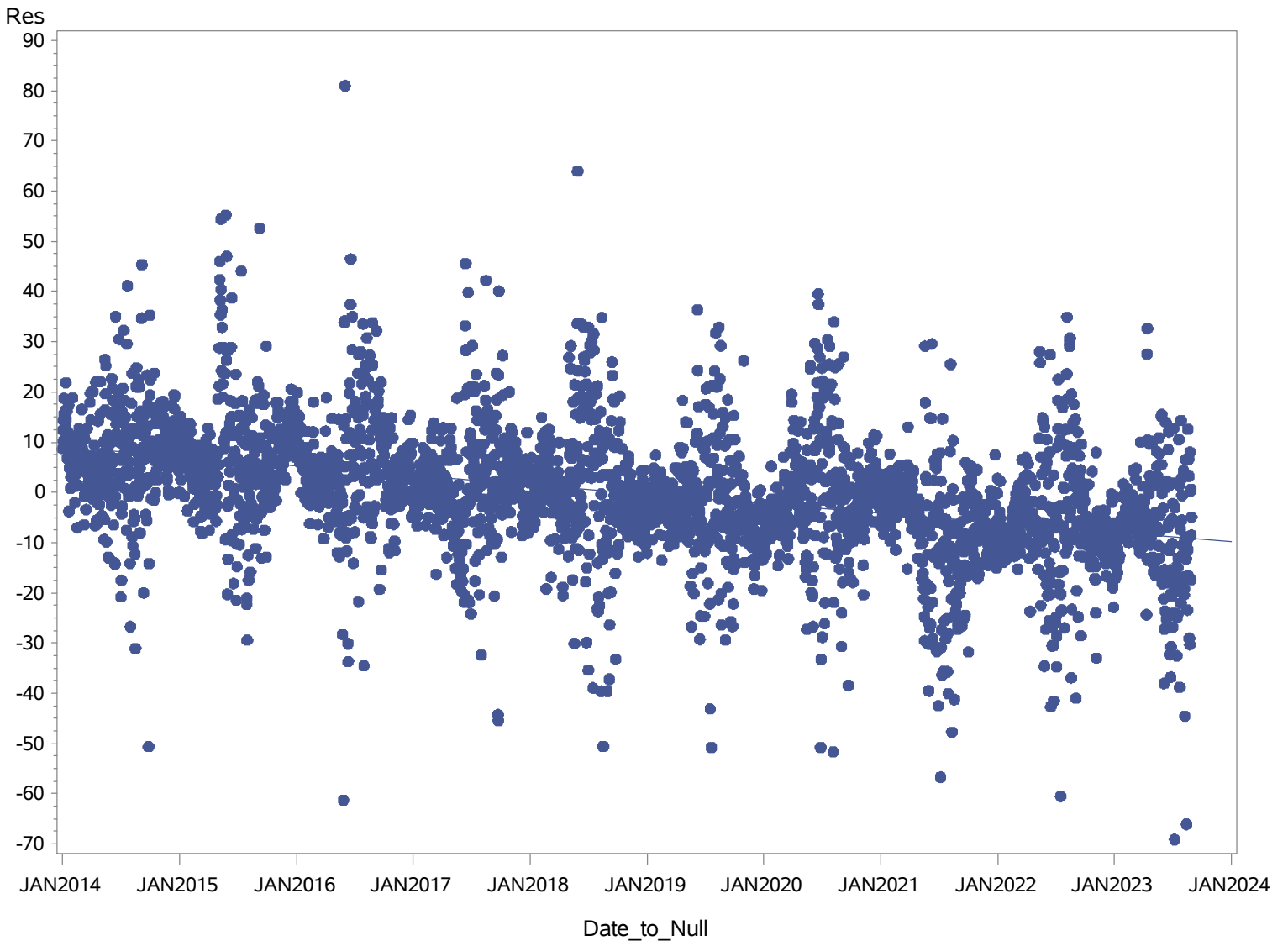
GEO_NAME=PL CURRENT_HOUR_ENDING=18



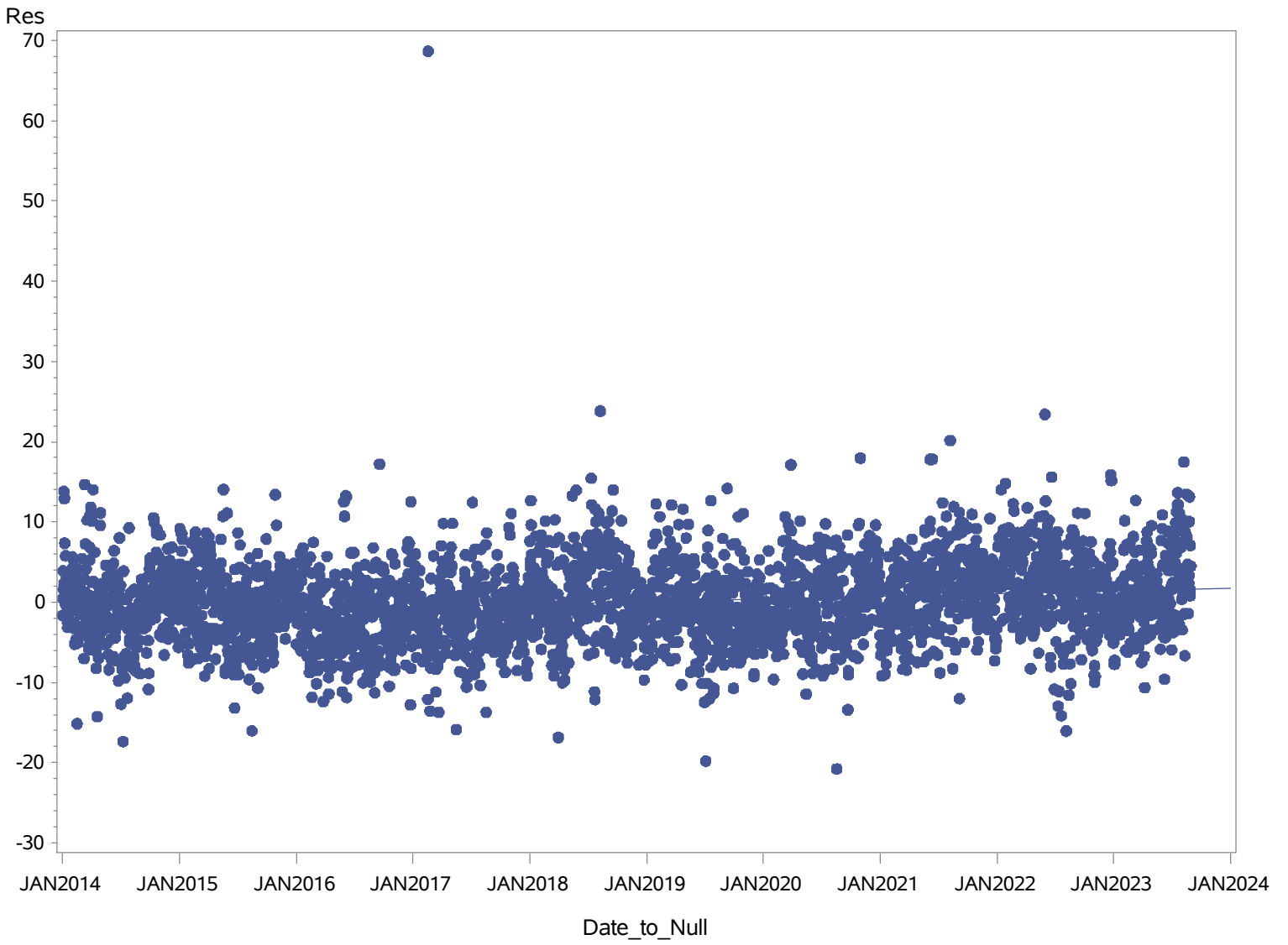
GEO_NAME=PS CURRENT_HOUR_ENDING=18



GEO_NAME=RECO CURRENT_HOUR_ENDING=18



GEO_NAME=UGI CURRENT_HOUR_ENDING=18



GEO_NAME=VEPCO CURRENT_HOUR_ENDING=18

