

NADP AMNet Boxplot Notes

YEAR	BOXPLOT COMMENTS
2024	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each speciating AMNet site (middle and bottom) in 2024. For each data set, the mean value is indicated as a red (GEM) or white bar (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury. Values above each symbol is the number of valid concentrations observed during the year. MC03 is undergoing further quality assurance review.
2023	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each speciating AMNet site (middle and bottom) in 2023. For each data set, the mean value is indicated as a red (GEM) or white bar (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury. Values above each symbol is the number of valid concentrations observed during the year.
2022	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each speciating AMNet site (middle and bottom) in 2022. For each data set, the mean value is indicated as a red (GEM) or white bar (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury.
2021	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each speciating AMNet site (middle and bottom) in 2021. For each data set, the mean value is indicated as a red (GEM) or white bar (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury.
2020	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each speciating AMNet site (middle and bottom) in 2020. For each data set, the mean value is indicated as a blue (GEM) or white bar (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury. Distributions with less than 75% completeness are marked with a "*" for GEM, and a "." for GOM/PBM distributions.
2019	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each AMNet site (middle and bottom) in 2019. For each data set, the mean value is indicated as a blue (GEM) or white line (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury.
2018	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each AMNet site (middle and bottom) in 2018. For each data set, the mean value is indicated as a blue (GEM) or white line (GOM and PBM2.5) and the median is indicated as a black bar. Sites with no GOM and PBM2.5 data shown did not monitor for speciated mercury. The percent data completeness for the site is reported in parenthesis next to the site ID in the GEM plot. GOM and PBM2.5 values reported as zero were assigned a value of one-half the instrument detection limit (set to 0.21 pg/m3) for the production of the logarithmic plots.
2017	Hourly GEM concentration in ng/m3 for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m3 for each AMNet site (bottom) in 2017. Horizontal lines in each plot represent the respective 2017 median values.

2016	Hourly GEM concentration ranges in ng/m ³ for each AMNet site (top), and quarterly relative percentage (Q1 = January, February, March, etc.) for each AMNet site (bottom), with GOM concentrations on the left, and PBM2.5 concentrations on the right, for 2016. Size of the symbol in each plot is relative to the annual concentration in pg/m ³ .
2015	Hourly GEM concentrations in ng/m ³ for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m ³ for each AMNet site (bottom), 2015. The bubble charts indicate the number of valid observations for GEM values above 8 ng/m ³ , and GOM and PBM2.5 above 40 pg/m ³ , the upper limit shown with the box plots. Horizontal lines in each graph represent the respective 2015 median values.
2014	Hourly GEM concentrations in ng/m ³ for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m ³ for each AMNet site (bottom), 2014. The bubble charts indicate the number of valid observations for GEM values above 8 ng/m ³ , and GOM and PBM2.5 above 40 pg/m ³ (400 pg/m ³ for HI00), the upper limit shown with the box plots. Horizontal lines in each graph represent the respective 2014 median values. Note the different scale for HI00 in the bottom plot.
2013	Hourly GEM concentrations in ng/m ³ for each AMNet site (top) and 2-hour GOM and PBM2.5 concentrations in pg/m ³ for each AMNet site (bottom), 2013. The bubble charts indicate the number of valid observations for GEM values above 8 ng/m ³ , and GOM and PBM2.5 above 40 pg/m ³ (400 pg/m ³ for HI00), the upper limit shown with the box plots. Note the different scale for HI00 in the bottom plot.
2012	a) Hourly GEM concentrations in ng/m ³ for each AMNet site and b) 2-hour GOM and PBM2.5 concentrations in pg/m ³ for each AMNet site in 2012. The bubble chart indicates the number of valid observations for both GOM and PBM2.5 above 40 pg/m ³ (400 pg/m ³ for HI00), the upper limit shown with the box plots. Note the different scale for HI00 in figure b.
2011	a) Hourly GEM concentrations in ng/m ³ for each AMNet site and b) 2-hour GOM and PBM2.5 concentrations in pg/m ³ for each AMNet site in 2011. The bubble chart indicates the number of valid observations for both GOM and PBM2.5 above 40 pg/m ³ , the upper limit shown with the box plots.
2010	Stem and whisker plots of average mercury atmospheric a) GOM, and b) PBM, for each AMNet site (line = median, color = 25th to 75th percentiles, and whiskers= 5th and 95th percentiles, pg/m ³), and smoothed line plots of monthly average c) GEM, for each site (ng/m ³).
2009	Whisker plots for GOM and PBM. Sites have valid data for at least half the potential time periods (i.e. >1500 time periods), 2009.