

# Assessing The Atmospheric Deposition Of Mercury To Lake Michigan: The Importance Of The Chicago/Gary Urban Area On Wet And Dry Deposition

by Matthew S Landis

concentrations of Hg(0) in the atmosphere are on the order of 1-2 ng/m. 3 After wet or dry deposition to land or plant surfaces, oxidized mercury can be reduced .. Landis et al (2002) investigated the role of the Chicago/Gary urban area on mercury levels of both wet and dry deposition to southern Lake Michigan. Get this from a library! Assessing the atmospheric deposition of mercury to Lake Michigan : the importance of the Chicago/Gary urban area on wet and dry . Mercury Risk Assessment - Brookhaven National Laboratory Atmospheric Deposition of Mercury and Trace Metals to the . Sensitivity of simulated atmospheric mercury concentrations and . to limit wild fish consumption because of contamination by methylmercury.2 to manage risks should carefully assess .. SOURCE: P. F. Schuster et al., "Atmospheric Mercury Deposition During the Last sition of Mercury to Lake Michigan: The Importance of the Chicago/Gary Urban Area on Wet and Dry Deposi-. Wet and dry deposition fluxes of mercury in Japan 24 Aug 2011 . The characteristics of Hg wet deposition were investigated in a rural area of Korea from August 2006 to Monthly VWM Hg(T) and atmospheric Hg(p) concentrations were well The METAALICUS (Mercury Experiment To Assess Atmo- Lake Michigan: The Importance of the Chicago/Gary Urban Area. Great Lakes Monitoring Great Lakes US EPA Modeling of Local Deposition of Mercury from Coal Fired Power Plants 7. 3.1 Landis, M.S. Assessing the Atmospheric Deposition of Mercury to Lake Michigan: The Importance of the Chicago/Gary Urban Area on Wet and Dry Deposition. Spatio-temporal variation of total mercury in precipitation in the .

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Atmospheric deposition of Hg is a combination of both dry and wet . Thus, it is of great significance to investigate the spatial and temporal variability of atmospheric Hg .. Pollution levels of Hg in precipitation can be assessed by comparing the .. in the Lake Michigan basin: influence of the Chicago/Gary urban area. to view this paper as an Adobe Acrobat PDF. - American Enterprise Atmospheric Environment 39 (2005) 3139–3146. Wet mercury wet deposition in Japan is explained by precipitation amount. and dry deposition fluxes is required for the assessment deposition of mercury in Lake Michigan. significant role in mercury deposition in this urban area. In this study, wet and dry deposition 3 Mar 2014 . important source of mercury to terrestrial and aquatic ecosys- tems (Lindberg et position in the urban area of Guiyang (Feng et al., 2002; Tan mercury lost via wet and dry deposition (Sakata and Maru- moto Assess., 181, 273–289, . in the Lake Michigan basin: influence of the Chicago/Gary urban. Mercury Monitoring Workshop - State of Michigan 18 May 2014 . In rainy areas dry deposition can be neglected compared with wet as in the case of mercury in Lake Michigan and Lake Superior, which showed that Study of atmospheric bulk deposition of PAHs in an urban area reveals the the assessment of atmospheric deposition starting from the analysis of the An assessment of atmospheric mercury in the Community Multiscale . 20 Jun 1999 . parameters: emission speciation, Hg(II) dry deposition velocity, precipitation amount, important to assess the ability of the model to act as a numerical Landis, M.S., Assessing the atmospheric deposition of mercury to Lake. Michigan: The importance of the Chicago-Gary urban area on wet and dry ATMOSPHERIC MERCURY DEPOSITION IN AN URBAN . 26 Mar 2003 . Mercury Monitoring in Michigan and the Great Lakes. Basin. Methods been shown to be sensitive to atmospheric deposition of mercury. Since 1988 .. Study and took urban measurements in the Chicago/Gary areas. They found They found wet deposition (614 kg/yr) was most important to the loadings Appendix F: Atmospheric Modeling and Receptor Modeling 10 May 2013 . Wet deposition of mercury (Hg) across the United States is influenced by 27% (wet) and 17% (dry) to deposition fluxes over the US in 2004–2005. and to assess the role of domestic emission reductions in explaining the trends. . in the Lake Michigan Basin: influence of the Chicago/Gary urban area. Curriculum Vitae (PDF) Assessing the atmospheric deposition of mercury to Lake Michigan : the importance of the Chicago/Gary urban area on wet and dry deposition. Atmosphere Free Full-Text Decreases in Mercury Wet Deposition . Synopsis: The atmospheric concentrations of PCDDs and PCDFs were measured in . This suggest that urban and industrial areas act as sources of PCDDs and PCDFs to Methods Used: Gaseous and particulate air samples and wet deposition .. assessment of dry deposition is lacking, and the speciation of mercury Assessing the atmospheric deposition of mercury to Lake Michigan . Division of Environmental Assessment and Restoration. Bureau of The University of Michigan Air Quality Laboratory, Ann Arbor, Michigan. June 25 . measured values at the 6 Florida TMDL wet deposition measurement sites. Results CMAQ predicts the highest mercury dry deposition at Davie and Tampa, which likely. Assessing the atmospheric deposition of mercury to Lake Michigan . quality at the watershed level, the importance of local sources in addition to regional . quantify the wet deposition of mercury in the greater Pensacola area on time for atmospheric

deposition collection, Snag Lake for sediment core collection, samples were thawed, weighed wet, dried, weighed dry, and homogenized WSJ Op-Ed Denies Dangers Of U.S. Mercury Emissions Research The relative importance of the Chicago/Gary urban area was investigated to mercury (Hg) concentrations and wet deposition in the Lake Michigan basin. in the Chicago/Gary urban area than surrounding sites: Hg in precipitation was a factor .

Atmospheric Mercury Deposition to Lake Michigan during the Lake Michigan BioOne Online Journals - A Synthesis of Progress and Uncertainties . Title: Assessing the atmospheric deposition of mercury to Lake Michigan: The importance of the Chicago/Gary urban area on wet and dry deposition. Authors: Assessing the atmospheric deposition of mercury to Lake Michigan . Characteristics of atmospheric mercury deposition and size . Since the inception of the atmospheric research program in 2000, I setup two new EPA mobile . My Ph.D. research focused on assessing the importance of the Chicago/Gary urban area on wet and dry deposition of mercury to Lake Michigan. Assessing the atmospheric deposition of mercury to Lake Michigan: the importance of the Chicago/Gary urban area on wet and dry deposition. Front Cover. PDF(1368K) - Wiley Online Library 23 Jan 2015 . Atmospheric deposition occurs when pollutants are transferred from the air to the earths surface. The atmospheric pathway is important for many toxic substances EPA and its partners account for wet deposition, dry deposition, and affected by local pollution from urban areas) for each of the Lakes. Impacts of Local Depositions - National Energy Technology Laboratory The sensitivity of simulated wet deposition to emission speciation and redox . Landis, M. S., Assessing the atmospheric deposition of mercury to Lake Michigan: The importance of the Chicago-Gary urban area on wet and dry deposition, Assessing the atmospheric deposition of mercury to Lake Michigan . 7 Aug 2012 . Multiscale Air Quality (CMAQ) model at an urban site and mercury concentration and deposition the Great Lakes Region. (GLR) metrics for RHg are much worse than for mercury wet depo- that the bromine oxidation pathway may be important in the .. Dry deposition of PHg is governed by the aerosol. Atmospheric Mercury in the Lake Michigan Basin: Influence of the . Publication » Assessing the atmospheric deposition of mercury to Lake Michigan: The importance of the Chicago/Gary urban area on wet and dry deposition. Atmospheric Deposition: Sampling Procedures, Analytical Methods . 27 May 2011 . Released mercury may enter the air, persist in the atmosphere and travel great . Estimates suggest mercury wet deposition accounts for 50% to 90% of the mercury (Hgp) are each important in both wet and dry deposition, most The Chicago/Gary urban area has been shown to have substantial 39 Mercury in the Environment and Patterns of Mercury Deposition from . Landis, M.S. Assessing the Atmospheric Deposition of Mercury to Lake Michigan: The Importance of the Chicago/Gary Urban Area on Wet and Dry Deposition. Assessing the atmospheric deposition of mercury to Lake Michigan . 17 Sep 2014 . Villiers T, McConnell R. Air pollution exposure assessment for . southern Lake Michigan: Influence from the Chicago/Gary urban area. Sci. among children with asthma: Vulnerability by measures of asthma severity and residence area. Spatial patterns in wet and dry deposition of atmospheric mercury. Matthew S. Landis LinkedIn Assessing the Atmospheric Deposition of Mercury to Lake Michigan: The Importance of the Chicago/Gary Urban Area on Wet and Dry Deposition.”. Mercury wet deposition in rural Korea. . - RSC Publishing Assessing the atmospheric deposition of mercury to Lake Michigan: the importance of the Chicago/Gary urban area on wet and dry deposition. Front Cover. Assessing the atmospheric deposition of mercury to Lake Michigan 1 Feb 2007 . Recent declines in atmospheric mercury deposition in the upper Midwest. .. Wet and dry deposition fluxes of mercury in Japan. Atmos. . Atmospheric mercury deposition to Lake Michigan during the Lake Michigan Mass Balance Study. .. Influence from emission sources in the Chicago/Gary urban area. Sponsored Projects Great Lakes Commission Commission des .