



Eastern US Power Plant NO_x Controls Detected by Satellite. Since late 1990's, pollution control programs in the US have focused on coal-burning power plants by utilizing improved burner technology and post-burner ammonia scrubbers. (Left) The model NO₂ columns in the Ohio River Valley where power plants dominate total NO_x emissions were as large as that in the northeastern US cities before pollution controls (using the emissions in 1999). (Middle) After the pollution controls, the model columns in the Ohio River Valley utilizing the measured power plant NO_x emissions in 2004 were substantially reduced. (Right) SCIAMACHY NO₂ measurements in 2004 saw the impact of the US power plant emission controls. Large changes in NO₂ columns occurred between late 1990's and 2004. From Kim et al. (2009).