Supplemental Material
Atmospheric mercury in the Latrobe Valley, Australia: case study June 2013

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1.0.1 Metadata of the Quality controlled Tekran Gaseous Elemental Mercury Observational Dataset

The text files provide the Tekran® 2537 data (quality controlled - without calibration lines) used in the analysis presented in the main paper, as well as the raw data (daily with full calibration details) files.

In-situ observations of gaseous elemental mercury (GEM) were conducted in Churchill, Victoria, Australia (38°18′44”S, 146°25′42”E) from 31 May, 1-30 June, and 1-4 July 2013.

The text files contain 13 columns: the metadata descriptions for these data, their formats and their units and their associated headers are provided in Table S1

1.0.2 WRF-Chem Model Output

The WRF-Chem model output will be made available upon request to the authors.

Table S1. Tekran® Data File Format. For more details please refer to the Tekran® user manual. (Tekran, 2006a, b)

Name	Description	Format
Date_UTC	The timestamp: date in UTC	YY-MM-DD
Time_UTC	The timestamp: time in UTC	HH:MM:SS
Typ	The Cycle Type of observation	CLN = Clean
		CONT = Continuous ambient air analysis cycle
		ZERO = Zero air blank cycle
		SPAN = Calibration gas analysis cycle
C	The Gold (Au) trap identity	A or B or both
Stat	Status	NP
		OK = Normal
Stat2	Status	Integer
AdTim	Sample Duration	Integer
Vol	Sample Volume in litres	Float - 5 litres (5 minutes @ 1 litre per minute)
Bl	Baseline Voltage	Float - between 0.100 and 0.250V
BlDev	Baseline standard deviation	Float < 0.100V
MaxV	Maximum voltage	Float
Area	Hg TD peak area	Float
ng/m3	Gaseous Elemental Mercury Observation	Float (Units = ng/m^3)

References

Tekran: Model 2537A Ambient Mercury Vapour Analyzer User Manual, Rev. 3.01, Tech. rep., Toronto, Canada, 2006a.

Tekran: Model 2537B Ambient Mercury Vapour Analyzer User Manual, Rev. 3.10, Tech. rep., Toronto, Canada, 2006b.