

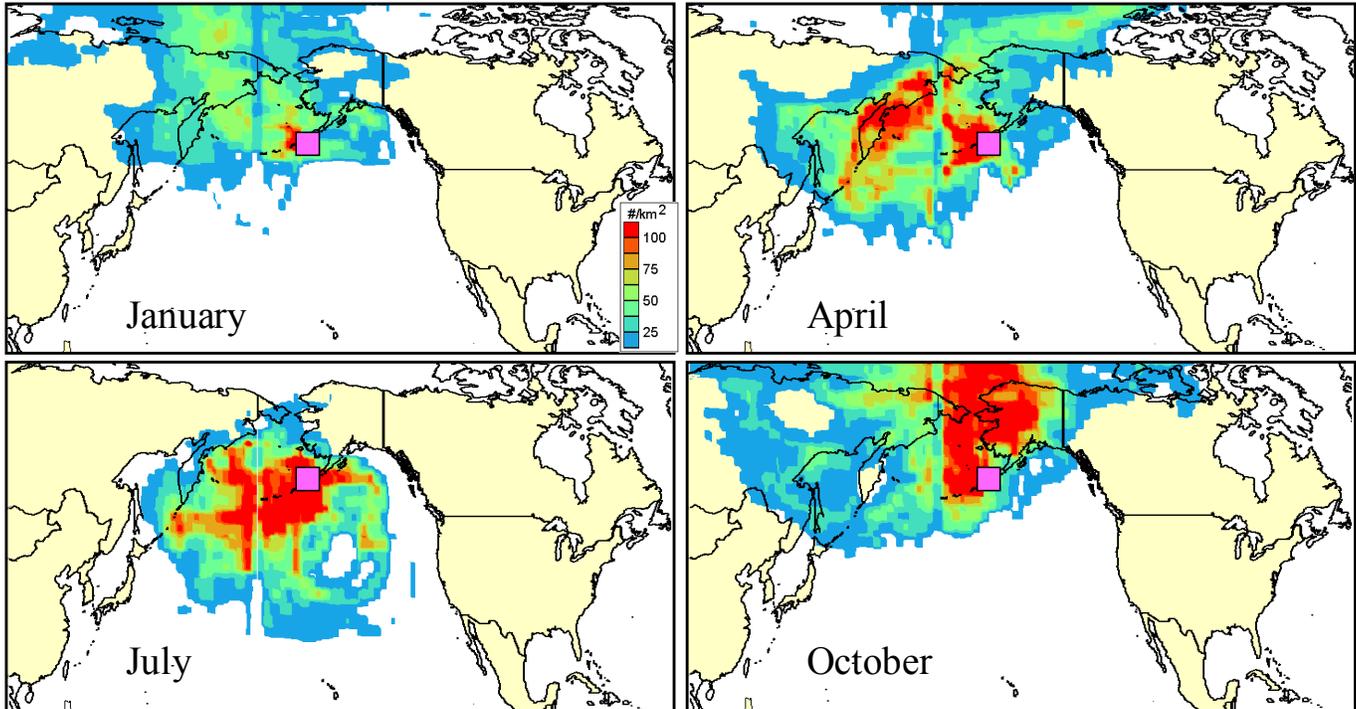
## Appendix A Transport Pathways

Figures showing transport pathways traversed by air masses en route to 11 sites within the United States are provided in this Appendix. The figures and the calculations on which these figures are based were produced by the Center for Air Pollution Impact and Trends Analysis (CAPITA) at Washington University in St. Louis, MO, and can be found at <http://capita.wustl.edu>.

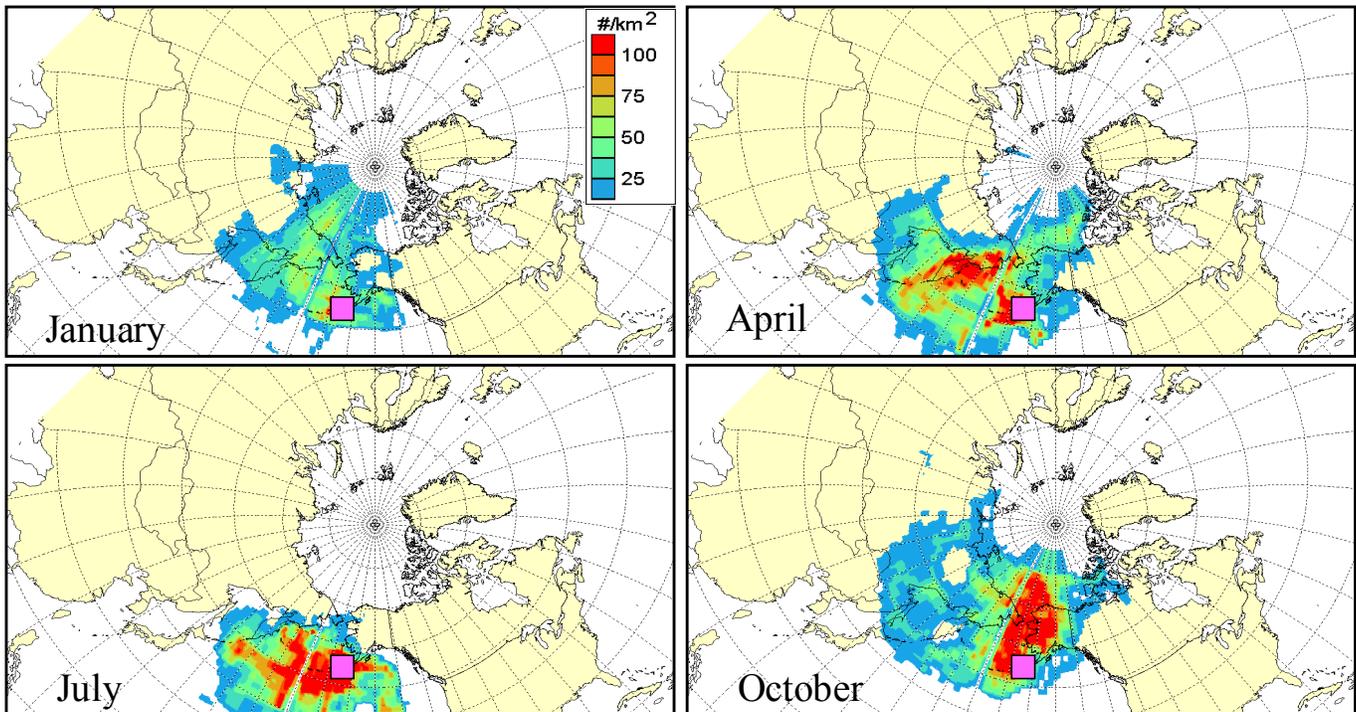
The figures are based on the calculation of several thousand trajectories calculated backwards for 10 days at 2-hour intervals from each of the receptor sites for the year 1999. The different color shad-

ing in the figures refers to the probability that trajectories passed over a given area before arriving at the receptor site. The boundaries of each shaded region represent lines of constant probability. The areas shaded in red have the highest probability of being traversed by trajectories, whereas those shaded in light blue have lower probability. To obtain a truly representative picture of the average transport pathways, in the same way that climatological statistics are obtained, these calculations would need to be repeated for several years. Further details regarding the calculations can be found in Husar and Schichtel (2001).

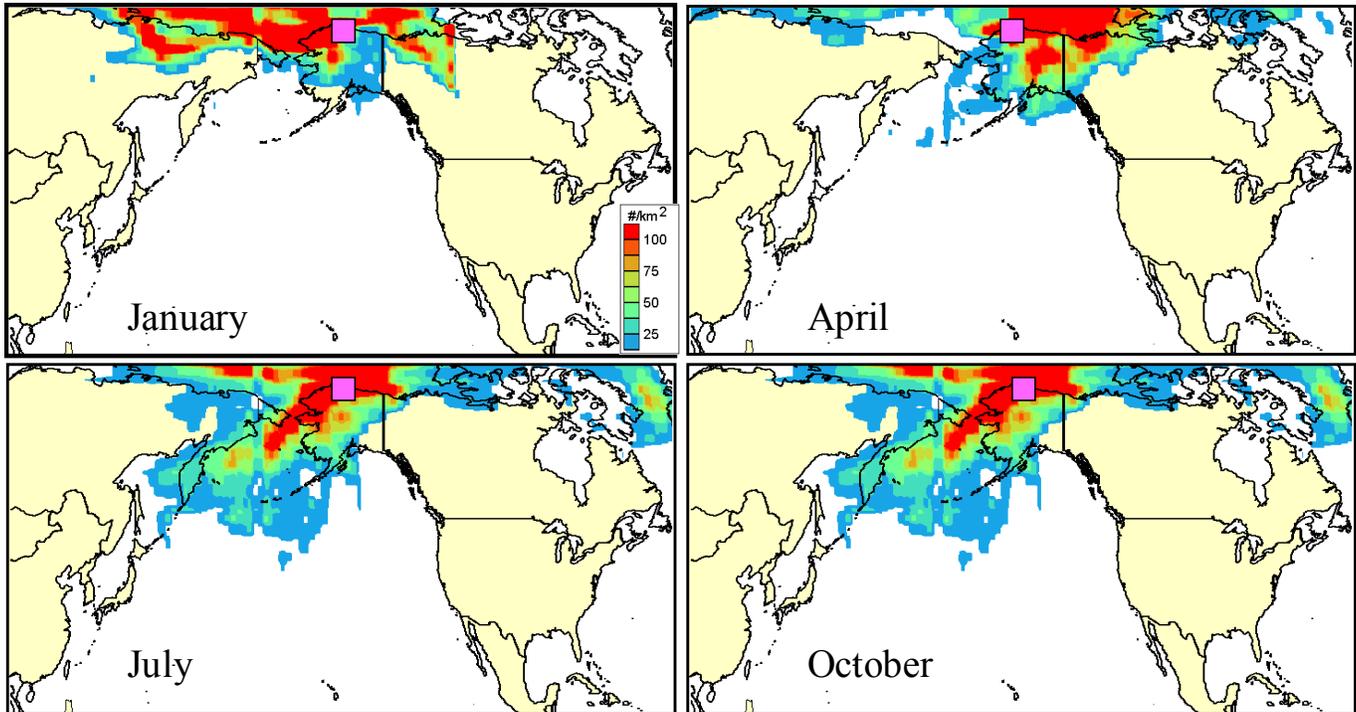
### 1. Aleutian Islands, AK



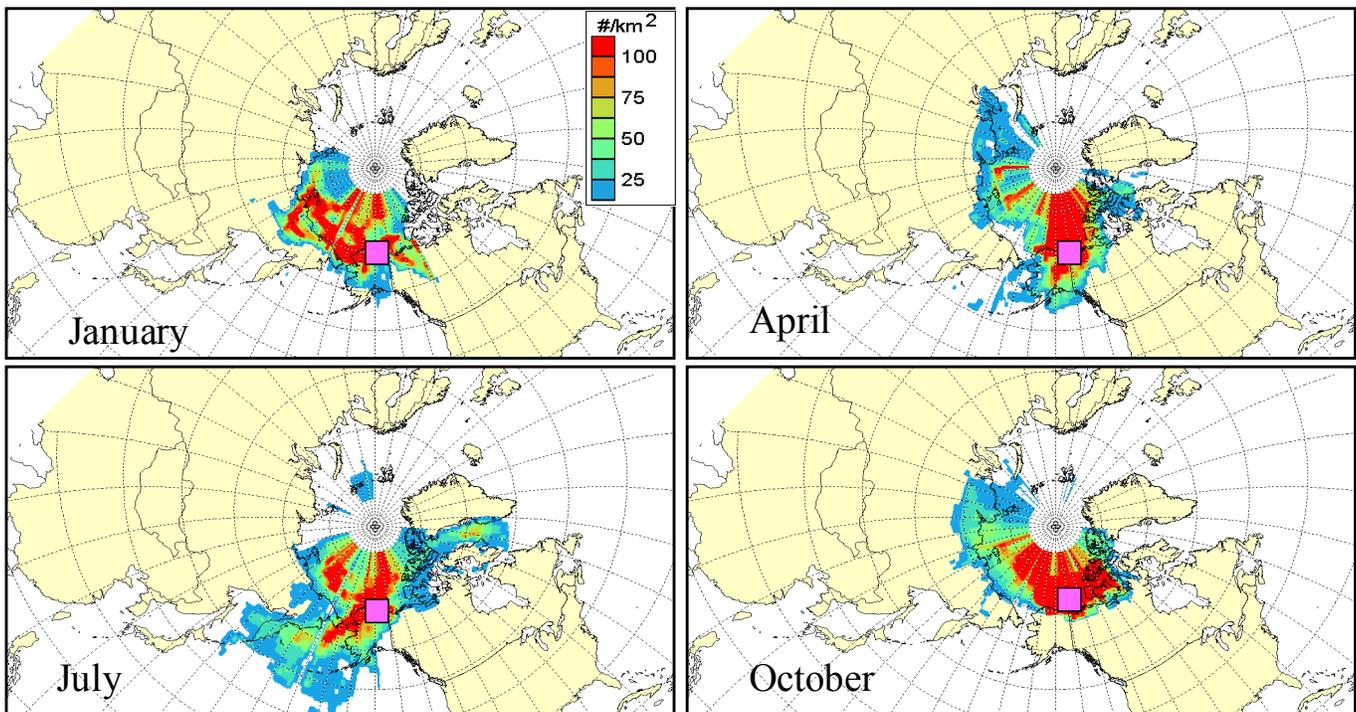
### 1. Aleutian Islands, AK



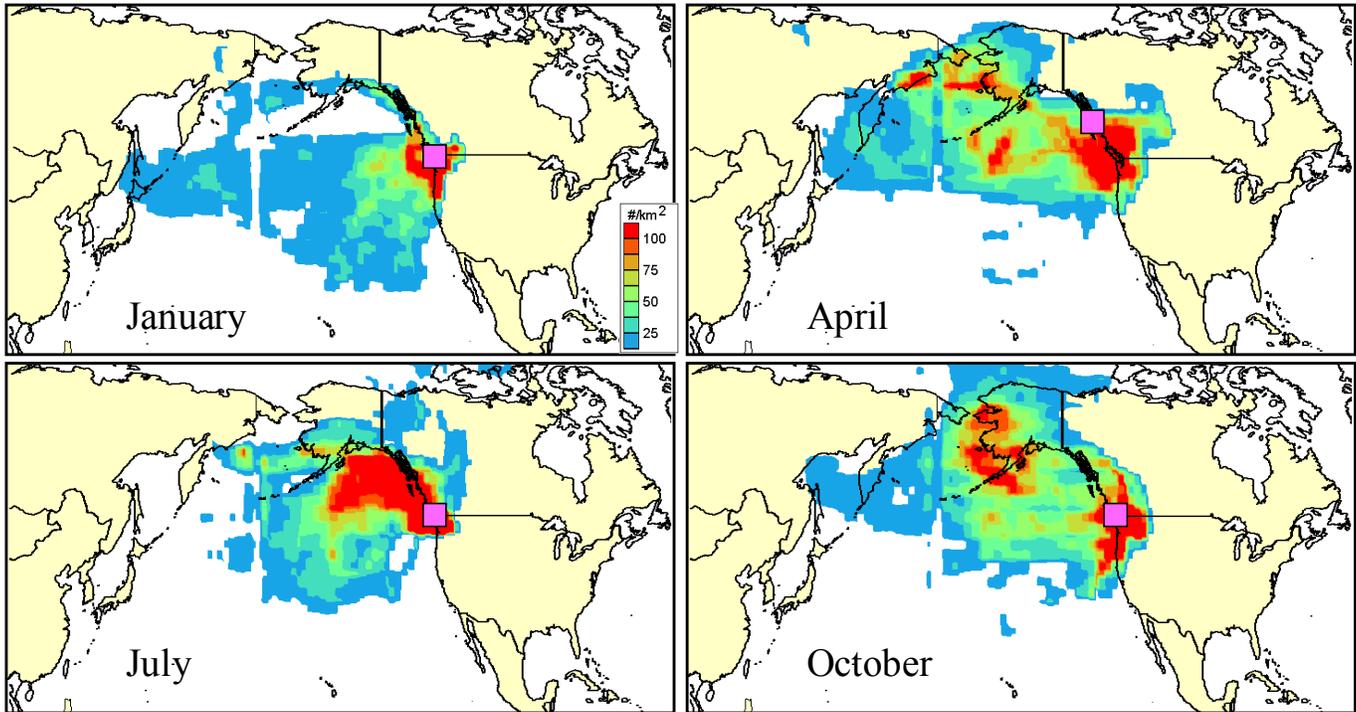
## 2. Point Barrow, AK



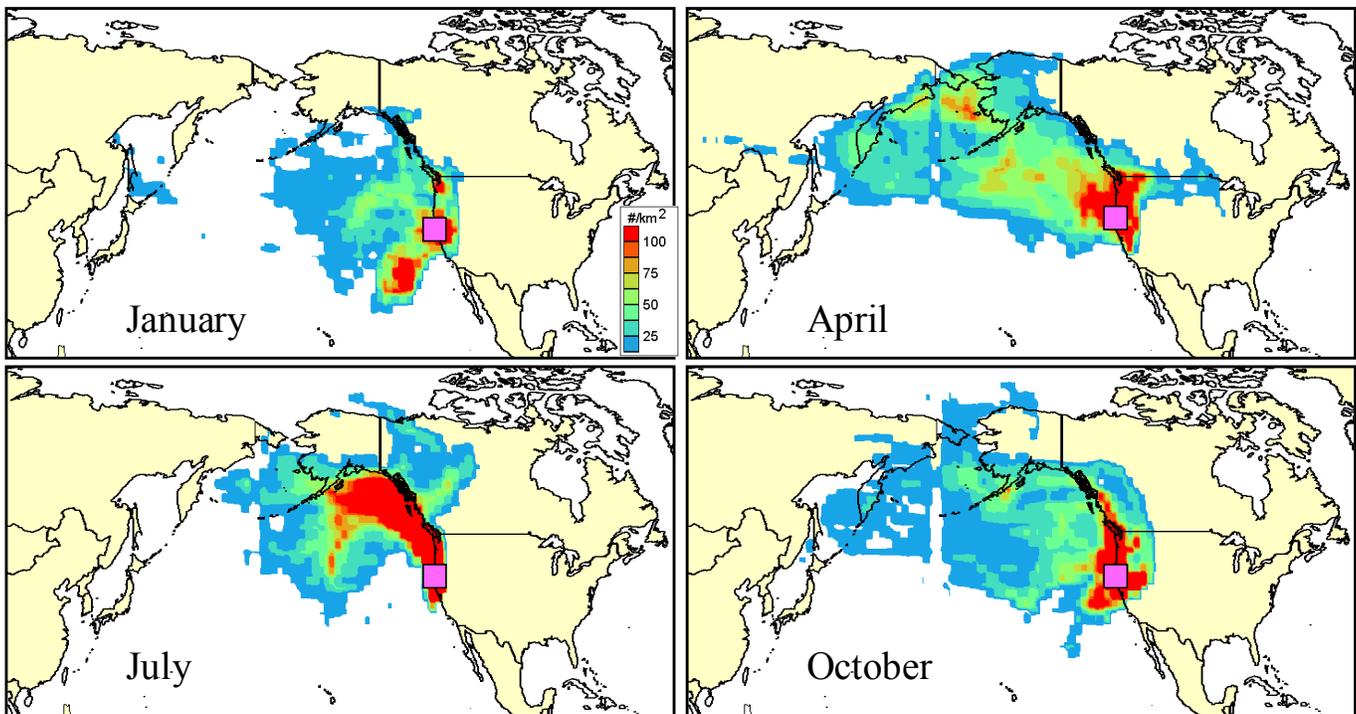
## 2. Point Barrow, AK



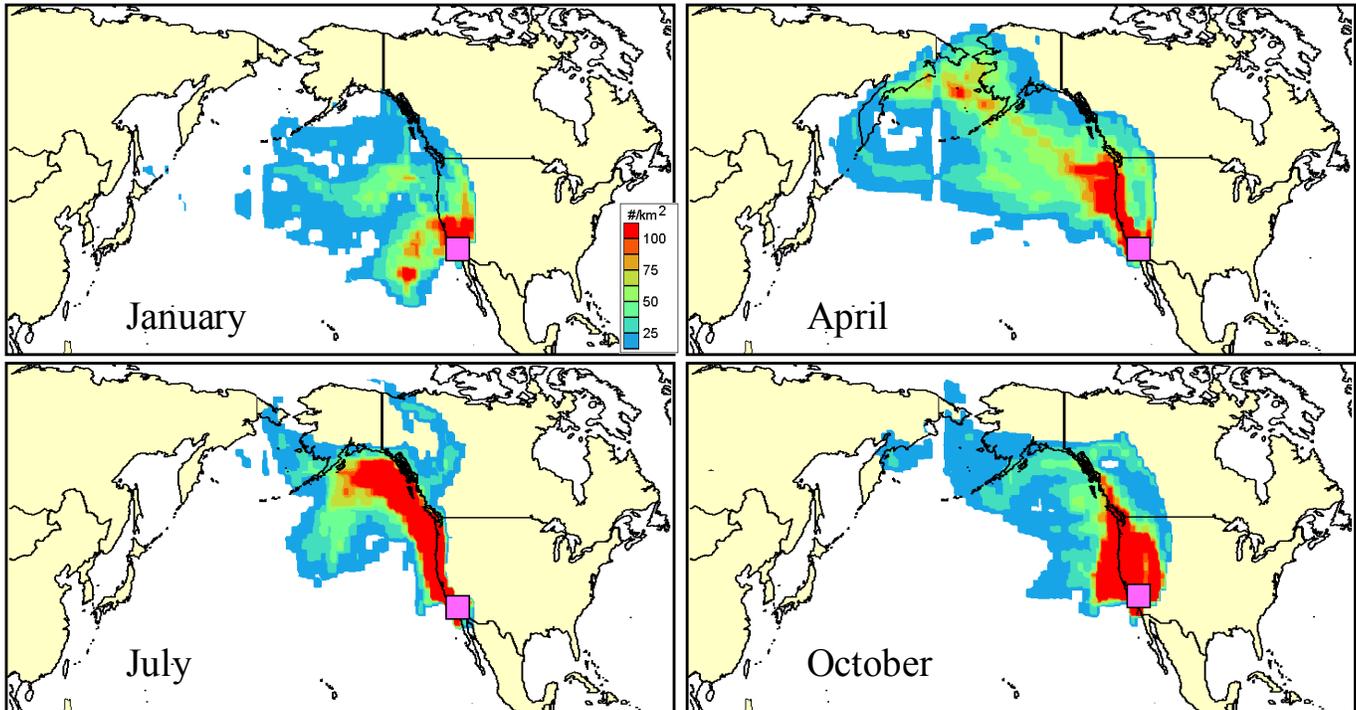
### 5. Seattle, WA



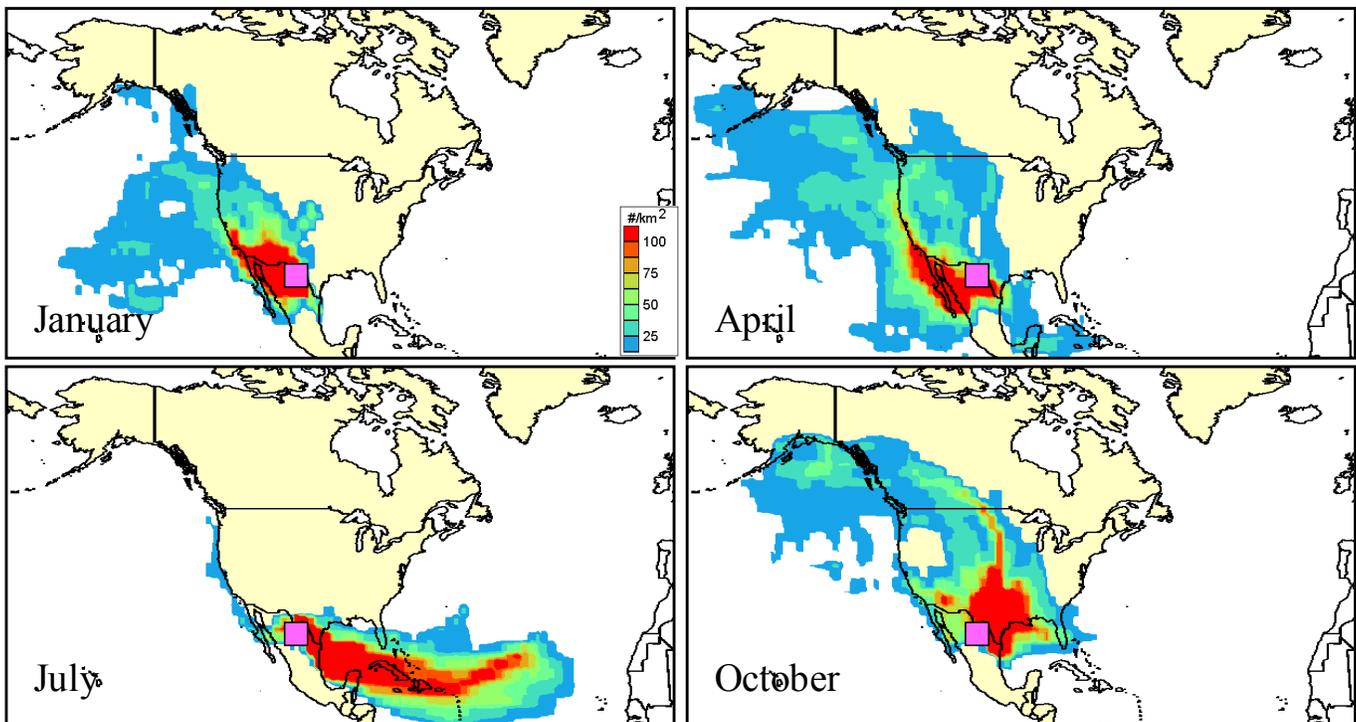
### 6. San Francisco, CA



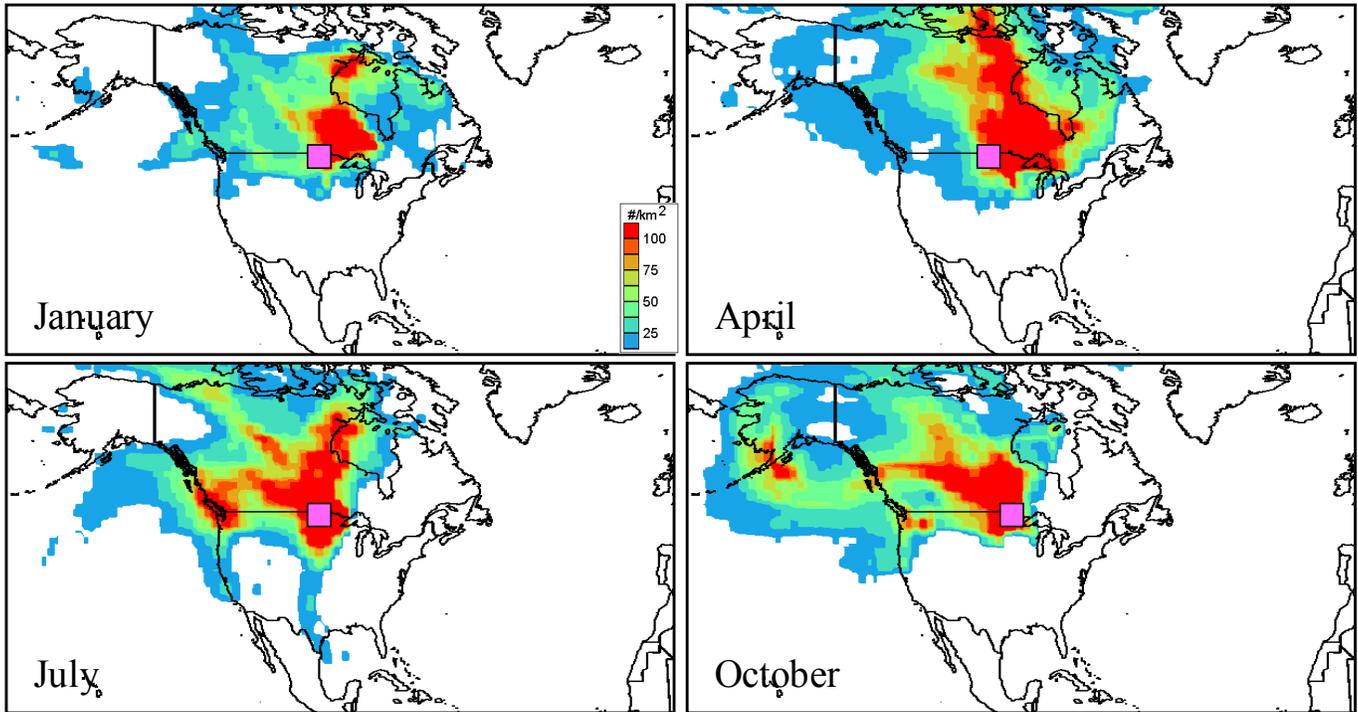
### 9. San Diego, CA



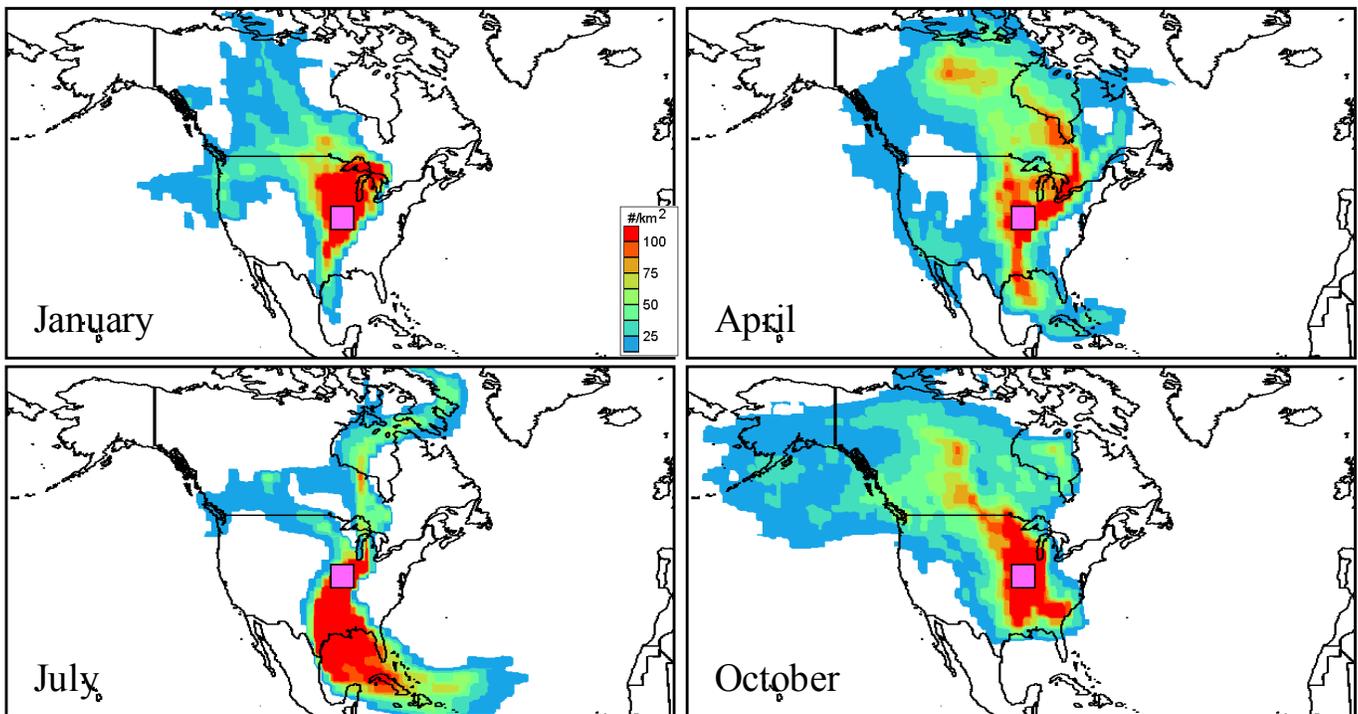
### 10. Big Bend, TX



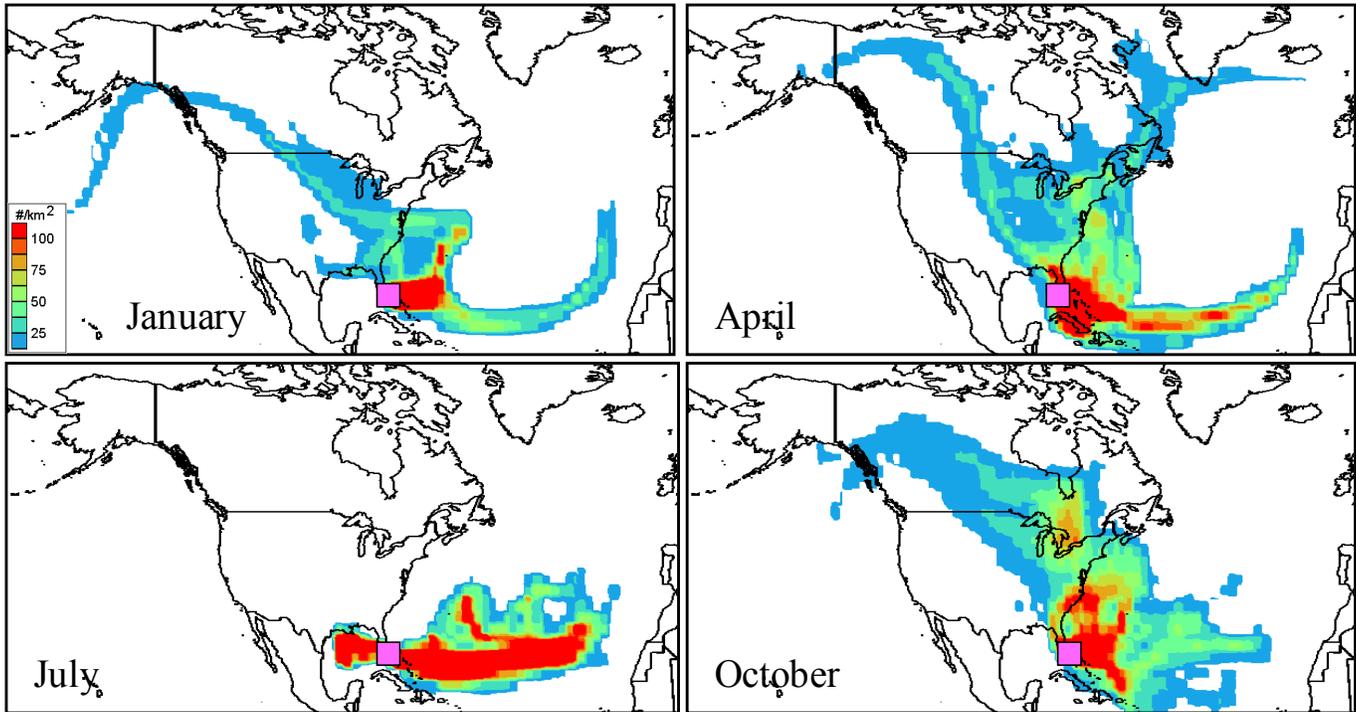
### 11. N. Minnesota, MN



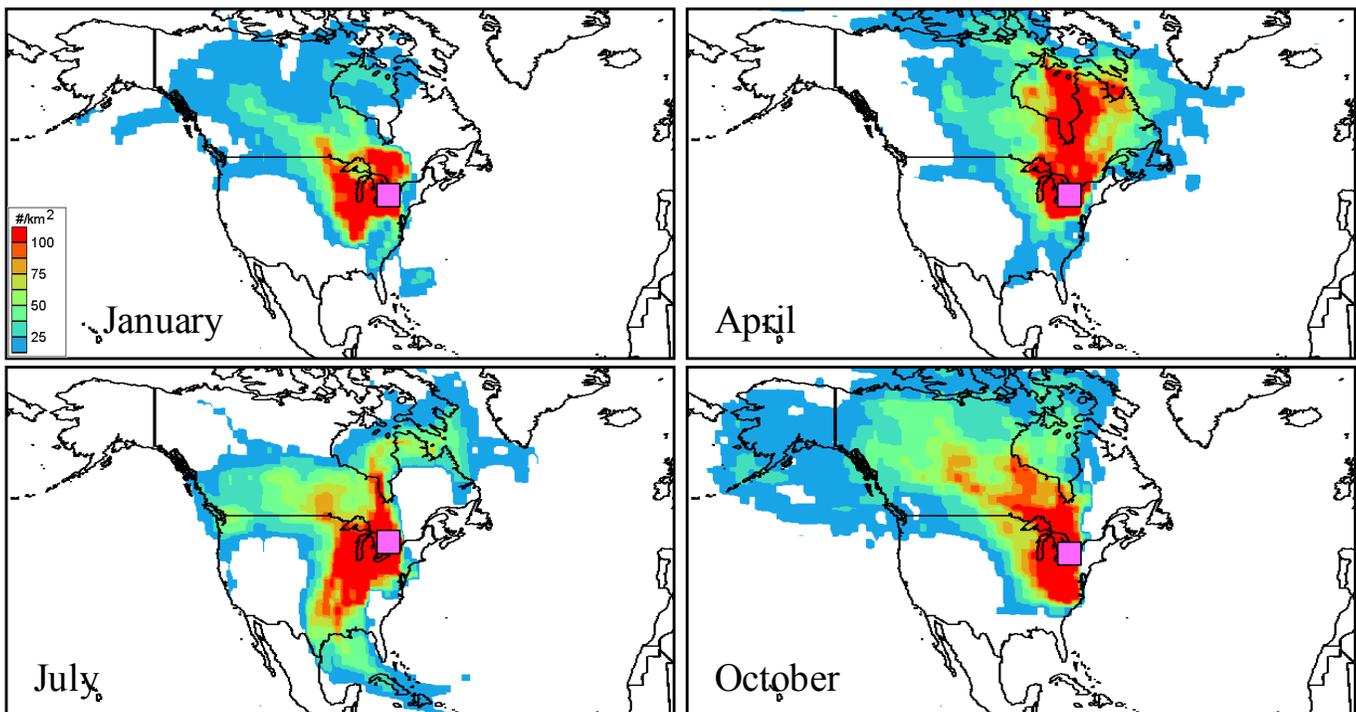
### 12. St. Louis, MO



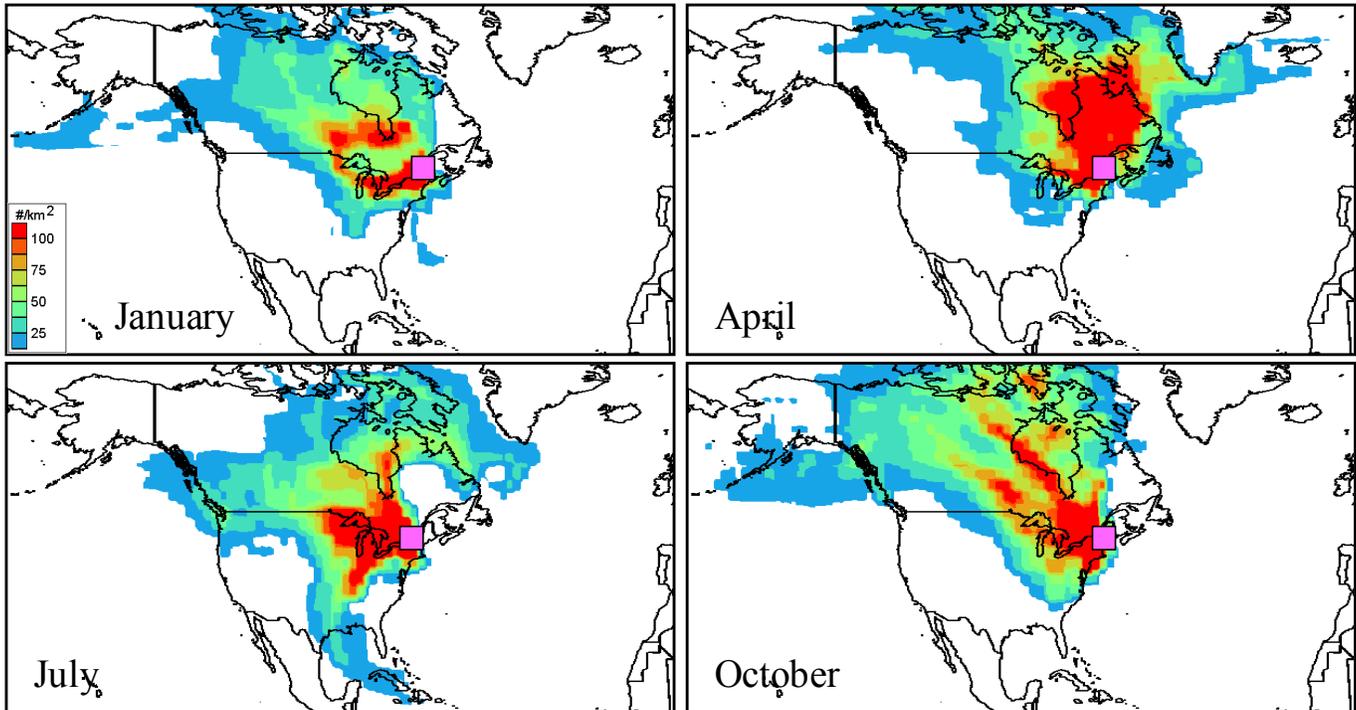
### 13. Everglades, FL



### 14. Rochester, NY



## 15. Burlington, VT



### Reference

Husar RBH, Schichtel B. 2001. Ozone and PM air quality analyses in support of public needs: Visualization of transboundary air pollutant transport to the US.

Final report of Cooperative research agreement CX825834. Accessible through <http://capita.wustl.edu/capita/capitareports/POPs/TransportclimatologyJP.ppt>.