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Figure 1 consists of two panels. The top panel is a horizontal bar chart showing typical $PM_{2.5}$ concentrations ($\mu g m^{-3}$) for various locations, ordered from cleanest (NE US) to most polluted (India). The bottom panel is a 5x10 grid of pie charts showing the chemical composition of $PM_{2.5}$ for the same locations, categorized by season (Annual, Winter, Spring, Summer, Fall). The legend identifies the components: Sulfate (red), Nitrate (orange), Ammonium (yellow), OA (green), BC (blue), Dust (purple), and Sea salt (pink).

Typical $PM_{2.5}$ concentration ($\mu g m^{-3}$)

Location	Typical $PM_{2.5}$ concentration ($\mu g m^{-3}$)
NE US	~5
NE Canada	~10
SE US	~15
SW US	~18
Italy	~20
Israel	~22
Taiwan	~25
Chile	~28
South Africa	~45
Ethiopia	~65
China	~75
India	~115

Source: EPA and WHO

Chemical Composition of $PM_{2.5}$ by Location and Season

Season	Nonwestern United States	Great Lakes Canada/US	Southwestern United States	Southwestern United States	Central Italy	Israel	Taiwan	Central Chile	Gauteng South Africa	Central Ethiopia	Northern China	Northern India
Annual	32%	15%	10%	3%	13%	17%	10%	9%	22%	24%	25%	10%
Winter	42%	10%	5%	3%	10%	10%	12%	17%	41%	21%	16%	11%
Spring	39%	12%	7%	10%	14%	23%	11%	14%	36%	31%	18%	12%
Summer	31%	10%	14%	10%	14%	15%	21%	17%	34%	25%	10%	14%
Fall	30%	10%	17%	13%	10%	15%	10%	10%	32%	19%	13%	15%

Legend: Sulfate (red), Nitrate (orange), Ammonium (yellow), OA (green), BC (blue), Dust (purple), Sea salt (pink).

A world map with 12 numbered locations marked by blue circles. The locations are: 1. Northeast US, 2. Great Lakes Canada/US, 3. Southeast US, 4. Southwest US, 5. Central Italy, 6. Israel, 7. Taiwan, 8. Central Chile, 9. Gauteng South Africa, 10. Central Ethiopia, 11. Northern China, and 12. Northern India.

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