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| **INDUSTRIAL SMOG** |
| **Primary Pollutant(s):**  SOx |
| **Secondary Pollutant(s):**  SO3, H2SO4, PM |
| **Anthropogenic Source:**  Fossil Fuel Burning  (Coal-burning Power Plants) |
| Problem Locations Include:  Beijing, China |
| **Effect(s):**  Exacerbates Respiratory Illness, Loss of aesthetic appeal |

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| **PHOTOCHEMICAL SMOG** |
| **Primary Pollutant(s):**  NOx & VOCs |
| **Secondary Pollutant:**  Ozone & PANs |
| **Anthropogenic Source:**  Fossil fuel burning internal combustion engines  (vehicle exhaust) |
| Problem Locations Include:  Los Angeles, California |
| **Effect(s):**  Exacerbates Respiratory Illness, Eye Irritation, Reduced photosynthesis, Causes structural damage |

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| **ACID DEPOSITION** |
| **Primary Pollutant(s):**  SOx & NOx |
| **Secondary Pollutant(s):**  H2SO4 & HNO3 |
| **Anthropogenic Source:**  Coal burning & Vehicles |
| Problem Locations Include:  Eastern USA |
| **Effect(s):**  Nutrients and Heavy Metals leached from soils, Damages plants leaves and roots, Affects aquatic ecosystems and organisms |

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| **OZONE DEPLETION** |
| **Primary Pollutant(s):**  CFCs, Halons |
| **Secondary Pollutant(s):**  N/A |
| **Anthropogenic Source:** Refrigerants, Aerosols |
| Problem Locations Include: Stratosphere over Antarctica |
| **Effect(s):**  Increased sun burn and skin cancer, reduced photosynthesis, increased climate change |

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| **CLIMATE CHANGE** |
| **Primary Pollutant(s):**  CO2, CH4, H2O, N2O,  CFCs, Halons |
| **Secondary Pollutant(s):**  N/A |
| **Anthropogenic Source**: Combustion, Deforestation, Agriculture |
| Problem Locations Include: Everywhere!  Arctic regions & Low-lying areas most dramatically affected |
| **Effect(s):**  Melting Ice & Glaciers, Sea Level Rise, Loss of Biodiversity, Changing Ocean Currents |