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## **Abstract:**

The Kilauea volcano has been erupting continuously since 1983. The two vents, Pu`u`O`o and Halema`uma`u, together produce about 1,000 tons of SO2 every day. When SO2 from the volcano is being release into the atmosphere it reacts with sunlight, dust and moisture to produce sulfuric aerosols (PM2.5) or what we know as vog. During light and variable or southerly winds the vog can travel from the Big Island to Oahu, home to about 1 million people. The small particles from vog can penetrate deep into the human lung and cause asthma-like symptoms along with headaches, eye-