

Atmospheric Aerosol Properties and Climate Impacts

Synthesis and Assessment Product 2.3

**Report by the U.S. Climate Change Science Program
And the Subcommittee on Global Change Research**

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Atmospheric aerosols are suspensions of solid and or liquid particles in air Aerosols are ubiquitous in air and are often observable as dust smoke and haze Both natural and human processes contribute to aerosol concentrations On a global basis aerosol mass derives predominantly from natural sources mainly sea salt and dust However anthropogenic manmade aerosols arising primarily from a variety of combustion sources can dominate in and downwind of highly populated and industrialized regions and in areas of intense agricultural burning This report critically reviews current knowledge about global distributions and properties of atmospheric aerosols as they relate to aerosol impacts on climate It assesses possible next steps aimed at substantially reducing uncertainties in aerosol radiative forcing estimates Current measurement techniques and modeling approaches are summarized providing context As a part of the Synthesis and Assessment Product in the Climate Change Science Program this assessment builds upon recent related assessments including the Fourth Assessment Report of the Intergovernmental Panel on Climate Change IPCC AR4 2007 and other Climate Change Science Program reports The objectives of this report are 1 to promote a consensus about the knowledge base for climate change decision support and 2 to provide a synthesis and integration of the current knowledge of the climate relevant impacts of anthropogenic aerosols for policy makers policy analysts and general public both within and outside the U S government and worldwide

Atmospheric Aerosol Properties and Climate Impacts Mian Chin, 2009-05 This Synthesis and Assessment Product SAP critically reviews current knowledge about global distributions and properties of atmospheric aerosols as they relate to aerosol impacts on climate It assesses possible next steps aimed at substantially reducing uncertainties in aerosol radiative forcing estimates Current measurement techniques and modeling approaches are summarized providing context The objectives of this report are 1 to promote a consensus about the knowledge base for climate change decision support and 2 to provide a synthesis and integration of the current knowledge of the climate relevant impacts of anthropogenic aerosols

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