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Student Support for ONR Contract #N000149410105

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LONG-TERM GOALS

This grant provides support for graduate and undergraduate students to participate in research activities on the project "Kinetics, Mechanism And Product Yields In The Atmospheric Oxidation Of Dimethylsulfide " . A description of the goals of this project are described in a report on project #N000149510242.

OBJECTIVES

A description of the objectives of this project are described in a report on project #N000149510242.

APPROACH

A description of the experimental approaches used in this project are described in a report on project #N000149510242.

WORK COMPLETED

This grant initially supported Athanasios Nenes as a first year graduate student. First year students at RSMAS focus primarily on course work. During this period Mr. Nenes decided to pursue modelling rather than experimental work. He completed a masters degree under the supervision of Dr C. Pillinis and has left RSMAS. His thesis is entitled "Thermodynamic Modeling of Atmospheric Aerosols". A paper describing his work, "ISORROPIA: A New Thermodynamic Equilibrium Model for Multiphase Multi-Component Inorganic Aerosols" has been published and acknowledges ASSERT support. A new graduate student Ms. Margaret Williams has now joined us and has been supported by the grant for her first year. Several undergraduate students have also been supported on the grant.

RESULTS

A description of the results obtained are described in a report on project #N000149510242.

IMPACT

A description of the impact of this project is described in a report on project #N000149510242.

TRANSITIONS

The potential implications of this work are described in a report on project #N000149510242.

RELATED PROJECTS

"Kinetics, Mechanism And Product Yields In The Atmospheric Oxidation Of Dimethylsulfide " , originally funded as #N000149410105 and continued as #N000149510242.

PUBLICATIONS

A. Nenes, Thermodynamic Modeling of Atmospheric Aerosols, M.Sc. Thesis, University of Miami, 1997

A. Nenes, S. Pandis and C. Pillinis, ISORROPIA: A New Thermodynamic Equilibrium Model for Multiphase Multi-Component Inorganic Aerosols, Aquatic Geochemistry, **4**, 123-152,