

# Technical Announcement

U. S. Department of the Interior  
Bureau of Ocean Energy Management  
Gulf of Mexico OCS Region

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## *Satellite Data Assimilation into Meteorological/Air Quality Models*

### **OCS Study BOEMRE 2010-050**

The Bureau of Ocean Energy Management (BOEM), Gulf of Mexico OCS Region, announces the availability of a new study report, *Satellite Data Assimilation into Meteorological/Air Quality Models*.

The study is directed at improving air quality models by employing satellite data to better specify surface parameters: insolation, soil moisture, and surface heat capacity that control the development of the land boundary layer. The tools and techniques for using the satellite data are tested on the type of boundary layer models used in air quality modeling. In particular, the updated techniques for using satellite data for determining soil moisture availability, surface moisture, insolation, and photolysis fields are examined with models used in the recent national level air quality studies undertaken along the Texas Gulf Coast.

This report is available only in compact disc format from the Bureau of Ocean Energy Management, Gulf of Mexico OCS Region, at a charge of \$15.00, by referencing OCS Study BOEMRE 2010-050. The report may be downloaded from the BOEM website through the [Environmental Studies Program Information System \(ESPIS\)](#). You will be able to obtain this report also from the National Technical Information Service in the near future. Here are the addresses. You may also inspect copies at selected Federal Depository Libraries.

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