

# Technical Announcement

MMS

U. S. Department of the Interior  
Minerals Management Service  
Gulf of Mexico OCS Region

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## ***Five-Year Meteorological Datasets for CALMET/CALPUFF and OCD5 Modeling of the Gulf of Mexico Region***

### **[OCS Study MMS 2008-029](#)**

The Minerals Management Service (MMS), Gulf of Mexico OCS Region, announces the availability of a new study report, *Five-Year Meteorological Datasets for CALMET/CALPUFF and OCD5 Modeling of the Gulf of Mexico Region*.

This study describes an up-to-date, five-year meteorological dataset for the Gulf of Mexico region that can be used to run air quality models for a variety of environmental assessments. The dataset consists of onshore surface and upper-air data, offshore buoy data, and output from prognostic meteorological models for the time period of 2000-2004. Geographically, the dataset covers the Gulf of Mexico region, including both onshore and offshore areas.

The five-year dataset consists of two subsets of files. One set of files is formatted for use with the CALMET/CALPUFF modeling system. The CALMET/CALPUFF input data files were constructed using a combination of onshore surface and upper-air data from the National Weather Service (NWS), offshore buoy data from the National Data Buoy Center (NDBC), and the model output from the Rapid Update Cycle model. Ozone data were also compiled as part of this dataset and these data were obtained from the U.S. Environmental Protection Agency Air Quality System. The second set of files is formatted for use with the updated Offshore Coastal Dispersion (OCD5) model. The OCD5 files were prepared using onshore surface and upper-air data from the NWS, mixing height estimates obtained from the National Climatic Data Center (NCDC), and offshore buoy data from the NDBC.

The subsets of the dataset are intended for use by MMS and operators to assess the potential impacts of future offshore oil and gas development in the Gulf of Mexico region, using either the CALMET/CALPUFF or OCD5 modeling systems, and are available upon request for use in air quality modeling assessments.

This report is available only in compact disc format from the Minerals Management Service, Gulf of Mexico OCS Region, at a charge of \$15.00, by referencing OCS Study MMS 2008-029. The report may be downloaded from the MMS 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.

Minerals Management Service  
Gulf of Mexico OCS Region  
Public Information Office (MS 5034)  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123-2394  
Telephone requests may be placed at  
(504) 736-2519, 1-800-200-GULF, or  
FAX: (504) 736-2620

U.S. Department of Commerce  
National Technical Information Service  
5285 Port Royal Road  
Springfield, Virginia 22161  
(703) 487-4650 or FAX: (703) 321-8547  
Rush Orders: 1-800-336-4700

**MMS Main Website: [www.mms.gov](http://www.mms.gov)**  
**Gulf of Mexico Website: [www.gomr.mms.gov](http://www.gomr.mms.gov)**