

(Instructions and Distribution on Reverse)

1. CONTRACTOR: <b>SSAI</b>	2. CONTRACT NO.: <b>NNG12HP06C</b>	3. TASK/REVISION NO.: <b>CY4 0 06</b>
4. JOB ORDER NO./PROJECT:	5. FLIGHT HARDWARE/SOFTWARE; CRITICAL GSA (IF, YES, OBTAIN BLOCK 16 CONCURRENCE): YES <input checked="" type="checkbox"/> NO	6. DESIGNATED FLIGHT ASSURANCE MGR.:
7. DESCRIPTION OF WORK TO BE PERFORMED (OBJECTIVES OR RESULTS DESIRED):  <b>Aerosol Modeling and Data Assimilation</b>		
8. TASK DOCUMENTATION REQUIREMENTS/DELIVERABLE ITEMS:  <b>See Attached</b>		
9. PERFORMANCE/MILESTONE SCHEDULE:  <b>February 1, 2015 – January 31, 2016</b>		
10. QUALITY ASSURANCE REQUIREMENTS:		
11. TRAVEL, MATERIALS, ETC., KNOWN TO BE REQUIRED:		
12. OTHER (FUNDING, NTE, HOURS, ETC.):  Estimated Cost Fixed Fee Estimated Total Cost-Plus-Fixed Fee                      \$155,600		
13. TASK ORIGINATOR/MONITOR/CODE/PHONE:  Arlindo Dasilva		18. THIS TASK ORDER IS ISSUED PURSUANT TO THE TERMS OF THE CONTRACT.   CONTRACTING OFFICER'S SIGNATURE/ DATE
14. BRANCH APPROVAL:	15. DIVISION CONCURRENCE:	
16. CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE:  Stephen Cohn		TYPED OR PRINTED NAME
17. CONTRACTOR SIGNATURE:		

Science Systems and Applications, Inc.  
NNG12HP06C  
Task Order Statement of Work

Task Order Number: CY4\_06\_Mod0

Task Order Title: Aerosol Modeling and Data Assimilation

1.0 Task Monitor (TM):

Name: Arlindo DaSilva  
Organization: GMAO:GMAO  
Email Address: arlindo.m.dasilva@nasa.gov

2.0 Description of Work to be Performed

Modification 1 of this task replaces the former Subtask A with a new Subtask A. This Subtask is genuinely new, i.e., it does not currently exist as part of any other task.

Main changes from Mod 1 CY 2 to Mod 0 CY 3:  
Removed spurious Quality Assurance requirements.

Mod 1 of CY3 task deletes Subtask A: Aerosol and Chemical Emission Modeling, along with the authorized travel to the AGU Fall meeting.

No changes from CY3 to CY4. Above text is retained for the sake of change tracking.

**Subtask B: Aerosol Data Assimilation and Observing System Simulation**

The contractor shall contribute to the implementation of the GMAO Global Aerosol Assimilation System (GAAS), with emphasis on space-based aerosol measurements. The contractor shall provide support on the acquisition and reformatting of input data sets, running of experiments and analysis of results, and contribute to the development of the aerosol modeling capabilities and emission datasets. The contractor shall also contribute to observing system simulation studies that rely on aerosol-related parameters or that contribute to the support of aerosol-related missions as directed by the GMAO civil service staff.

**Deliverables:** Datasets for assimilation and system validation. All code development and release to be performed in conformance with GMAO configuration management policy, with the maintenance of appropriate Change Logs. Testing and validation experiments to be documented on the [geos5.org](http://geos5.org) Wiki page. For this performance period emphasis will be placed on developing a monitoring system for GMAO's aerosol assimilation system, along with monitoring and validation of the MERRA-2 aerosol products.

3.0 Special Requirements

None

#### 4.0 Performance/Milestone Schedule

The GMAO Contract Year 4 POP is February 01, 2015 - January 31, 2016

#### 5.0 Deliverables/Reporting Requirements

##### **TASK DOCUMENTATION REQUIREMENTS/DELIVERABLE ITEMS**

All subtasks will provide software/algorithm documents and user guides in conformance with GMAO guidelines as appropriate. Additional information is given in the description of work to be performed

#### 6.0 Other Information Needed for Performance of Task

##### **Travel Authorized:**

Local travel for training purposes, not to exceed 5 person-days, will be authorized at the request of the TM or the GMAO Chief.

#### 7.0 Data Rights

N/A

#### 8.0 Safety

Staff on this task will comply with federal, state, local, and center safety regulations. This will be accomplished through management emphasis, technical training, and personal responsibility. Staff will participate in safety orientation and training in accordance with the contract Safety and Health Plan, and work within the requirements of that plan.

#### 9.0 Risk

Contractor shall provide ongoing risk assessment and mitigation in performance of the Task Order. Priorities shall be re-evaluated as appropriate with the TM. Cost and schedule performance shall be assessed on a regular basis (no less frequently than monthly) and significant variations discussed and acted on in consultation with the TM and COTR.

#### 10.0 Proposed Cost and Fixed Fee

In accordance with Paragraph B.5, of the contract, propose the Cost and Fixed Fee amount.