

GODDARD SPACE FLIGHT CENTER.		TASK ORDER (Instructions and Distribution on Reverse)		PAGE 1 OF 1
1. CONTRACTOR: <b>SSAI</b>	2. CONTRACT NO.: <b>NNG12HP08C</b>	3. TASK/REVISION NO.: Task Order #021		
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):  OMI Core Team Support.				
8. TASK DOCUMENTATION REQUIREMENTS/DELIVERABLE ITEMS:  (See Attached Task Order)				
9. PERFORMANCE/MILESTONE SCHEDULE:  May 1, 2015 – April 30, 2016				
10. QUALITY ASSURANCE REQUIREMENTS:  N/A				
11. TRAVEL, MATERIALS, ETC., KNOWN TO BE REQUIRED:  (See Attached Task Order)				
12. OTHER (FUNDING, NTE, HOURS, ETC.):  Total Cost: Fee: Total Price:                    \$716,427				
13. TASK ORIGINATOR/MONITOR/CODE/PHONE:  Joanna Joiner/614.0/4-6247		18. THIS TASK ORDER IS ISSUED PURSUANT TO THE TERMS OF THE CONTRACT.		
14. BRANCH APPROVAL:	15. DIVISION CONCURRENCE:	 CONTRACTING OFFICER'S SIGNATURE/ DATE      Ayana A. Briscoe		
16. CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE:  Joel Susskind				
17. CONTRACTOR SIGNATURE:				

Science Systems and Applications, Inc.  
NNG12HP08C  
Task Order Statement of Work

Task Order Number: 021\_Rev1  
Task Order Title: OMI Core Team Support

1.0 Task Monitor (TM):

Name: Joanna Joiner  
Organization: 614: Atmospheric Chemistry and Dynamics Laboratory  
Email Address: joanna.joiner@nasa.gov

2.0 Description of Work to be Performed

The contractor shall provide support to the Ozone Monitoring Instrument (OMI) Core Team. This includes:

1) Algorithm development, enhancement, maintenance, and support

- completion of total column ozone (OMTO3) version 9 including evaluation, delivery, and documentation including comparisons with other satellite and ground-based data sets and monitoring of long-term trends
- maintenance of ozone-based OMI row anomaly flag algorithm
- support for LIDORT radiative transfer codes including testing and configuration management
- general support for spectral fitting algorithms with feedback to sensor calibration and characterization (specifically for NO<sub>2</sub> and O<sub>2</sub>-O<sub>2</sub> algorithms)
- Testing of spectral fitting algorithms including implementation of new applications such as cloud slicing
- Assistance of other science team members in operational implementation of new algorithms
- development, testing, and documentation of ancillary surface albedo and BRDF data sets needed for other algorithms
- development, delivery, and documentation of new A-train product: OMI-MODIS aerosol collocation data set
- implementation, delivery, evaluation, and documentation of a cloud pressure algorithm based on oxygen dimer absorption including conversion of prototype IDL codes to fortran 90 and evaluation by comparison with existing cloud products

2) Sensor calibration and characterization (OMI Radiance and Irradiance Quality Assessment including trending)

- 3) Data analysis and science data validation supporting OMI products including comparisons with atmospheric models and other ground and satellite data sets
- 4) Documentation of work (e.g., Journal Publication and Scientific Presentations including preparation and delivery of oral and poster talks)
- 5) Comprehensive mission coordination and logistics support, including support for workshops, working group meetings, and science team meetings, investigator coordination, database updates, meeting staffing, and plan meeting venues, schedules, and agendas. The contractor will assist NASA in the planning and logistics for the workshops and meetings on activities to include, where necessary: meeting room reservations and fees, meeting space and set-up style, break-out rooms, AV (projectors, monitors, overheads, easels, mice, screens), internet drops or network assistance, power (outlets, extension cords), climate and lighting tools, copiers, faxes, phones, registration table and other event needs administrative assistance. The contractor will provide minutes and action item lists, distribution and tracking, if required.
- 6) Create and maintain web sites as needed to support the OMI Core Team and related instrument science teams.

3.0 Special Requirements: None

4.0 Performance/Milestone Schedule:

The SAS Contract Year 4 POP is May 01, 2015 - April 30, 2016

Effective period of performance for Revision 1: October 15, 2015 - April 30, 2016.

5.0 Deliverables/Reporting Requirements

- Contributions to scientific publications, workshops/conferences/symposia, both oral presentations and written contributions.
- Quarterly and annual reports.
- Delivery and availability of quality-controlled datasets (OMI-TOMS version 9m O2-O2 cloud algorithm, and OMI-MODIS aerosol collocation product) and corresponding web-based material.
- Software and hardware documentation.
- Reports documenting participation in conferences, workshops, symposia, working groups and field activities.

6.0 Other Information Needed for Performance of Task

Travel may be required to attend science meetings (i.e OMI ,Aura, AGU, GEMS, etc.) This may require domestic or foreign travel, which will be determined on a case by case basis. In this contract year, we have a planned OMI science team meeting in the Netherlands in September 2015. We expect 3-5 members of the OMI science team on this contract to participate in the

meeting including making presentations. The meeting is expected to last 3-4 days. We expect 3-5 members of the team to make presentations at domestic science team meetings such as the Fall American Geophysical Union meeting in San Francisco.

7.0 Data Rights: N/A

8.0 Safety

Staff on this task shall comply with federal, state, local, and center safety regulations. This shall be accomplished through management emphasis, technical training, and personal responsibility. Staff shall 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 Risks

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 COR.

10.0 Proposed Cost and Fixed Fee

In accordance with Paragraph B.8 of the contract, propose the Cost and Fixed Fee amount.