

GODDARD SPACE FLIGHT CENTER		TASK ORDER (Instructions and Distribution on Reverse)		PAGE 1 OF 1
1. CONTRACTOR: SSAI	2. CONTRACT NO.: NNG12HP08C	3. TASK/REVISION NO.: Task Order #029		
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): GPM Precipitation Radar and Validation 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: \$291,930				
13. TASK ORIGINATOR/MONITOR/CODE/PHONE: Mathew Sewaller/587.0/4-5382		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		Ayana A. Briscoe Contracting Officer TYPED OR PRINTED NAME		
17. CONTRACTOR SIGNATURE:				

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

Task Order Number: CY4_029_Rev0

Task Order Title: GPM Precipitation Radar and Validation Support

1.0 Task Monitor (TM):

Name: Mathew Schwaller
Organization: 587: Science Data Processing Branch
Email Address: mathew.r.schwaller@nasa.gov

2.0 Description of Work to be Performed

Task 29a Precipitation Validation Network Support Activities

1. Assist in the development, maintenance and sustaining engineering of a prototype for statistical cross-validation of coincident ground and space-based radar observations. The prototype shall use TRMM Precipitation Radar (PR) attenuation-corrected reflectivity and rain rate data as well as ground-based WSR-88D radar reflectivity and rain rate data. Extend the prototype to include other U.S. and international ground radars as data become available from participating GPM partners. Extend the prototype to include additional satellite and ancillary data types as directed.
2. Assist in the evaluation of the TRMM PR recalibration following the failure and restoration of the PR in mid-2009. Also assist in the comparison of TRMM PR Versions 6 and 7 products as historical v6 cases are reanalyzed as v7 products.
3. Provide systems engineering expertise as necessary in the definition and development of the GPM GVS by assisting with the development of a GVS documents as necessary and directed by the COTR.
4. Provide systems engineering expertise as necessary in the definition and development of GPM GVS schedules, cost estimates, trade studies, testing and verification plans, or other tasks as necessary and directed by the COTR.
5. Provide analysis of existing science data systems at GSFC and elsewhere that may serve as models for the GPM GVS.

Subtask 29b GPM Validation Support

- Support preparations for GPM validation using airborne sensors such as the CoSMIR (Conical Scanning Millimeter-wave Imaging Radiometer). This support shall include software engineering, code development and test, and required travel.

3.0 Special Requirements

None

4.0 Performance/Milestone Schedule

The SAS Contract Year 4 POP is May 01, 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 and 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

With the launch of the GPM spacecraft, the validation activities performed under this task may require travel in support of field campaigns, installation and maintenance of precipitation measuring ground instruments, and related activities.

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 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 COR.

10.0 Proposed Cost and Fixed Fee

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