

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 #017		
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):  Ice Cloud & Snowfall Measurement				
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:                      \$56,833				
13. TASK ORIGINATOR/MONITOR/CODE/PHONE:  Gail Jackson/612.0/4-5720		18. THIS TASK ORDER IS ISSUED PURSUANT TO THE TERMS OF THE CONTRACT.  <i>Makara Nevils</i> 5/21/15 _____ CONTRACTING OFFICER'S SIGNATURE/ DATE  Makara Nevils _____ TYPED OR PRINTED NAME		
14. BRANCH APPROVAL:	15. DIVISION CONCURRENCE:			
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: CY4\_017\_Rev0  
Task Order Title: Ice Cloud & Snowfall Measurement

1.0 Task Monitor (TM):

Name: Gail Jackson  
Organization: 612: Mesoscale Atmospheric Processes Laboratory  
Email Address: gail.s.jackson@nasa.gov

2.0 Description of Work to be Performed

2.1. Compact Scanning Millimeter-wave Imaging Radiometer (CoSMIR)

Under this task, staff supports the CoSMIR instrument. Staff will assist in any required CoSMIR modifications, for use in GPM mission pre- and post-launch field campaigns. Staff directs Code 555 Engineers to complete the above tasks on CoSMIR. Additionally, staff ensures calibration and data dissemination after field campaign events.

2.2. Intersatellite Calibration

Staff will continue his work and participation in the GPM intersatellite calibration efforts for high frequency sounders.

2.3. Surface Emissivity Work

3.0 In addition, data sets from AMSU-B on the NOAA 15, 16, 17, and 18 satellites, as well as SSMIS from DMSP (Defense Meteorological Satellite Project) 16 are to be used in an analysis to estimate surface emissivity in the frequency range of 89-183 GHz that will help constrain the retrievals of snowfalls over land using radiometric measurements in the same frequency range. Preliminary results give reasonable surface emissivity estimation. Staff continues to enhance the retrieval technique. 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

Travel will be determined on a case by case basis in support of inter-satellite calibration meetings, conferences and field work.

#### 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.