

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 #030		
4. JOB ORDER NO./PROJECT:	5. FLIGHT HARDWARE /SOFTWARE; CRITICAL GSA (IF, YES, OBTAIN BLOCK 16 CONCURRENCE): YES X NO	6. DESIGNATED FLIGHT ASSURANCE MGR.:		
7. DESCRIPTION OF WORK TO BE PERFORMED (OBJECTIVES OR RESULTS DESIRED): Cloud Physics Lidar				
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: \$675,604				
13. TASK ORIGINATOR/MONITOR/CODE/PHONE: Matthew McGill/610.0/4- 6281		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: CY4_030_Rev0
Task Order Title: Cloud Physics Lidar

1.0 Task Monitor (TM):

Name: Matthew McGill
Organization: 612: Mesoscale Atmospheric Processes Laboratory
Email Address: matthew.j.mcgill@nasa.gov

2.0 Description of Work to be Performed

Task 30a Cloud Physics Lidar

- Provide for the collection and analysis of airborne cloud, aerosol and boundary layer observations with lidar involving the participation of instruments on the NASA ER-2 and other aircraft in large-scale national and international field experiments.
- Participate in field campaigns as necessary to obtain data for research programs.
- Support field preparations and deployments of the ER-2 Cloud Physics Lidar (CPL), Airborne CATS (ACATS), and Cloud-Aerosol Multi-Angle Lidar (CAMAL).
- Support the development and operation of software for the CPL/ACATS/CAMAL ground station(s).
- Provide for analysis and reporting of CPL/ACATS/CAMAL data from field missions.
- Support development of multi-sensor data algorithms and analysis techniques.
- Support web site development for upgraded/enhanced web capability (also meeting all new/applicable web site security requirements).

Task 30b CATS for ISS

- Provide support for simulation of CATS-ISS data and data records, using models and/or proxy data.
- Provide support for development of algorithms for data archiving of CATS-ISS data.
- Provide support for development of algorithms for data processing of CATS-ISS data, with emphasis on Level 1 data product development.
- Support the development and operation of software for the CATS-ISS ground station.
- Support development/testing of CATS-ISS algorithms using CALIPSO processing capabilities (in collaboration with CALIPSO/LaRC).
- Support web site development for upgraded/enhanced web capability (also meeting all new/applicable web site security requirements).

Task 30c ICESat-2 and MABEL

- Provide for the collection and analysis of airborne altimetry data from MABEL on the NASA ER-2 (or other) aircraft in large-scale national and international field experiments.
- Participate in field campaigns as necessary to obtain MABEL data for research programs.
- Support field preparations and deployments of the MABEL instrument.
- Support the development and operation of software for the MABEL ground station.
- Participate in ICESat-2 science team meetings or other activities, as appropriate.
- Support development of algorithms for ICESat-2.

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

Domestic or foreign travel required in support of field campaigns.

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.