

Thermal And Near infrared Sensor for carbon Observation (TANSO)  
onboard  
the Greenhouse gases Observing SATellite (GOSAT)

Research Announcement

Appendix D

Contents of Research Proposal and Application Forms

## **1. Cover sheet**

### **1.1. Profile of investigators (Form 1a)**

Fill in the following information in its entirety.

- Information about the Principal Investigator (PI): Name, title, department, affiliation, address, nationality, phone number, fax number, e-mail address
- Information about the RA Investigators other than the PI (Co-Is): Name, affiliation, and e-mail address of each RA Investigator
- The PI's background, experience in the selected research field, research papers, etc.
- Signature of the PI

### **1.2. Summary of the research proposal (Form 1b)**

Fill in the following information in accordance with the instructions given in parentheses.

- Research field (Select one from the five given fields: Calibration/ Validation/ Processing algorithms/ Carbon balance estimation, atmospheric transport models/ Data application.)
- Research theme (Describe the contents of your proposed research in the most simple and adequate way.)
- Main sensor to be used (Select from FTS/ CAI/ None.)
- Sensors to be used in combination (Select from FTS+CAI / None, just in case.)
- New data acquisition request, if necessary. Detailed requirement will be specified later
- Data distribution request (If necessary, select the product name(s) from Table 1 "List of GOSAT/TANSO Products" in the RA Document.)
- Abstract of your research proposal (no more than 200 words) (Include the purposes, significance of the research in the selected research field, methods, time schedule, and expected benefits of the proposed research)

## **2. Main proposal (no more than five (5) pages)**

Describe in detail the background, purposes, and technological level of the proposed research, the importance of the research compared with related researches carried out in the other fields, and the details of research activities, in the main body of the proposal. In addition, the details of research activities must include a rough plan of the work and experiments to be performed and an outline of the methods and procedures to be employed in the research. Having covered these items, describe the following items where necessary.

- Table of contents
- Purpose(s) of the proposed research
- Significance and importance of the proposed research in the selected research field
- Methodology
- Algorithms to be used
- Expected outcomes

- Distribution requests and acquisition plan for the GOSAT/TANSO data (area of interest, processing level, product name, acquisition window, etc.)
- Requests for the satellite data owned by JAXA (area of interest, processing level, acquisition window, etc.)

### **3. Work plan (Research schedule) (Form 2)**

Submit the time schedule for your research activities on Form 2, with an explanation on the focus of research work and any associated schedules.

### **4. Data distribution request**

Request for JAXA's satellite data (other than the GOSAT data) (Form 3)

In order to request a provision of datasets of any of the satellites listed below, fill out and submit Form 3. JAXA has the rights to distribute the observation data of the following satellites.

- Japanese Earth Resources Satellite (JERS) (global)
- Advanced Earth Observing Satellite (ADEOS) (global)
- Tropical Rainfall Measuring Mission (TRMM) (global)
- LANDSAT (around Japan)
- SPOT (around Japan)

In addition, the satellite data acquired in the past are archived and retrievable on the following website. Investigators who are willing to request for the satellite data are recommended to first check on the website if the data requested are available, before submitting a data request form.

- Search site for observation data of JERS, ADEOS, TRMM, SPOT\*\*, LANDSAT\*/\*\*.  
<https://www.eoc.jaxa.jp/iss/jsp/indexEn.html>

\*The LANDSAT archive (up to Landsat-5) includes data received up to March 31, 2001 (TBD).

\*\*SPOT and LANDSAT-7 archives include data received up to March 31, 2002 (TBD).

### **5. Information about the Investigators**

State the background, research papers or publications, and special skills and qualifications of the PI, as supporting information for the selection of research proposals. Likewise, present the same information about the other RA Investigators (Co-Is).

**6. Data processing and analysis facility**

List up major facilities and equipment available for carrying out the proposed research and additional facilities and equipment that the Investigators may procure. Also, describe the assistance from their organizations/affiliations, if any, for which the RA Investigators are qualified for the purpose of carrying out the proposed research.

Form 1a

Proposal No.  
(For JAXA/NIES/MOE's use)

<Cover sheet>

Profile of Investigators

Principal Investigator (PI)

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Department: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Nationality: \_\_\_\_\_ E-mail address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Co-Investigators (Co-I)

Name	Affiliation	E-mail address
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Background, experience in the pertinent research field, theses, etc. of the PI:

Signature (PI):



Form 2

Proposal No.

Work Plan for the Joint Research (Research Schedule)

Name of PI: \_\_\_\_\_

	2012				2013				2014									
	6	8	10	12	2	4	6	8	10	12	2	4	6	8	10	12	2	
Plan										Interim Evaluation							Interim Evaluation	
Description																		

	2015				2016							
	6	8	10	12	2	4	6	8	10	12		
Plan					Interim Evaluation						Interim Evaluation	
Description												

Requests for JAXA's satellite data (other than the GOSAT data)  
 (For JERS, ADEOS, TRMM, ADEOS-II, SPOT, or LANDSAT)

Name of PI: \_\_\_\_\_

Sensor	Area of Interest (pass/row or lat./lon.)	Observation window	No. of scenes		Processing level
			Min.	Max.	

The distribution media for providing the requested data will be determined according to the data size.