

**ANNEX I**

TO THE

**MEMORANDUM OF UNDERSTANDING**

BETWEEN THE

**UNITED STATES GEOLOGICAL SURVEY  
OF THE DEPARTMENT OF THE INTERIOR**

AND THE

**[INTERNATIONAL COOPERATOR]**

**FOR COOPERATION IN THE USE OF  
U.S. LAND REMOTE SENSING SATELLITE DATA**

**DEFINITION OF TERMS**

**Acquisition Radius:**

An International Cooperator's (IC's) acquisition radius is that portion of the Earth over which the satellite can communicate with an IC's ground station.

**Browse:**

Browse is a full resolution or sub-sampled Level 0R or Level 1 digital image of the Earth that can be viewed on a scene basis to quickly assess general ground area coverage, data quality, and the spatial relationships between ground area coverage and cloud coverage. A browse is an image with a reduced data volume to facilitate screening of archived Land Remote Sensing Satellite Data. Specifications regarding browse images are documented in the appropriate mission Data Format Control Book (DFCB) and made available by the USGS.

**Data Format:**

The Landsat Technical Working Group (LTWG) recommends the archive data format for exchanging data between an International Cooperator and USGS archives. The archive data exchange format for purposes of quality assessment and key government programs is typically the lowest level of processed data available (i.e. Mission or Raw Computer Compatible [RCC] Data) and is transferred electronically or on media. The archive data exchange format is documented in the appropriate mission Data Validation and Exchange Plan and associated Data Format Control Book (DFCB) and made available by the USGS.

**Data Products Distribution Format:**

The USGS Land Remote Sensing Satellite Data products are Level-0Rp (Level Zero Reformatted Product) in HDF format and Level-1T (terrain corrected) in Geo-TIFF format. International Cooperators may produce data products of their choice. ICs are encouraged, but not required to produce Level 0Rp data products in HDF format, but are required to distribute Level-1T data products in Geo-TIFF format. Specifications regarding Level-0Rp and Level-1T data products are documented in the appropriate mission Data Format Control Book (DFCB) and made available by the USGS.

**International Cooperator (IC):**

An International Cooperator (IC) is any non-U.S. Government agency or commercial organization acting on behalf of or in cooperation with a foreign government or international organization, which enters into an agreement with the USGS for purposes of receiving or exchanging Land Remote Sensing Satellite Data.

**Key U.S. Government Programs:**

Key U.S. Government Programs are any U.S. Government agencies and U.S. Government contractors, other U.S. and foreign researchers and entities involved in the United States Global Change Research Program, and U.S. and foreign researchers and foreign and international entities having signed a cooperative agreement with the United States

Government involving the use of USGS Land Remote Sensing Satellite Data for non-commercial purposes.

The United States Global Change Research Program is the Executive Branch program responding to Public Law 101-606, the Global Change Research Act of 1990, and most recently described in the annual report accompanying the President's budget entitled "Our Changing Planet: The U.S. Climate Change Science Program for Fiscal Year 2009."

International counterpart programs of the U.S. Global Change Research Program are discussed in Section 10 of "Our Changing Planet." These include the Intergovernmental Panel on Climate Change, the World Climate Research Program, the International Council on Science, and the Group on Earth Observations.

### **Mission Operations Center (MOC):**

The Mission Operations Center (MOC) consists of the people, procedures, and hardware/software systems used for the successful execution of real-time spacecraft operations and off-line scheduling and analysis activities. All command and control functions of the spacecraft performed by the Flight Operations Team (FOT) will take place from the MOC.

### **Metadata:**

Metadata is descriptive information pertaining to the USGS Land Remote Sensing Satellite Data, including such information as location and acquisition date, compiled for Level 0R and Level-1 data, and made available through the USGS user interface. Specifications regarding the metadata are documented in the Landsat Metadata Description Document (LMDD) and made available by the USGS.

### **Raw Data:**

Raw Data is the USGS Land Remote Sensing Satellite Data in the form of wideband telemetry transmitted by the satellite.

### **U.S. Government and Affiliated Users:**

U.S. Government and Affiliated Users are any federal, state or local government agency personnel and personnel from any organization performing cooperative work with or for these government agencies.

### **USGS Land Remote Sensing Satellites:**

USGS Land Remote Sensing Satellites are any satellites owned and operated by the USGS for the purposes of this agreement. These satellites may include, but are not limited to, the Landsat missions.