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<i>Document Title</i>
<b>CBERS Data Policy</b>

<i>Distribution List</i>		
Company	To	Copies
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## 1 INTRODUCTION

This document defines the data policy directives for the CBERS Program, which includes provisions for reception, processing and dissemination of CBERS imagery to countries other than Brazil and China.

## 2 GENERAL CONSIDERATIONS

The downlink data is open to any country or organization and is based on the conception that CBERS imagery will be distributed by licensed representatives who operates an *application system infrastructure* that performs data reception and processing. In this document, the term "*ground station*" stands for *application system infrastructure*.

The data downlink for CBERS will be carried out through a ground station. International ground stations will not have access to the on-board data recorder (OBDR), which will be operated exclusively by CRESDA and INPE. Each ground station receives the image raw data and process it into image products, which will then be distributed to users. The licensing of CBERS data downlinks is based on fees which are charged in a per-minute basis.

China and Brazil may, in a few special cases, upon mutual consultation, decide on the transfer of data free of charge.

The revenues resulting from the distribution of CBERS data will be equally shared between China and Brazil, with accounting adjustments taking place every six (6) months.

## 3 THE BRAZILIAN AND CHINESE GROUND STATIONS

The ground stations operated by INPE in Brazil and by CRESDA in China have unlimited access to all data collected within their footprint. The policy for distribution of data collected by those ground stations will be defined by each operator.

INPE and CRESDA will jointly agree on an international price list for CBERS images. Distribution of CBERS images to third parties will be done solely on the basis of the international price list, as agreed by China and Brazil, except in cases for which Brazil and China, upon mutual consultation, decide on the transfer of CBERS data free of charge.

#### 4 USE OF THE ON-BOARD DATA RECORDER

Usage of the OBDR will be subject to the following guidelines:

- (a) The number of hours monthly available for the OBDR will be established periodically by the engineering teams of CBERS. INPE and CRESDA will equally share the available time, i.e, 50% to CRESDA and 50% to INPE, on a non-cumulative basis, such that unused hours in a month cannot be accumulated for subsequent periods. In special situations, the usage of time could be changed after mutual consultation.
- (b) Considering the lifetime and the reliability of the OBDR, usage of OBDR should be kept to a minimum level jointly specified by CRESDA, INPE, CAST and CLTC.
- (c) It is suggested that the OBDR should mainly be used in emergency situations and for demonstration and test purposes.

Images stored in the OBDR are downloaded at the Brazilian and Chinese ground stations. INPE and CRESDA will distribute these data according to the agreed international price list for CBERS images, except in special cases for which Brazil and China, upon mutual consultation, decide on the transfer of CBERS data free of charge.

#### 5 DEVELOPMENT OF APPLICATION SYSTEM INFRASTRUCTURE

INPE and CRESDA shall agree on the policy for the construction or update of the receiving and processing systems to be installed at all, international, licensed ground stations, which will be defined in a specific document.

Information regarding data downlink, i.e., satellite to ground station interface, is regarded as intellectual property of INPE and CRESDA and will not be disclosed to third parties unless agreed in writing by the parties. INPE and CRESDA will encourage Brazilian and Chinese companies to act as providers of the CBERS application system infrastructure.

INPE and CRESDA shall agree on a common specification for the CBERS application system infrastructure, hardware and software, and on a work breakdown structure which defines which component will be built by each party.

In the case of the Brazilian and Chinese ground stations, the parties shall agree on a joint specification. Each party is then free to decide on his development strategy that will preferably be done only by its national companies. The parties agree that any component of the ground station that cannot be built by its local industry will first be offered to the other partner, before any contracts are placed in the international market.

## 6 LICENSING POLICY FOR INTERNATIONAL GROUND STATIONS

International ground stations will be licensed according to the following guidelines:

- (a) CBERS data reception, processing and distribution to other countries will be carried out by licensed representatives jointly appointed by CRESDA and INPE.
- (b) The licensed representative will commercialize CBERS data downlink to ground stations based on an annual fixed basis, based on a fee determined by INPE and CRESDA. The annual fee will be determined by the conditions of the ground stations, including geographical location and antenna footprint.
- (c) The CBERS reception and production systems will be provided by Brazilian and Chinese companies, according to the provisions set on item 5.
- (d) The agreements for data reception are limited by technical capabilities of the satellite.
- (e) The data downlink to the ground station will have priority over use of the on-board data recorder, except in the case of emergency situations, as determined by INPE and CRESDA.
- (f) When requested by INPE or CRESDA, the licensed representative shall provide a copy of collected CBERS raw data.
- (g) Within the valid period of the license, INPE and CRESDA will provide technical support to the licensed representative, according to the provisions set in the licensing agreement.
- (h) The licensed representatives shall provide their customers satellite, receiving and processing parameters such as: satellite ephemeris, calibration data of the payloads, orbit holding information, satellite attitude control status data, satellite attitude control performance data and sensor performance attenuation information.
- (i) The licensed representatives shall hold annual meetings with their customers and promote the diffusion of any news or decisions about CBERS.

## 7 **PRODUCT DISTRIBUTION POLICY**

The commercial agreement between licensed representatives and distributors shall include the following:

- (a) The right of receiving, processing and distributing CBERS data shall be granted to the distributor by the licensed representative.
- (b) For the distributed products, definition, name, content, processing level, media, browsing and search mode, ordering procedure and after-service shall conform to a standard product format, specified in a specific document by INPE and CRESDA.
- (c) An authorization for a CBERS distributor will be granted only after the acceptance by CRESDA and INPE of a sample of its products.
- (d) INPE and CRESDA will set up, maintain and run a central catalog on CBERS data, including the metadata, browse data and related updated technological data.
- (e) All the browse images of CBERS data collected by the distributor must be sent to the central catalog at least once every month.
- (f) Each distributor could set its native price list independently for distribution solely within its respective national market. Images distributed within the distributor's national market may not be exported abroad.
- (g) When distributing abroad, the distributor must refer to the international price list set by INPE and CRESDA.
- (h) The distributor must provide its domestic price list, i.e., the price for its native users, to INPE and CRESDA.
- (i) The distributor shall provide an report of the data distribution every six months to INPE and CRESDA.
- (j) The distributor must provide and update the following documents for the users: (a) CBERS users' handbook; (b) standard PATH/ROW map; (c) CBERS orbit forecast; (d) application demonstration CD.