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PROGRAMA DEL SATELITE DE RECURSOS NATURALES  
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**SPACE PHOTOMAP OF THE SUBRE - BOLIVIA REGION**

**ERTS PROGRAM - BOLIVIA**

**Por: C.E. Brockmann  
F. Ocampo Villa**

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# Space Photomap of the Sucre-Bolivia region

## ERTS PROGRAM- BOLIVIA

Por: C. Brockmann  
F. Ocampo Villa

### I. GENERALITIES

On the "type I Report" which corresponds to the June-October 1972 period within the sphere of the objectives of the ERTS Program, it was promulgated the preparation of photomaps at different scales, with the objective of evaluating the geometric resolution which was the ERTS imagery presented by ERTS volume, for the preparation of the first physical map of Bolivia, once that the entire images of the country was completed.

As a result of this planning the first "Space Photomap" of the Sucre-Bolivia zone was prepared, utilizing the ERTS-1 imagery which corresponds to the section, as an experimental new provisional cartographic product.

The "Space Photomap" includes part of the ST-19-12; ST-20-9; ST-19-16 and ST-20-13 sheets of the CUTM distribution, corresponding to the Bolivian Republic, reproduced at an approximate scale of 1:250,000.

### II. METHOD OF WORK:

For the elaboration of this first "Space Photomap" of the Sucre region, we utilized parts of the T-1008-13522-1 imagery of the RBV system, which was amplified in two parts: the first one, the format 70 x 70 mm. to 23 x 23 cm., obtaining as a result the 1:1,000,000 scale, and later passing to 1:250,000 scale. For this purpose, we utilized the controls available on the Sucre and adjacent sheets, which consists of a determined cartometric positions, localized in photoidentified cartographic details.

The specific projections are ones utilized in large scales. In this work we utilized the CUTM, as well as a series of squares according to the MT-5241-1 specifications; the marginal datum according to the model sheet TPC-25-50-100 with some modifications corresponding with the reproduction of impression colors and with "intensified colors" in accordance with the I.P.G.M.'s publication No. 321. Space Photomap of the Sucre-Bolivia region - ERTS PROGRAM - Bolivia (Cont'd).

### III. CONCLUSIONS:

The present cartographic productions was completed as an experiment. That is the main reason why the present photomap has many errors in its representation, among them is the lack of relation between the distribution of sheets at an 1:250,000 scale; the quality of the reproduced imagery is not perfect: the format has to be studied again; the assigned colors were put on the dry zone, and the green color was operput on the region covered by xerophile vegetation.

All of these errors will be considered for the next new map production. Due to the forementioned facts, the cartographic sub-program, the pertinent studies concerning ERTS imagery processed by precision has been realized, that is to produce a new "Space Photomap" which will be reproduced with the use of the three RBV bands, utilizing the system of "Irregular Small Points".

Once these and future problems that may appear in the present investigations are resolved, we can draw the conclusion that the CRTS imagery can be an excellent product applicable in cartography when one applies respective control of the groundpoint.

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