

Huancabamba Multi-client Stereo Landsat Study

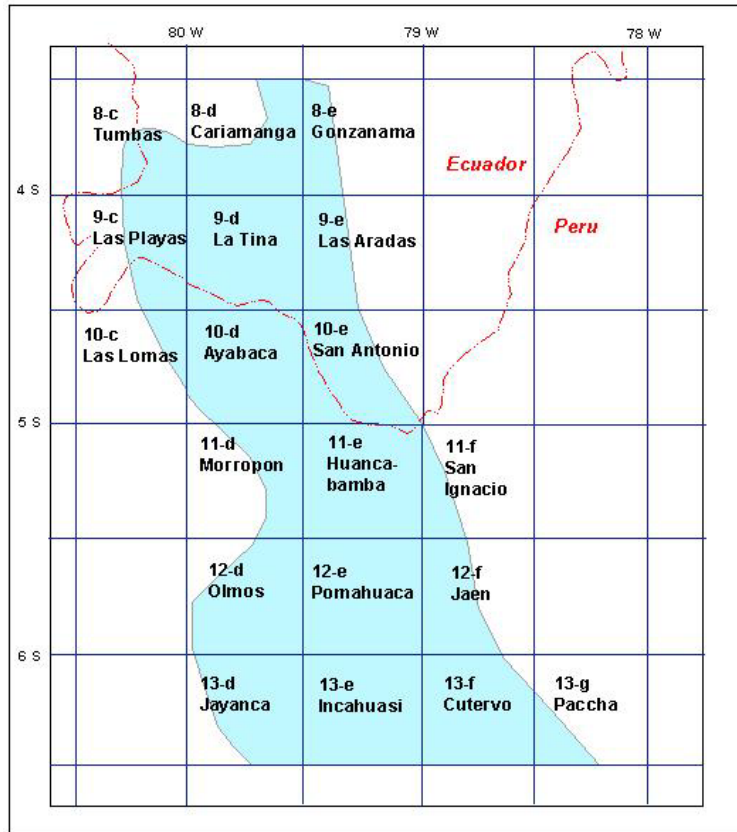
Photogeological Interpretation of merged Landsat 7 ETM+ and Shuttle Radar DEM ('STEREO-SATMAP')

Compiled by Colin Nash and Associates Pty Ltd and GEOIMAGE Pty Ltd

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Colin Nash and Associates and GEOIMAGE are pleased to announce their new Huancabamba multi-client study, which covers a large region in northern Peru and southern Ecuador.

A set of digital 'left stereo images' (RGB=741) for each 1:100,000 sheet area are also provided. These may be used to create stereo pairs with the standard RGB=741 images.



This is the latest in a series of Landsat multi-client studies over the Central Andes of Peru and Chile, and is the **first to make use of 'Stereo-Satmap', a technique based on new 3-D stereoscopic Landsat 7 ETM+ imagery, created by using new Shuttle Radar digital elevation data.** The stereoscopic Landsat imagery provides an excellent method of identifying structural features.

The Huancabamba study covers the probable northward extension of a major N-S Late Miocene metallogenic belt containing the large, high-sulphidation Alto Chicama, Yanacocha and Hualgayoc volcanic-hosted Au/Ag deposits.

The standard study package will consist of the following:

1. Digital Landsat Data

The Landsat 7 ETM+ data used in this study will be supplied on CD ROM all participants. The Landsat data are in discrete image sets corresponding to the individual 1:100,000 scale Sheet areas shown above, and are georectified to appropriate topographic maps. Both RGB=741 and LSFIt greyscale clay prediction images are supplied.

2. Hardcopy Landsat Data

The standard study package will include a hardcopy 1:250,000 scale RGB=741 image of the area.

3. Digital Interpretation Data

Geological data interpreted from the stereo Landsat images are presented as digitised, fully attributed interpretation maps in digital (MapInfo or ArcView) format. Data shown on the maps include bedding/foliation traces and dips; geological boundaries, interpreted fault and fold axial traces. **Particular attention is focussed upon differentiation of Incaic and Quechua structures** that are seldom discriminated on existing maps. We have also depicted possible geomorphic anomalies related to intrusive stocks and hydrothermal alteration. The maps also show the distribution of significant stratigraphic units, with particular attention to the mapping and correlation of Cenozoic volcanic sequences.

The study also includes the identification of possible areas of hydrothermal alteration using Least Squares (LSFit) clay prediction images. A list of possible anomalies is provided for each 1:100,000 sheet area.

4. 1:250,000 Scale Overview Map

A hardcopy digitally drafted 1:250,000 scale overview map will be provided to participants.

5. Report

A comprehensive report describing method and results will be provided to each participant.

6. Timing

It is anticipated that the study will be demonstrated to interested parties in February 2004.

7. Cost

The cost of the study will be US\$ 15,000, or a discounted price of US\$ 12,000 to clients who have already purchased one or more of our studies.

8. Copyright and Reproduction of Data

The maps, images and reports forming part of this study are copyrighted to GEOIMAGE Pty Ltd and Colin Nash and Associates Pty Ltd. Participants in the study are requested not to use the material in external reports or prospectuses, nor to pass it on to Joint Venture partners

GEOIMAGE PTY LTD

www.geoimage.com.au

Brisbane Office
13/180 Moggill Road
Taringa QLD 4068 Australia
TEL: +61-7-3871 0088
FAX: +61-7-38710042
Email: geoimage@geoimage.com.au

Perth Office
27A Townshend Rd, SUBIACO,
Western Australia. 6008 Australia
TEL: +61-8-9381 7099
FAX: +61-8-9381 7399
Email: perth@geoimage.com.au


Colin Nash and Associates Pty Ltd

PO Box 519
Mt Gravatt Plaza Qld 4122
AUSTRALIA

phone: (61+7) 3395 3222
fax: (61+7) 3395 3233
email: cnash@gil.com.au
web: www.colnash.com.au