

## GC31B-0476 GEOLOGICAL MAPPING USES LANDSAT 4-5TM SATELLITE DATA IN MANLAI SOUM OF OMNOGOVI AIMAG

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Author: Bayanmonkh N<sup>1</sup>, Undram.G<sup>1</sup>, Tsolmon.R<sup>2</sup>, Ariunzul.Ya<sup>1</sup>, Bayartungalag B<sup>3</sup>

<sup>1</sup> Environmental Research Information and Study Center

<sup>2</sup>NUM-ITC-UNESCO Space Science and Remote Sensing International Laboratory, National University of Mongolia

<sup>3</sup>Geology and Hydrology School, Korea University

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### ABSTRACT

Geologic map is the most important map for mining when it does exploration job. In Mongolia geological map completed by Russian geologists which is done by earlier technology. Those maps doesn't satisfy for present requirements. Thus we want to study improve geological map which includes fracture, structural map and lithology use Landsat TM4-5 satellite data. If we can produce a geological map from satellite data with more specification then geologist can explain or read mineralogy very easily. We searched all methodology and researches of every single element of geological mapping. Then we used 3 different remote sensing methodologies to produce structural and lithology and fracture map based on geographic information system's softwares. There can be found a visible lithology border improvement and understandable structural map and we found fracture of the Russian geological map has a lot of distortion.

The result of research geologist can read mineralogy elements very easy and discovered 3 unfound important elements from satellite image.

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### Author

[Bayanmunkh Norovsuren](#)

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