

Radiometric Potassium count and Factor score 2 distribution map

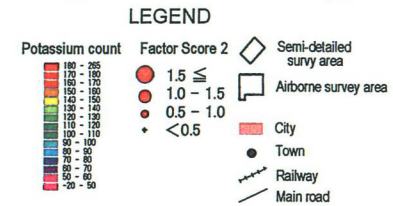
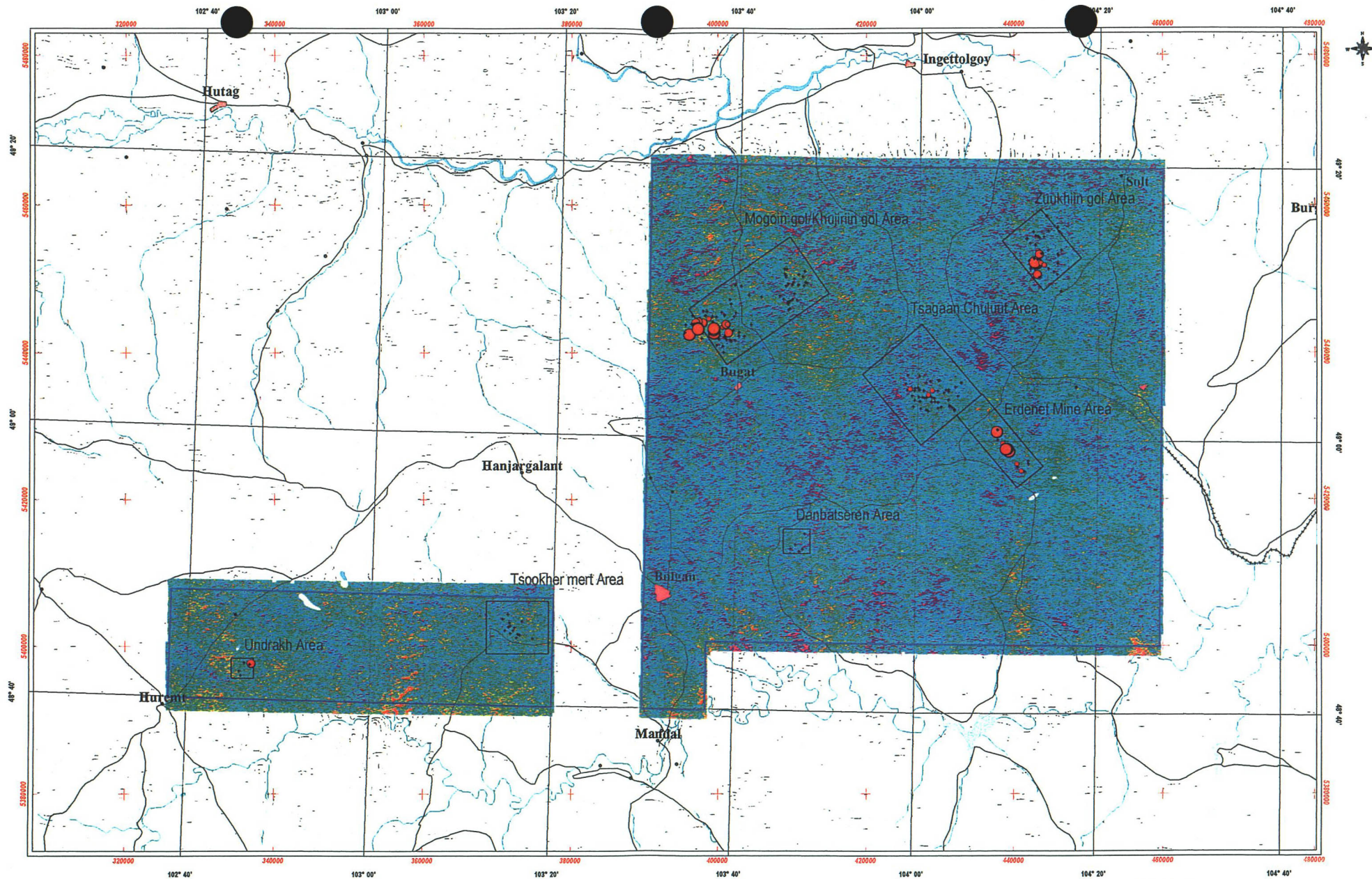


Fig. II-3-6 Colored Potassium radiometric image and factor 2 distribution in the Western Erdenet area



Radiometric Uranium count and Factor score 2 distribution map

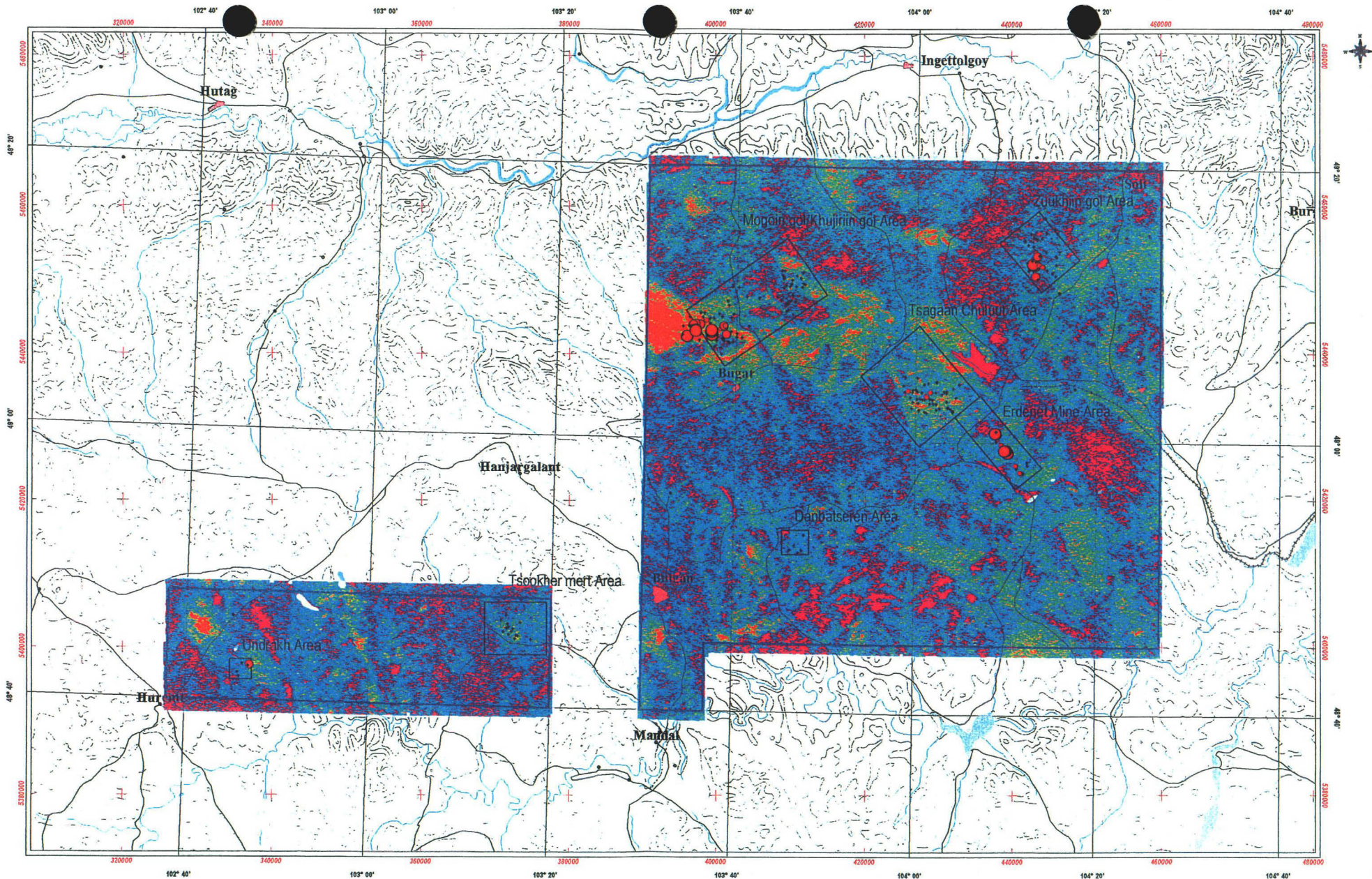


Projection: UTM
Spheroid: WGS84
Zone: 48

LEGEND

	Uranium count		Factor Score 2		Semi-detailed survey area
			1.5 ≤		Airborne survey area
			1.0 - 1.5		City
			0.5 - 1.0		Town
			< 0.5		Railway
					Main road

Fig. II-3-7 Colored Uranium radiometric image and factor 2 distribution map in the Western Erdenet area



Radiometric Thorium count and Factor score 2 distribution map



Projection: UTM
Spheroid: WGS84
Zone: 48

LEGEND

<p>Thorium count</p>	<p>Factor Score 2</p> <ul style="list-style-type: none"> 1.5 \leq 1.0 - 1.5 0.5 - 1.0 < 0.5 	Semi-detailed survey area Airborne survey area City Town Railway Main road
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Fig. II-3-8 Colored Thorium radiometric image and factor 2 distribution map in the Western Erdenet area

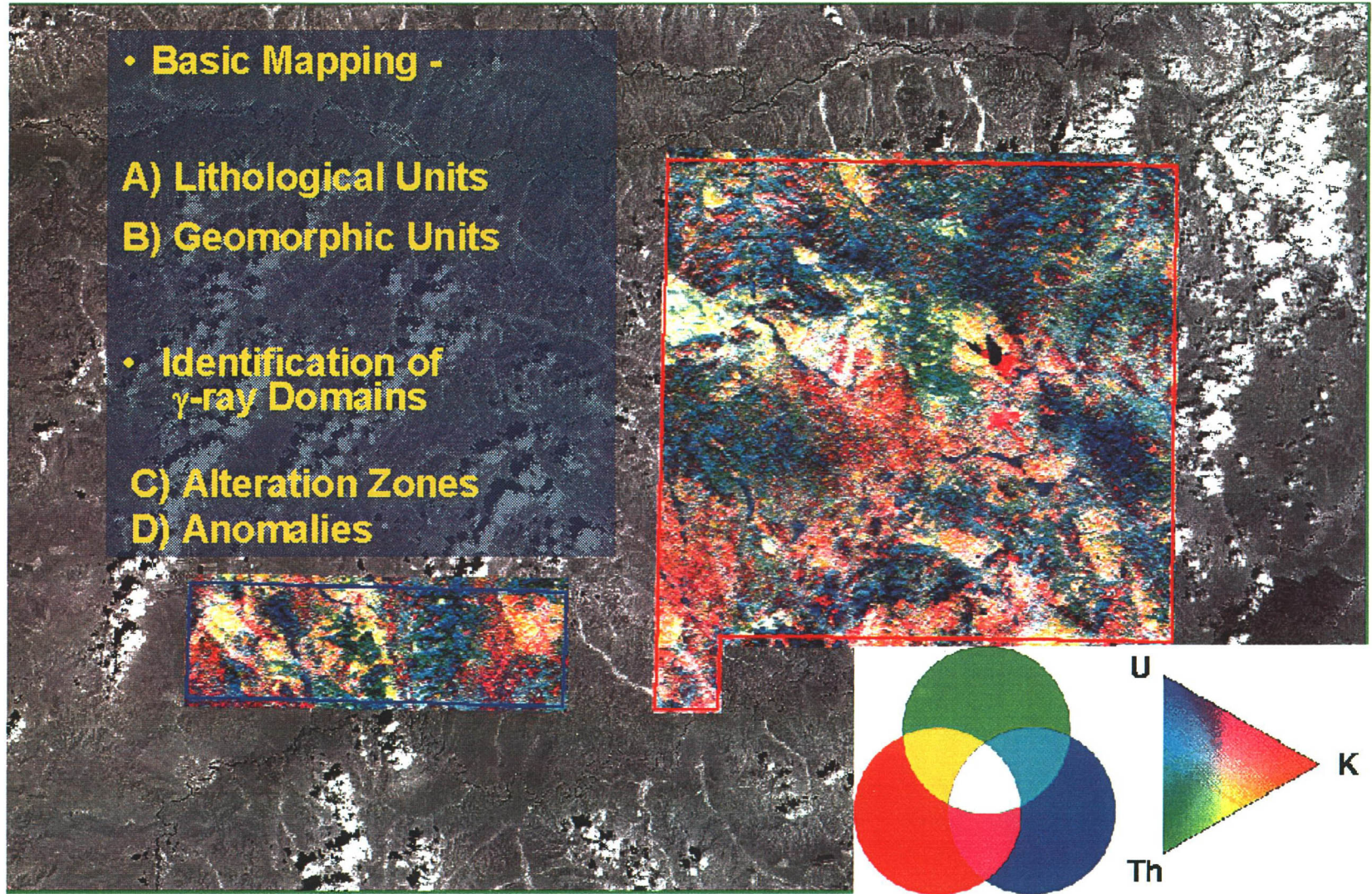


Fig. II-3-9 Colored Ternary radiometric image in the Western Erdenet area

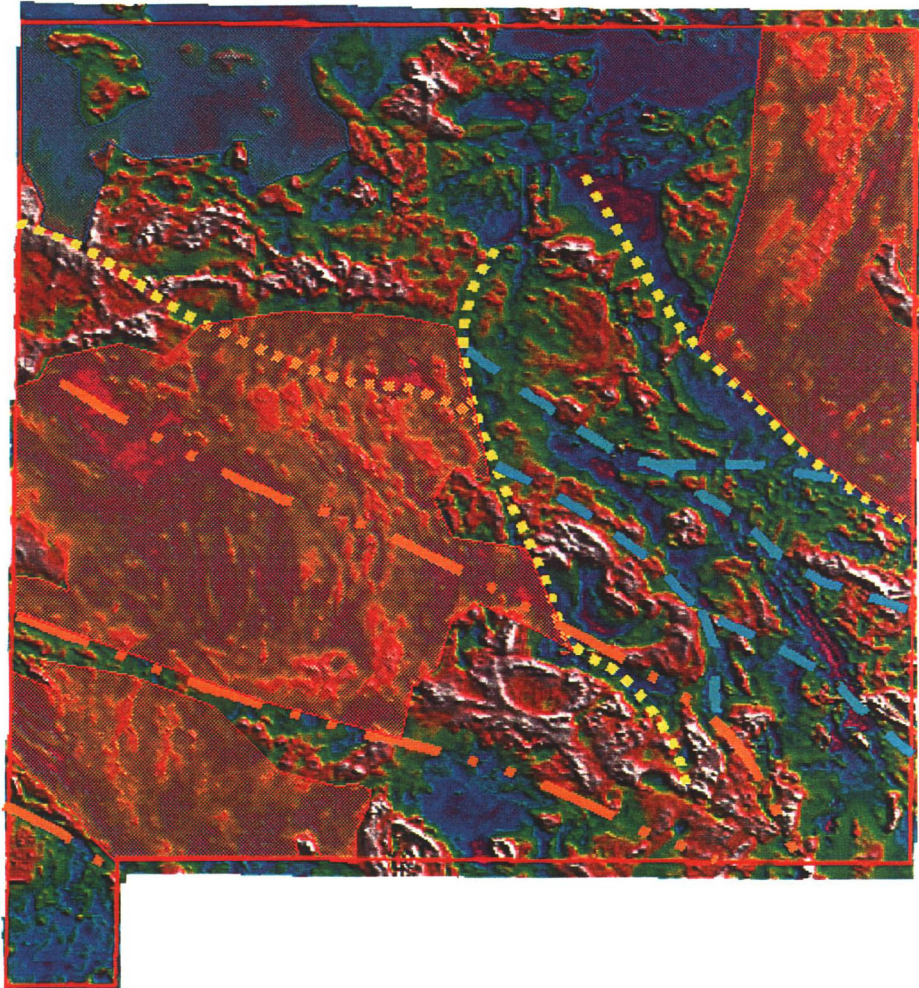
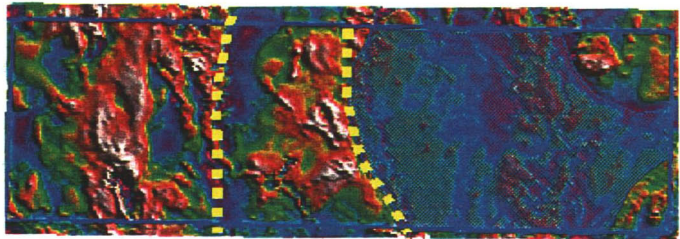


Fig. II-3-10 Solid Interpretation Map (1)

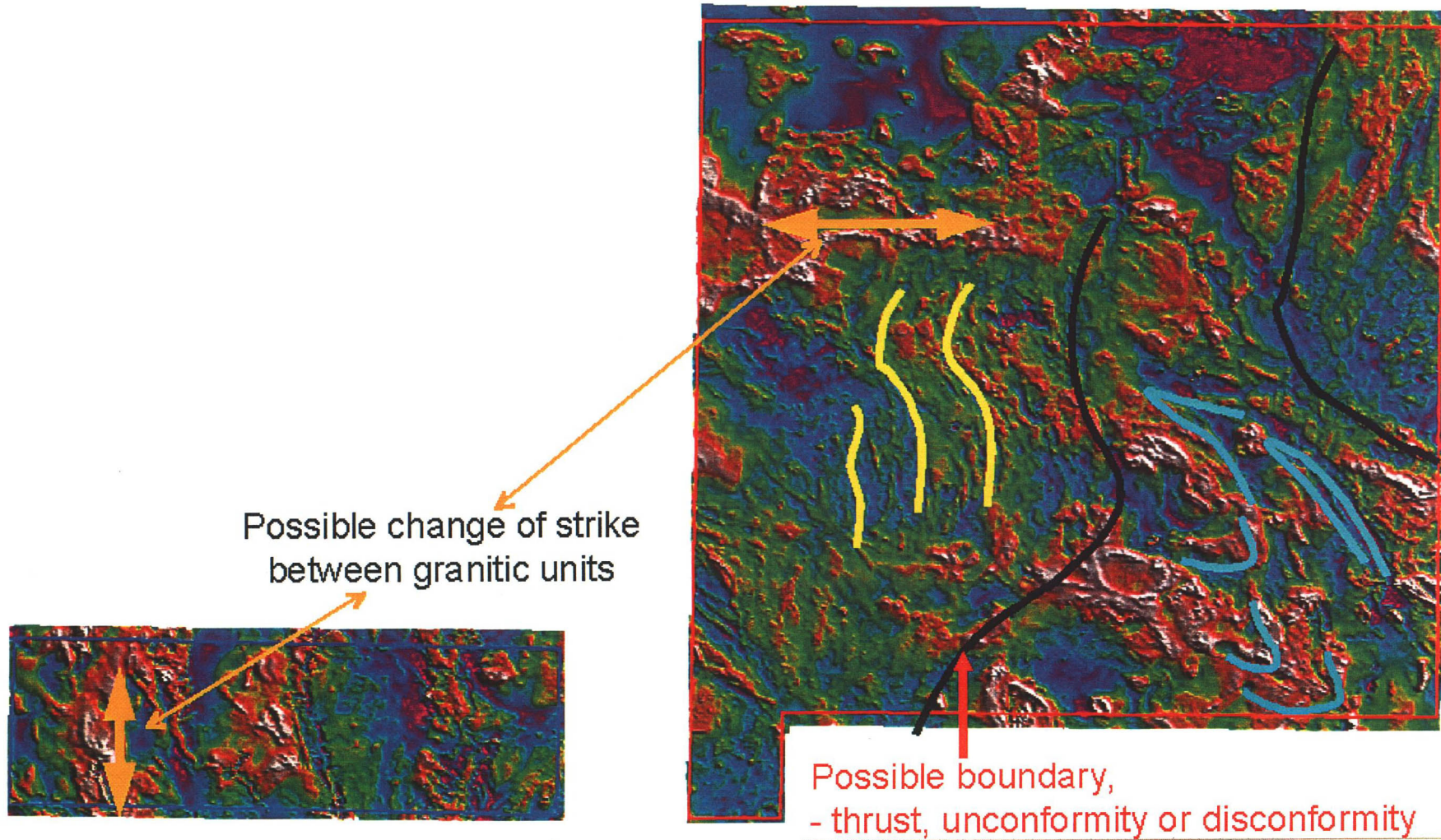


Fig. II-3-11 Solid Interpretation Map(2)

3-5-2 Airborne radiometric data (potassium count)

In area 1, the same NW-SE magnetic is also recognized. High potassium concentrations occur along this NW-SE trend. There are also high potassium concentrations in the south and west of the area. Some of the high potassium concentrations coincide with high magnetic signatures.

N-S and NW-SE radiometric trends are observed in Area 2. High potassium anomalies are detected in the east and west of the area.

Concerning the relationship between geological and geochemical semi-detailed areas and radiometric potassium signature, Erdenet area and Tsookher Mert area are located both located in high potassium anomalies, which suggests the occurrence of granitic rock. Potassium alteration may be included in the anomaly. Tsagaan Chuluut and Danbatseren areas are located in zones of low potassium concentrations due probably to the effect of strong silicification.

3-5-3 Ternary Radiometric count

In Figure II-39, Potassium, Thorium and Uranium signatures correspond to Red, Green and Blue (RGB) respectively.

White color shows high radiometric counts while black color shows low radiometric counts.

Two places with black colors that are located in the north-east central part in area 1, show the location of dam filled with water and a lake.

White colored zones (high radiometric count) are spread through the east and west around Mogoin Gol area that show areas where granite is distributed.

A strong white color shows the open pit of Erdenet mine.

Thorium anomalies are located in Tsagaan Chuluut area and in the north side of Tsagaan Chuluut.

3-5-4 Solid Interpretation Map (1)

From the airborne results, a zone of basement rocks (gneiss – granitic rocks) is extracted from the southeast part of area-1 to north side and continues to the western side. This zone consists of graben or thrust sequence. Both sides of this zone are distributed within a more young sedimentary/igneous basin.

Basement rocks are located in the western side of area 2, which shows a north-south trending structure.

A tectonic line detected on the south part of Area-1 along a ENE-WSW seems to intersect the basement rocks and younger sedimentary basins.

3-5-5 Solid Interpretation Map (2)

Black line of this figure (Fig. II-3-10 and 11) shows a border of the basement rocks and younger sedimentary basin that seems to thrust, unconformity or disconformity.