

Fig. II-3-18 Total magnetic intensity of airborne survey in the Erdenet Mine area

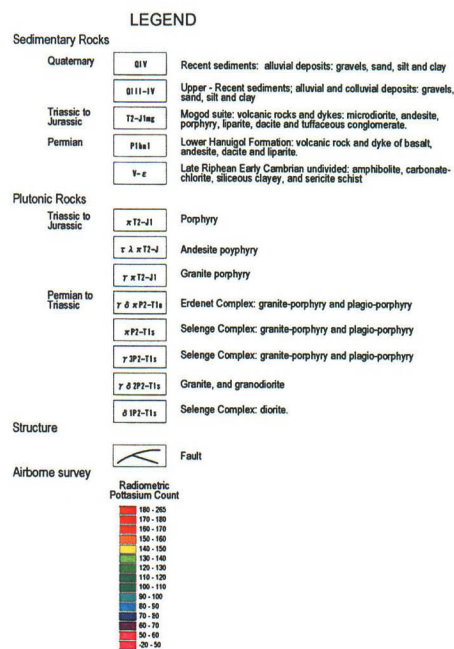
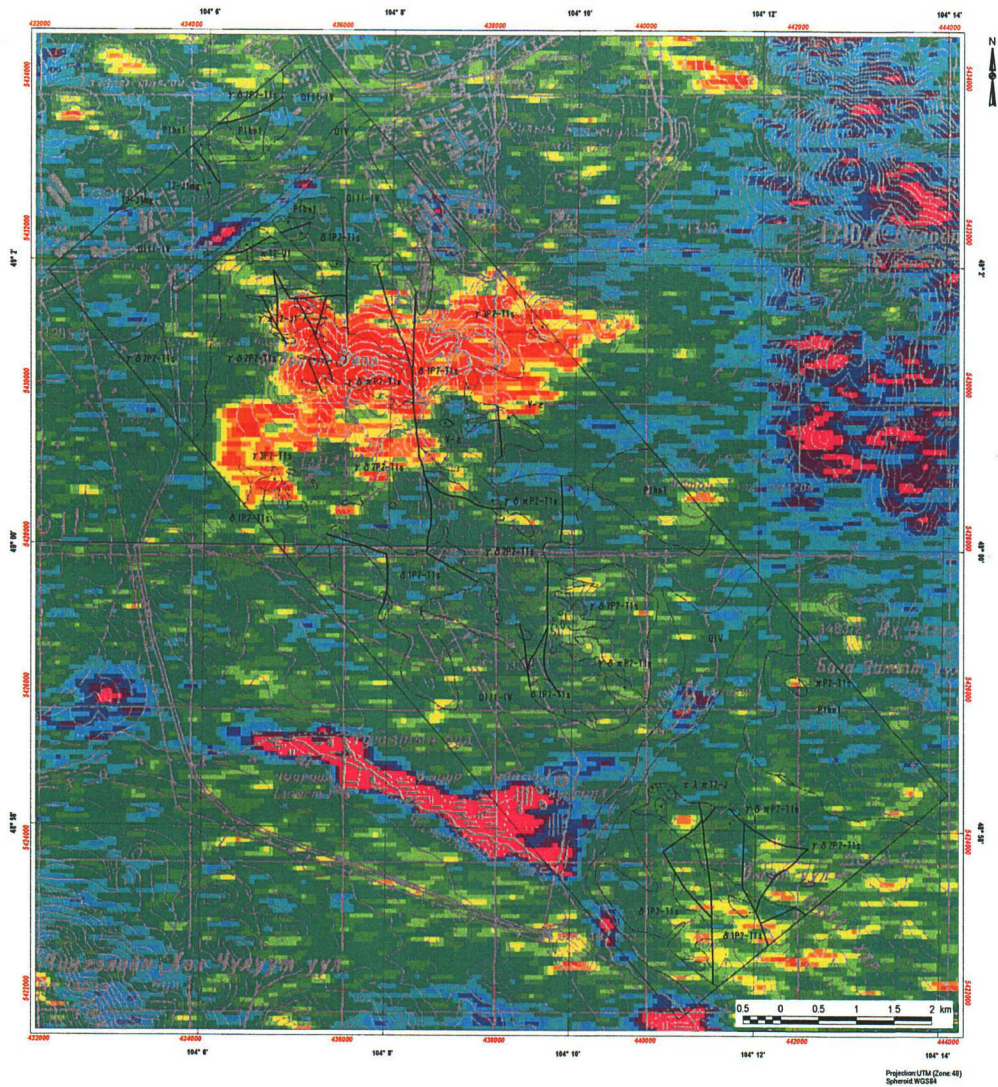


Fig. II-3-19 Radiometric potassium count of airborne geological survey in the Erdenet Mine area

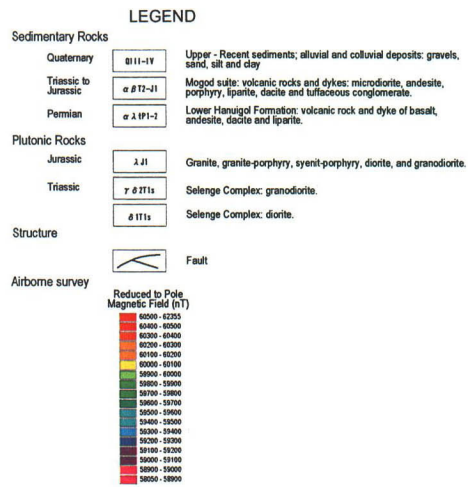
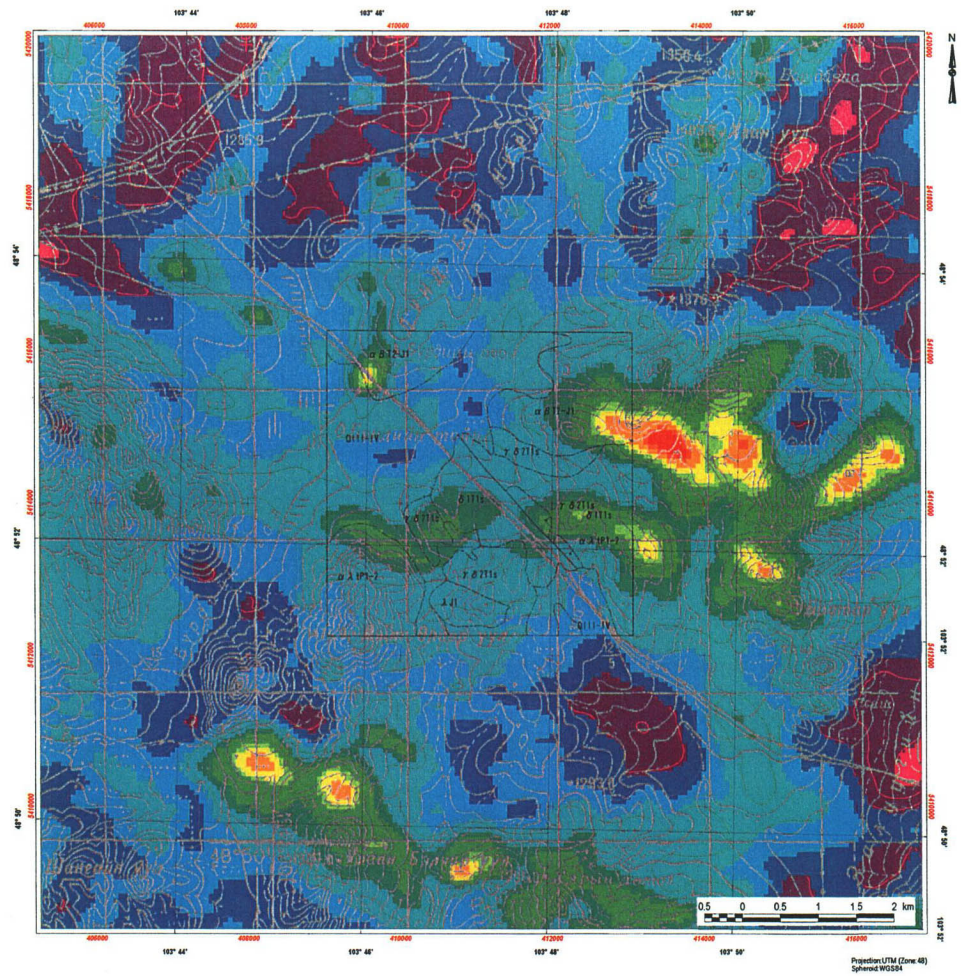
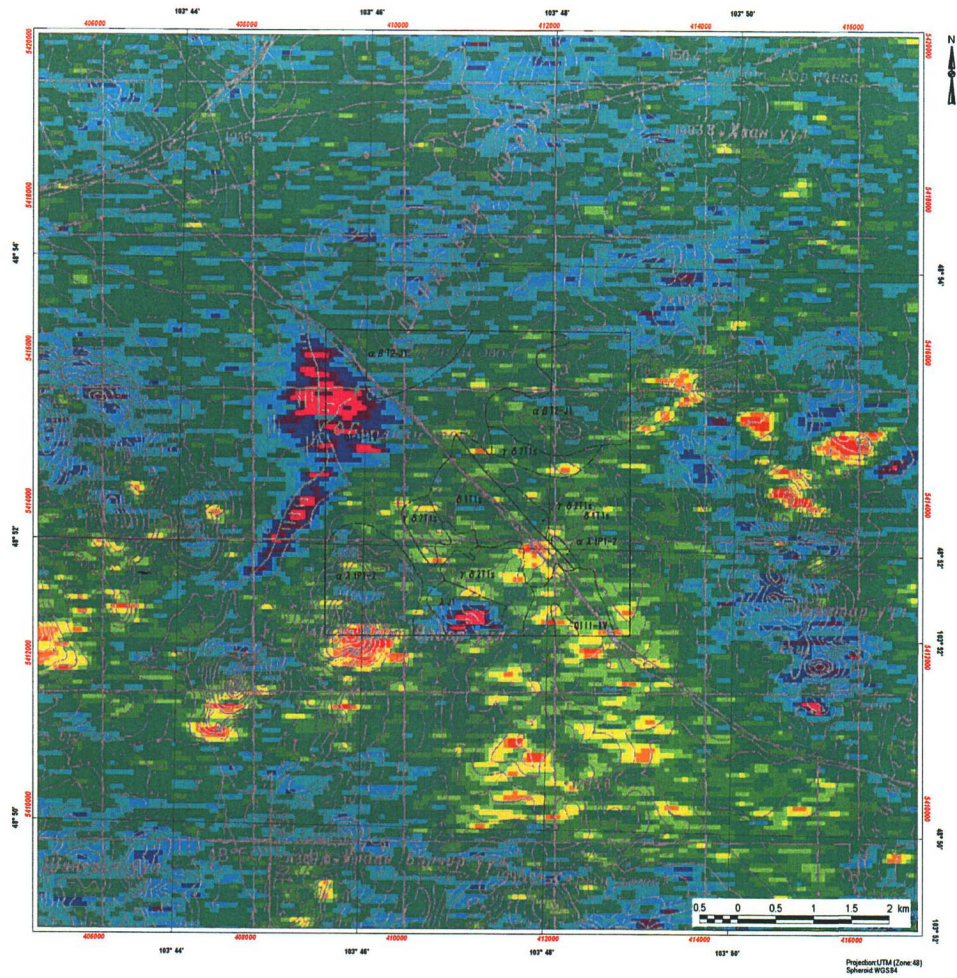


Fig. II-3-20 Total magnetic intensity of airborne survey in the Danbatseren area



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Sedimentary Rocks		
Quaternary	0111-IV	Upper - Recent sediments; alluvial and colluvial deposits: gravels, sand, silt and clay
Triassic to Jurassic	α 87T-1	Mogod suite: volcanic rocks and dykes; microdiorite, andesite, porphyry, liparite, dacite and tuffaceous conglomerate.
Permian	α 2 IP1-2	Lower Hanuigel Formation: volcanic rock and dyke of basalt, andesite, dacite and liparite.
Plutonic Rocks		
Jurassic	J 21	Granite, granite-porphyry, syenit-porphyry, diorite, and granodiorite.
Triassic	γ 87T1s	Selenge Complex: granodiorite.
	δ 111s	Selenge Complex: diorite.
Structure		
		Fault
Airborne survey		
	Radiometric Potassium Count	
	180 - 205	
	170 - 180	
	160 - 170	
	150 - 160	
	140 - 150	
	130 - 140	
	120 - 130	
	110 - 120	
	100 - 110	
	90 - 100	
	80 - 90	
	70 - 80	
	60 - 70	
	50 - 60	
	20 - 50	

Fig. II-3-21 Radiometric potassium count of airborne geological survey in the Danbatseren area

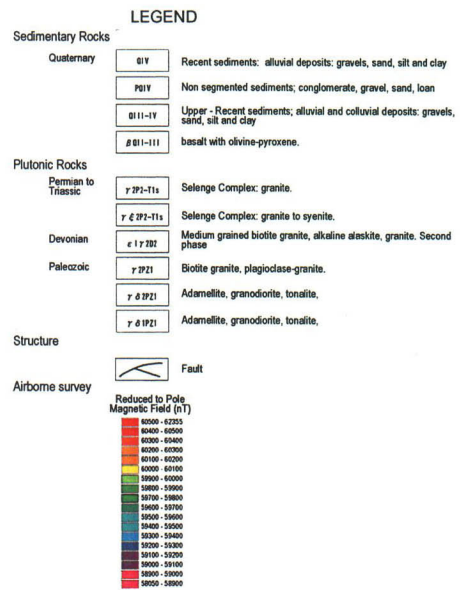
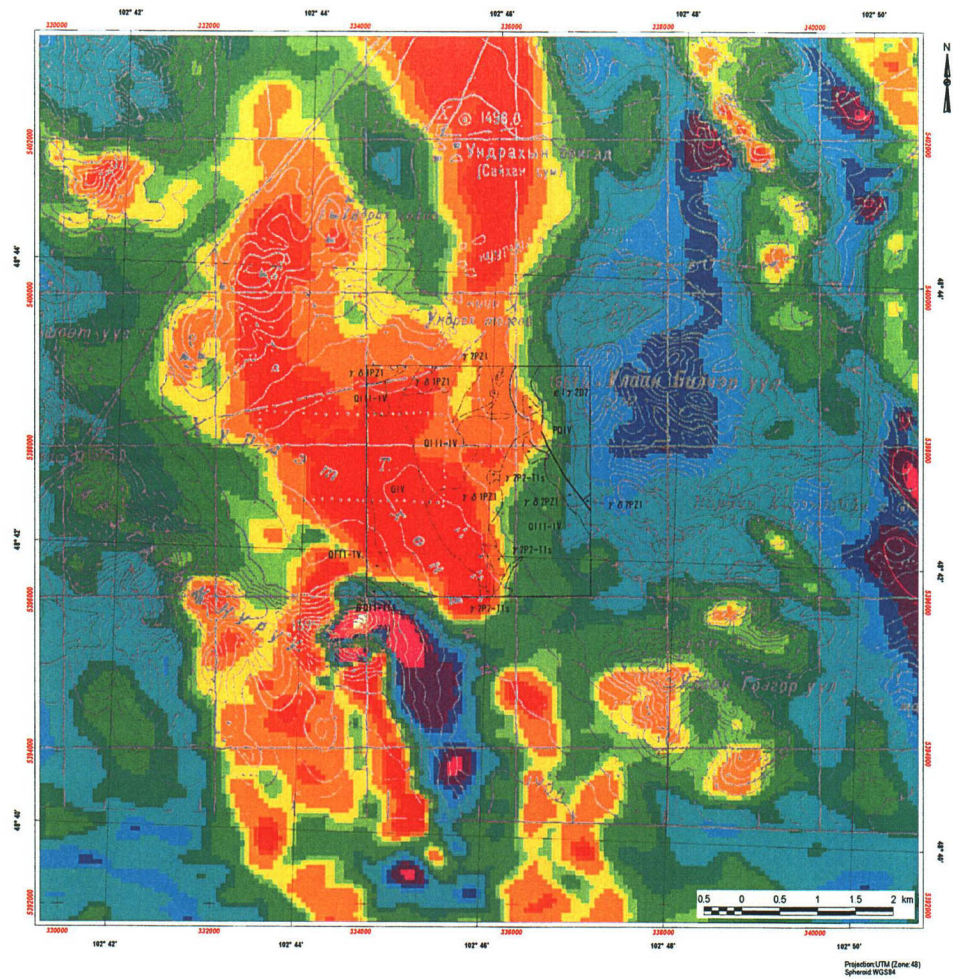
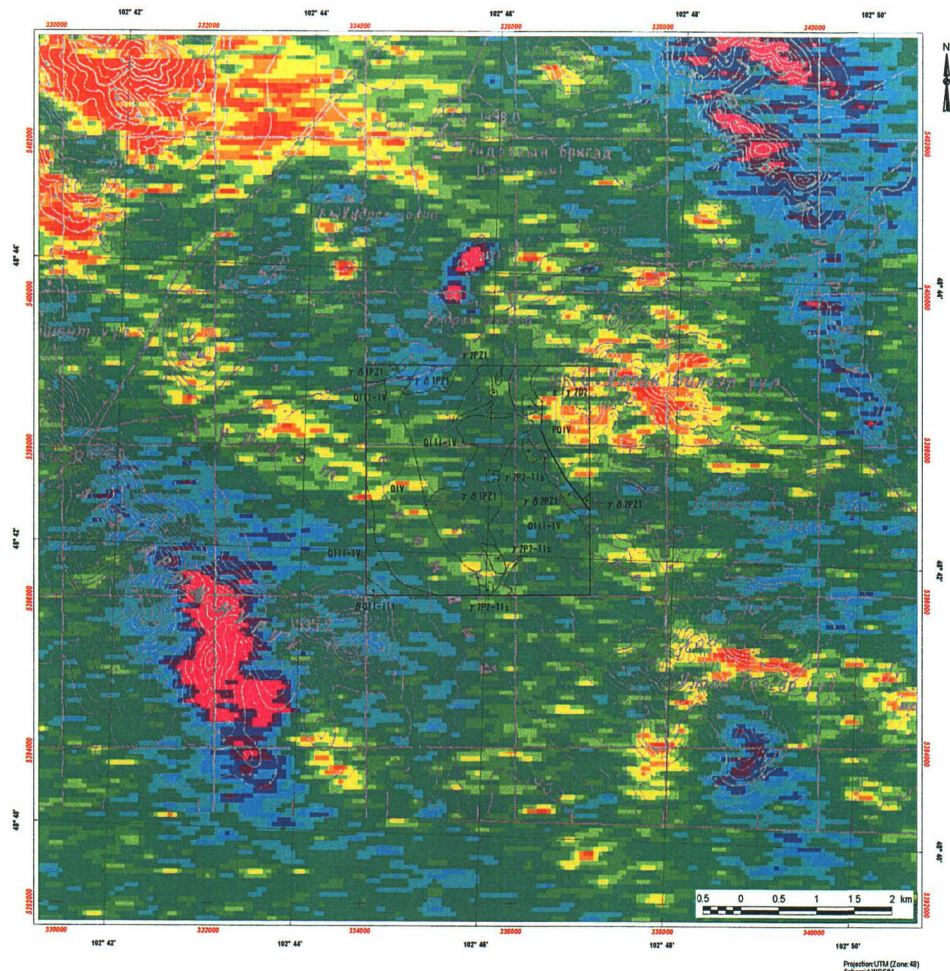


Fig. II-3-22 Total magnetic intensity of airborne survey in the Undrak area



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Sedimentary Rocks																																	
Quaternary	<table border="0"> <tr> <td>QIV</td> <td>Recent sediments: alluvial deposits: gravels, sand, silt and clay</td> </tr> <tr> <td>P0IV</td> <td>Non segmented sediments: conglomerate, gravel, sand, loam</td> </tr> <tr> <td>Q111-IV</td> <td>Upper - Recent sediments, alluvial and colluvial deposits: gravels, sand, silt and clay</td> </tr> <tr> <td>β Q11-III</td> <td>basalt with olivine-pyroxene.</td> </tr> </table>	QIV	Recent sediments: alluvial deposits: gravels, sand, silt and clay	P0IV	Non segmented sediments: conglomerate, gravel, sand, loam	Q111-IV	Upper - Recent sediments, alluvial and colluvial deposits: gravels, sand, silt and clay	β Q11-III	basalt with olivine-pyroxene.																								
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Plutonic Rocks																																	
Permian to Triassic	<table border="0"> <tr> <td>r 7P21-T1s</td> <td>Selenge Complex: granite.</td> </tr> <tr> <td>r 6P21-T1s</td> <td>Selenge Complex: granite to syenite.</td> </tr> </table>	r 7P21-T1s	Selenge Complex: granite.	r 6P21-T1s	Selenge Complex: granite to syenite.																												
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r 6P21-T1s	Selenge Complex: granite to syenite.																																
Devonian	e 1 r 7B2 Medium grained biotite granite, alkaline alkasite, granite. Second phase																																
Paleozoic	<table border="0"> <tr> <td>r 7P21</td> <td>Biotite granite, plagioclase-granite.</td> </tr> <tr> <td>r 6P21</td> <td>Adamellite, granodiorite, tonalite,</td> </tr> <tr> <td>r 6IP21</td> <td>Adamellite, granodiorite, tonalite,</td> </tr> </table>	r 7P21	Biotite granite, plagioclase-granite.	r 6P21	Adamellite, granodiorite, tonalite,	r 6IP21	Adamellite, granodiorite, tonalite,																										
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Structure	Fault																																
Airborne survey	<table border="0"> <tr> <td colspan="2">Radiometric Potassium Count</td> </tr> <tr> <td>180 - 265</td> <td>Red</td> </tr> <tr> <td>170 - 180</td> <td>Orange-red</td> </tr> <tr> <td>160 - 170</td> <td>Orange</td> </tr> <tr> <td>150 - 160</td> <td>Yellow-orange</td> </tr> <tr> <td>140 - 150</td> <td>Yellow</td> </tr> <tr> <td>130 - 140</td> <td>Light green</td> </tr> <tr> <td>120 - 130</td> <td>Green</td> </tr> <tr> <td>110 - 120</td> <td>Light blue</td> </tr> <tr> <td>100 - 110</td> <td>Blue</td> </tr> <tr> <td>90 - 100</td> <td>Dark blue</td> </tr> <tr> <td>80 - 90</td> <td>Very dark blue</td> </tr> <tr> <td>70 - 80</td> <td>Dark purple</td> </tr> <tr> <td>60 - 70</td> <td>Black</td> </tr> <tr> <td>50 - 60</td> <td>Dark grey</td> </tr> <tr> <td>20 - 50</td> <td>Light grey</td> </tr> </table>	Radiometric Potassium Count		180 - 265	Red	170 - 180	Orange-red	160 - 170	Orange	150 - 160	Yellow-orange	140 - 150	Yellow	130 - 140	Light green	120 - 130	Green	110 - 120	Light blue	100 - 110	Blue	90 - 100	Dark blue	80 - 90	Very dark blue	70 - 80	Dark purple	60 - 70	Black	50 - 60	Dark grey	20 - 50	Light grey
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Fig. II-3-23 Radiometric potassium count of airborne geological survey in the Undrak area

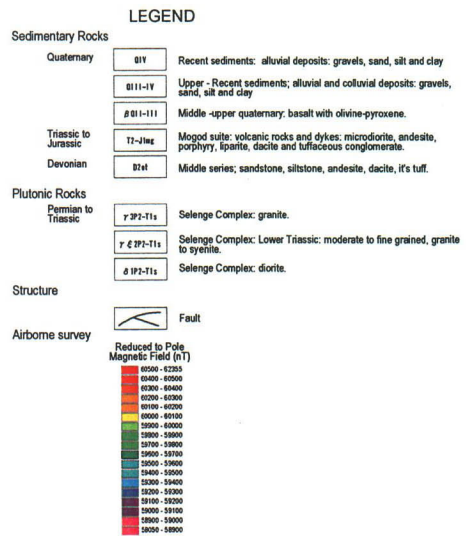
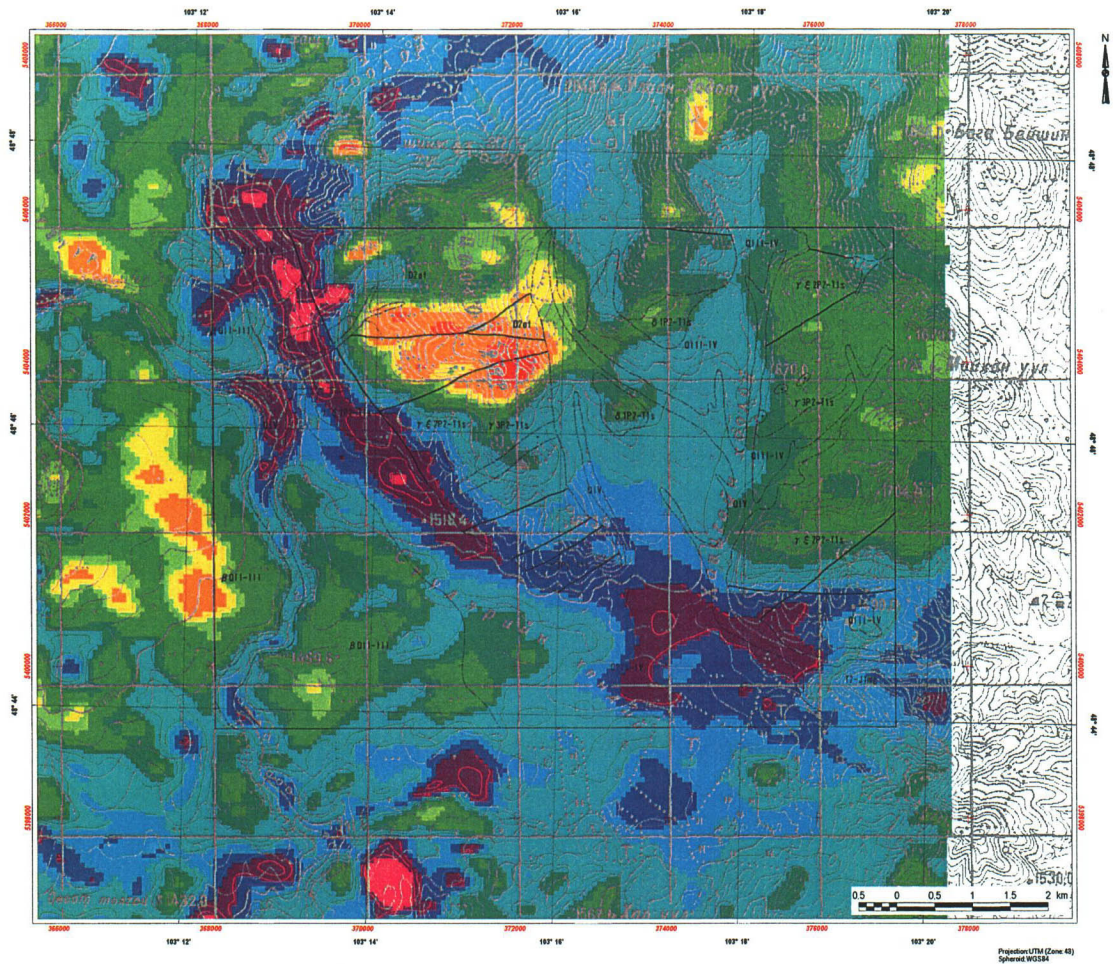
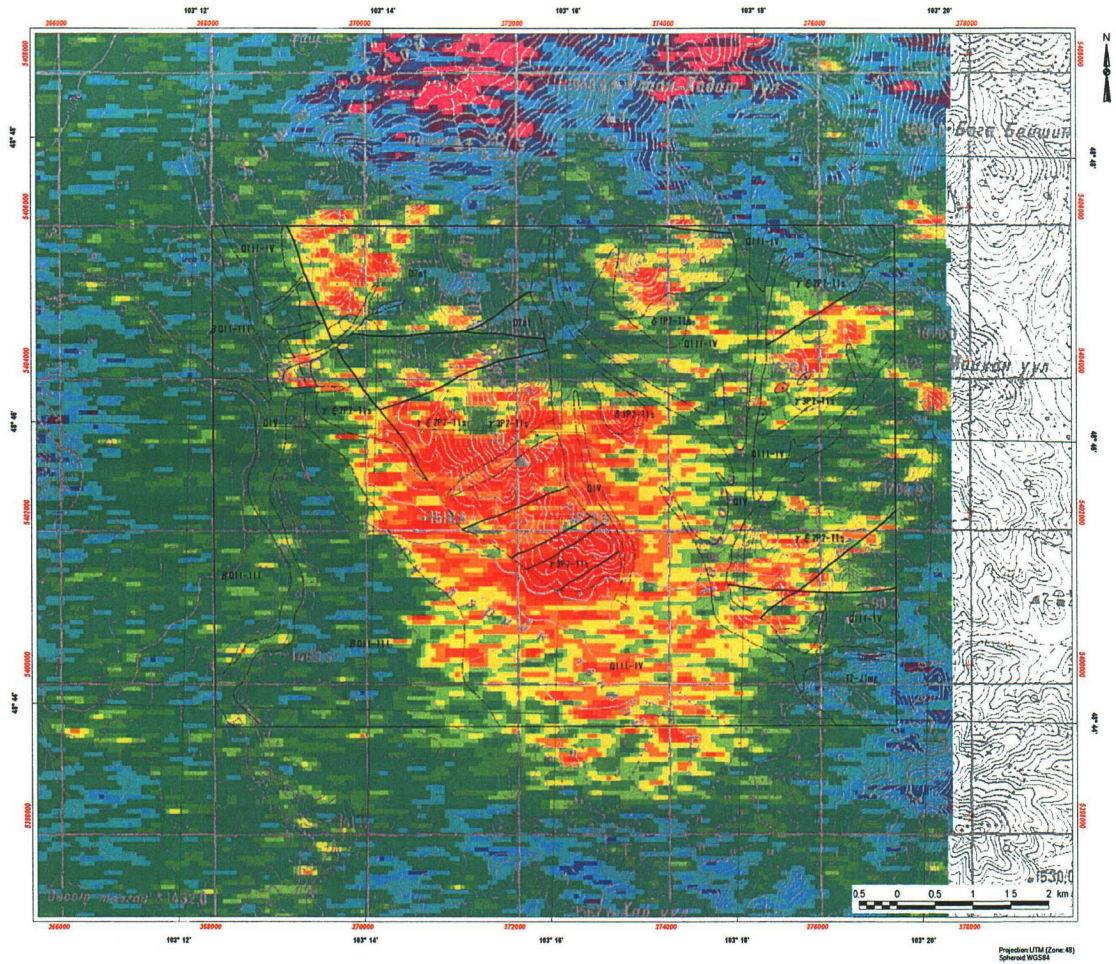


Fig. II-3-24 Total magnetic intensity of airborne survey in the Tsookher mert area



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Sedimentary Rocks							
Quaternary	<table border="0"> <tr> <td>QIV</td> <td>Recent sediments: alluvial deposits: gravels, sand, silt and clay</td> </tr> <tr> <td>QIII-IV</td> <td>Upper - Recent sediments; alluvial and colluvial deposits: gravels, sand, silt and clay</td> </tr> <tr> <td>QII-III</td> <td>Middle-upper quaternary: basalt with olivine-pyroxene.</td> </tr> </table>	QIV	Recent sediments: alluvial deposits: gravels, sand, silt and clay	QIII-IV	Upper - Recent sediments; alluvial and colluvial deposits: gravels, sand, silt and clay	QII-III	Middle-upper quaternary: basalt with olivine-pyroxene.
QIV	Recent sediments: alluvial deposits: gravels, sand, silt and clay						
QIII-IV	Upper - Recent sediments; alluvial and colluvial deposits: gravels, sand, silt and clay						
QII-III	Middle-upper quaternary: basalt with olivine-pyroxene.						
Triassic to Jurassic	T ₂ -In ₂ g	Mogod suite: volcanic rocks and dykes: microdiorite, andesite, porphyry, liparite, dacite and tuffaceous conglomerate.					
Devonian	D ₁ st	Middle series: sandstone, siltstone, andesite, dacite, it's tuff.					
Plutonic Rocks							
Permian to Triassic	<table border="0"> <tr> <td>γ SP₂-T₁s</td> <td>Selenge Complex: granite.</td> </tr> <tr> <td>γ ε SP₁-T₁s</td> <td>Selenge Complex: Lower Triassic: moderate to fine grained, granite to syenite.</td> </tr> <tr> <td>δ IP₂-T₁s</td> <td>Selenge Complex: diorite.</td> </tr> </table>	γ SP ₂ -T ₁ s	Selenge Complex: granite.	γ ε SP ₁ -T ₁ s	Selenge Complex: Lower Triassic: moderate to fine grained, granite to syenite.	δ IP ₂ -T ₁ s	Selenge Complex: diorite.
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Structure							
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Airborne survey							
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Fig. II-3-25 Radiometric potassium count of airborne geological survey in the Tsookher mert area