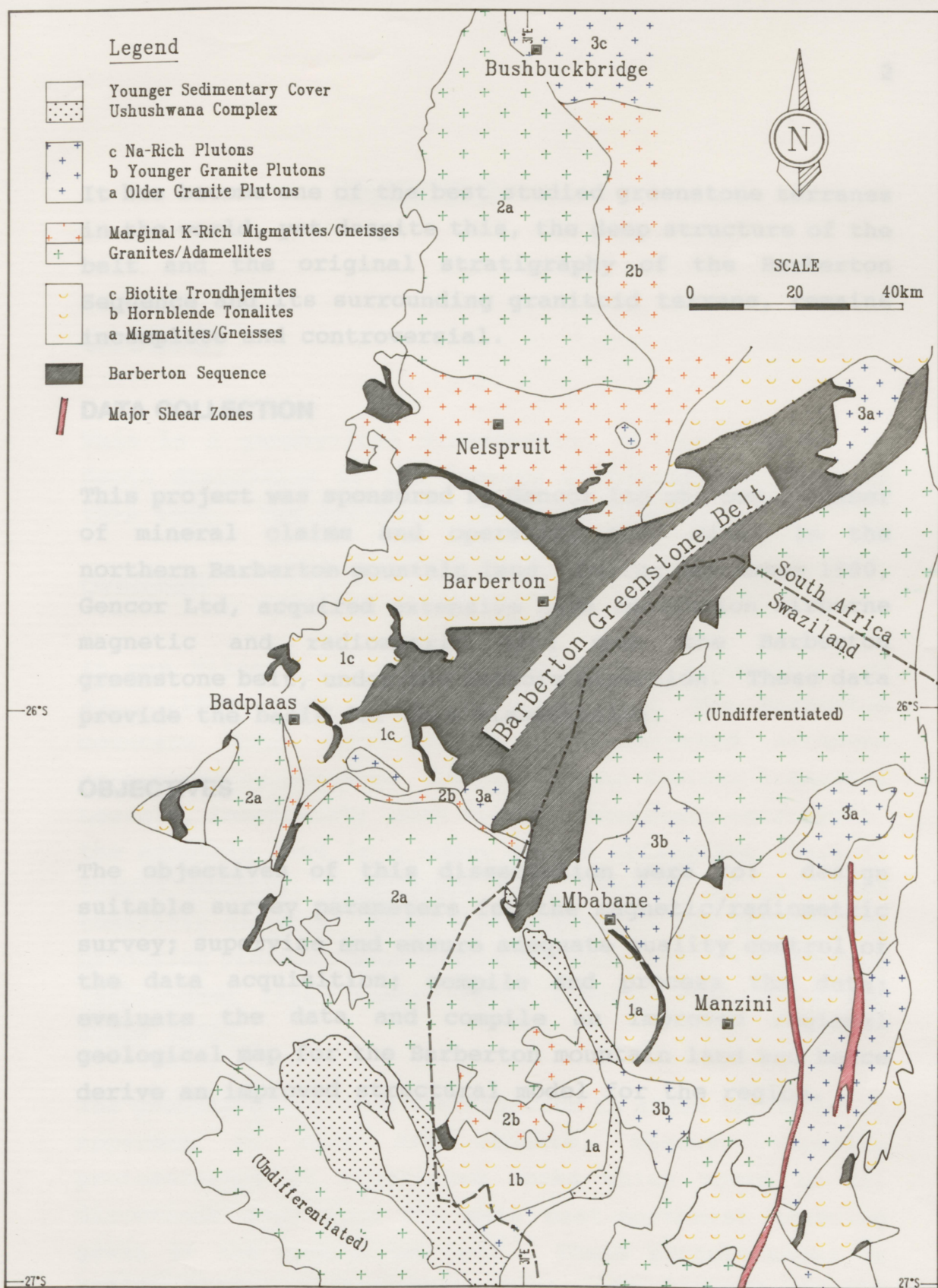


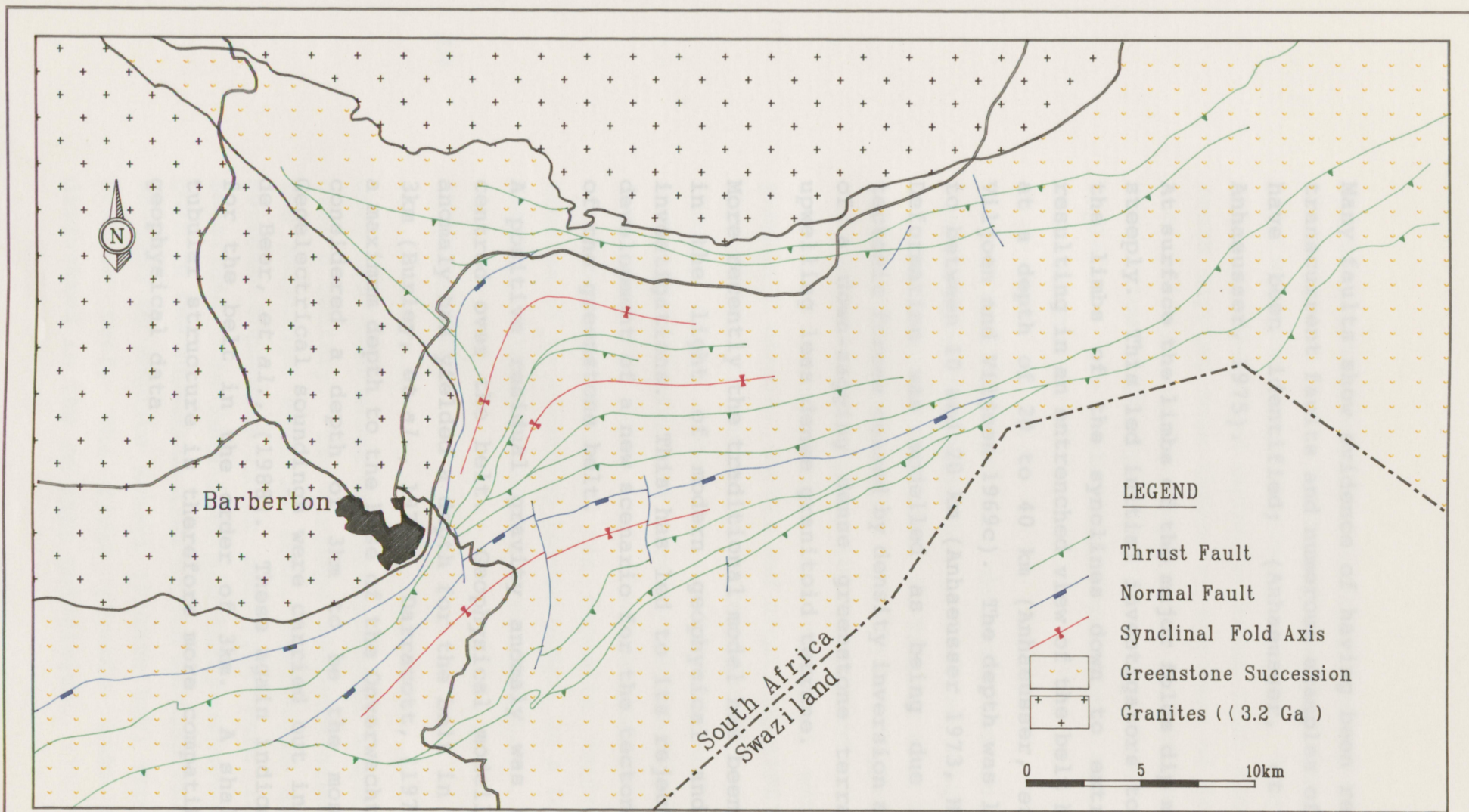


# EASTERN TRANSVAAL GRANITE - GREENSTONE DISTRIBUTION

( after Anhaeusser & Robb 1981 )

FIGURE 1





## NORTHERN BARBERTON MOUNTAIN LAND MAJOR FAULT LINEAMENTS MAP

(Source : Geological Survey Of South Africa, Sheet 2530 Barberton)

FIGURE 3



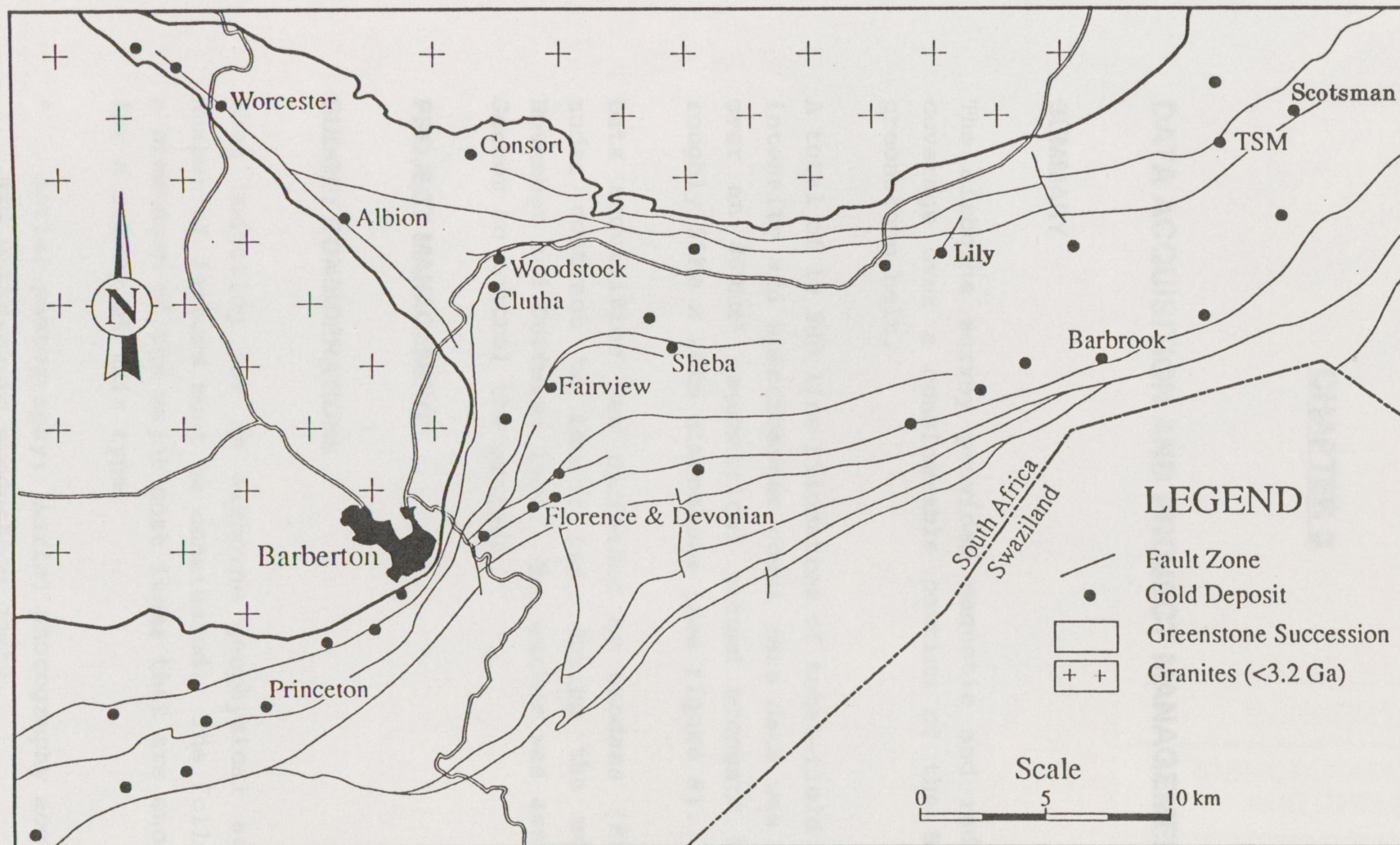


Fig 4 Northern Barberton Mountain Land Gold Deposits Distribution Map

(Source : Geological Survey Of South Africa, Sheet 2530 Barberton)



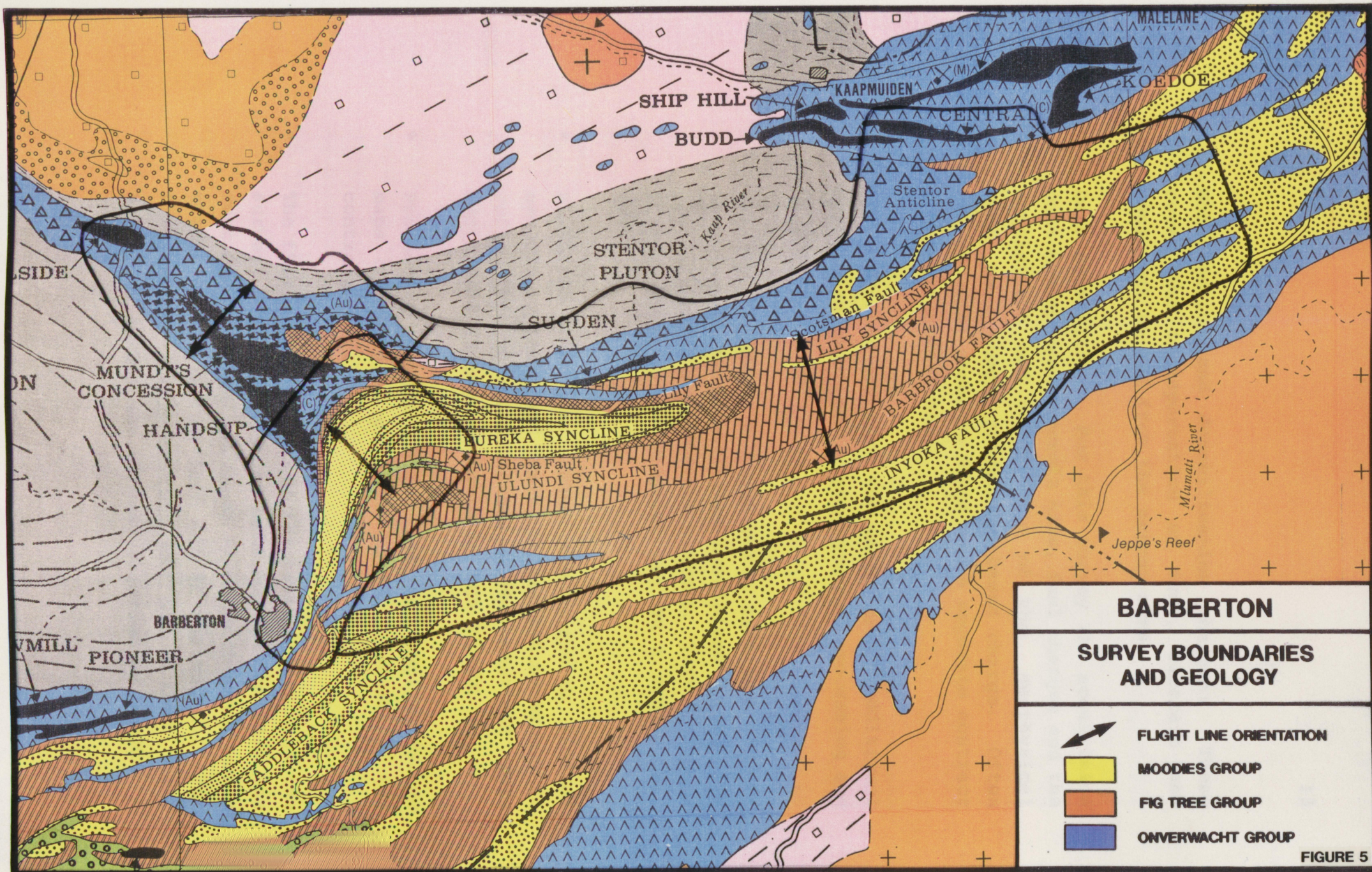
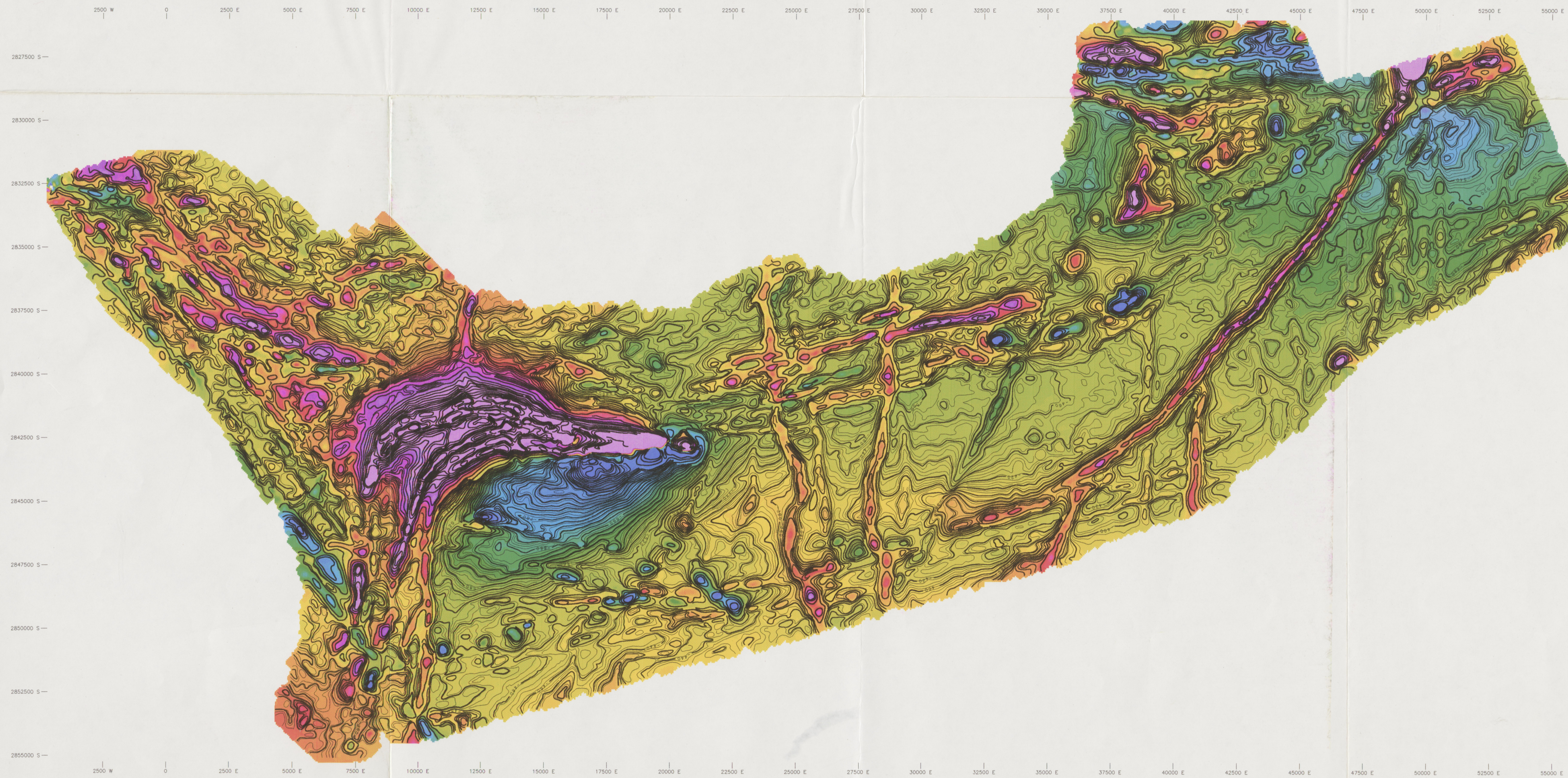


FIGURE 5



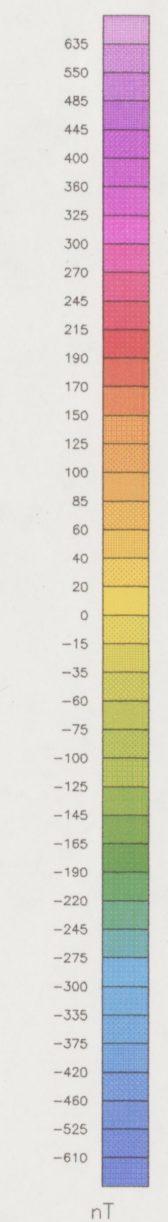
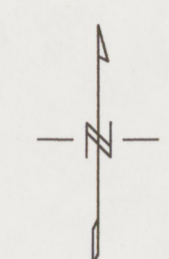


FLYING PARAMETERS :

Average Velocity - 100kph  
Flight Line Spacing - 100m  
Sample Spacing - approx. 6m  
Magnetometer - Scintrex H8 Caesium Vapour  
Nominal Height of Sensor - 40m  
Navigation - Visual, from Ortho-photography

PROCESSING SEQUENCE :

Bad Line Edit  
Non-linear Filter Spike removal  
3 pt averaging, 50% decimation  
Minimum Curvature Gridding - 50m cell size, 150m anti-alias filter  
Low-Pass Cosine roll-off filter  
Decorrelation - Directional Cosine plus Butterworth  
Hanning Filter  
Merging of individual Grids  
IGRF Removal



CONTOUR INTERVAL : 5nT

5nT contour  
20nT contour  
100nT contour

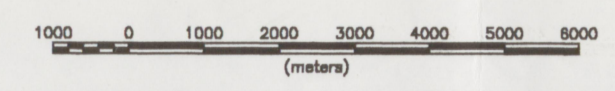
# BARBERTON

RESIDUAL MAGNETIC FIELD  
CONTOUR MAP

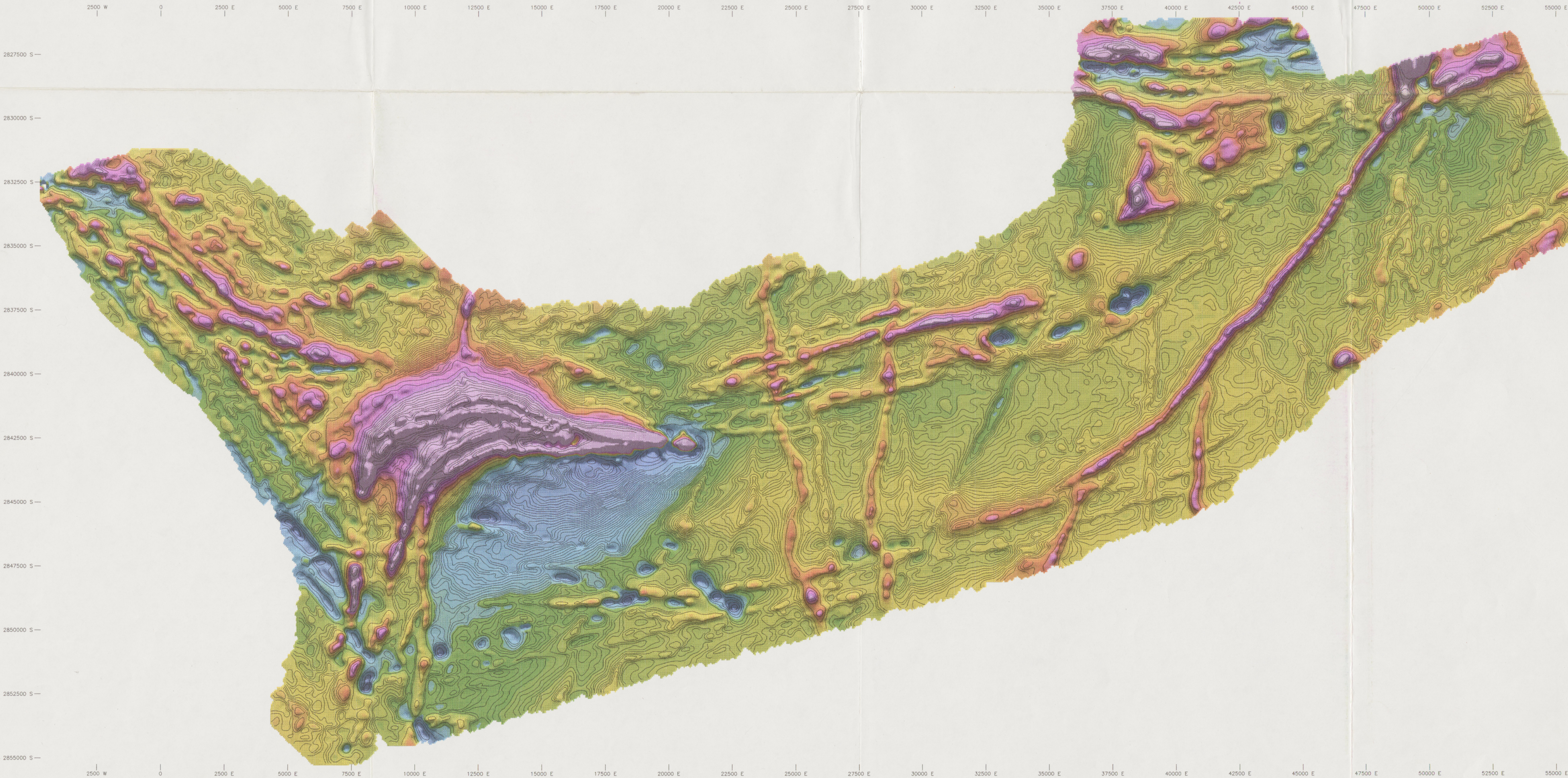
C. B. Moore      Date: Oct 1993      Plan No. 2

M.Sc Thesis

LO Projection - Central Meridian 31deg

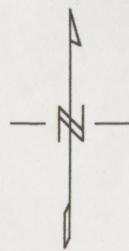






FLYING PARAMETERS :  
Average Velocity - 100kph  
Flight Line Spacing - 100m  
Sample Spacing - approx. 6m  
Magnetometer - Scintrex H8 Caesium Vapour  
Nominal Height of Sensor - 40m  
Navigation - Visual, from Ortho-photography

PROCESSING SEQUENCE :  
Bad Line Edit  
Non-linear Filter Spike removal  
3 pt averaging, 50% declination  
Minimum Curvature Gridding - 50m cell size, 150m anti-alias filter  
Low-Pass Cosine roll-off filter  
First Vertical Derivative  
Upward Continuation - 30m  
Decorrelation - Directional Cosine plus Butterworth  
Hanning Filter  
Merging of individual Grids  
IGRF Removal  
Artificial Sun-Shading - inc=45deg dec=0deg



# BARBERTON

RESIDUAL MAGNETIC FIELD  
CONTOURED RELIEF MAP

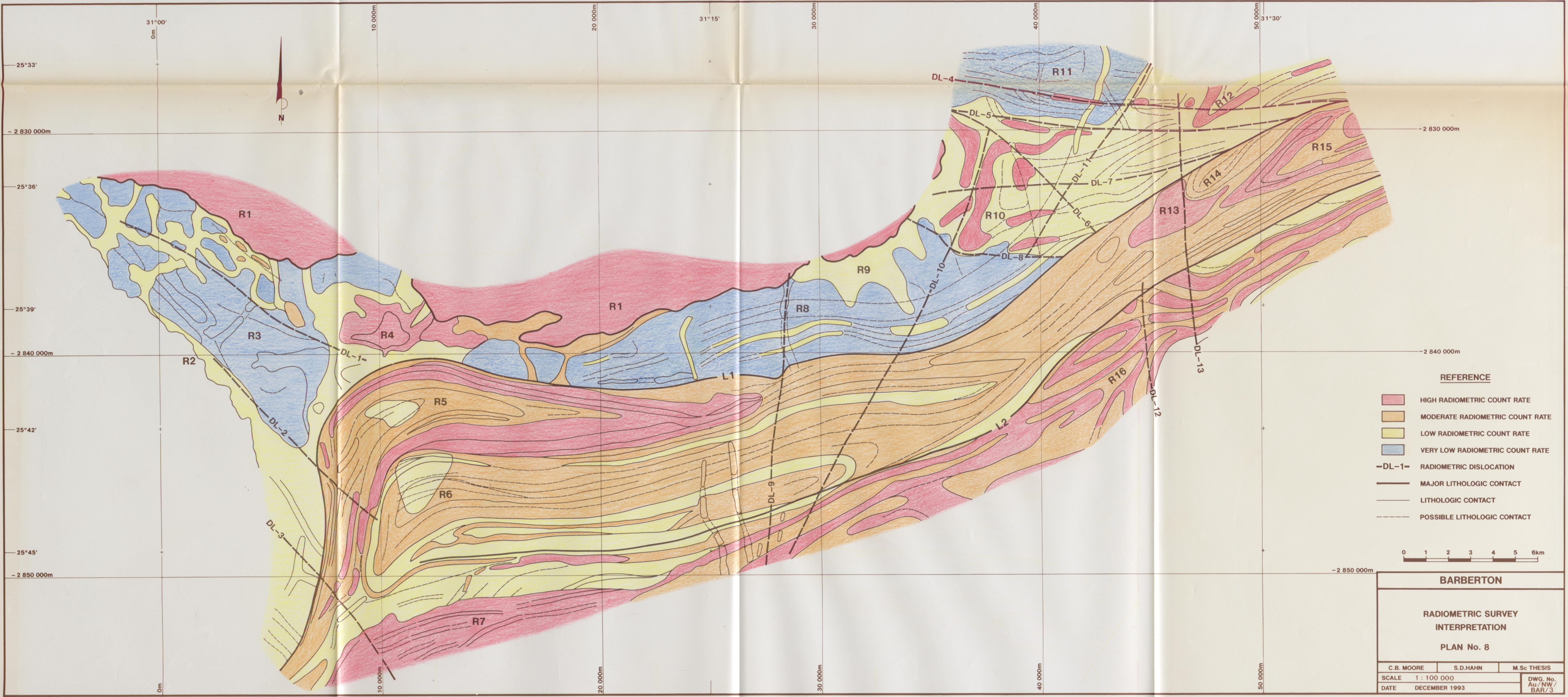
C. B. Moore Date: Oct 1993 Plan No. 3

M.Sc Thesis

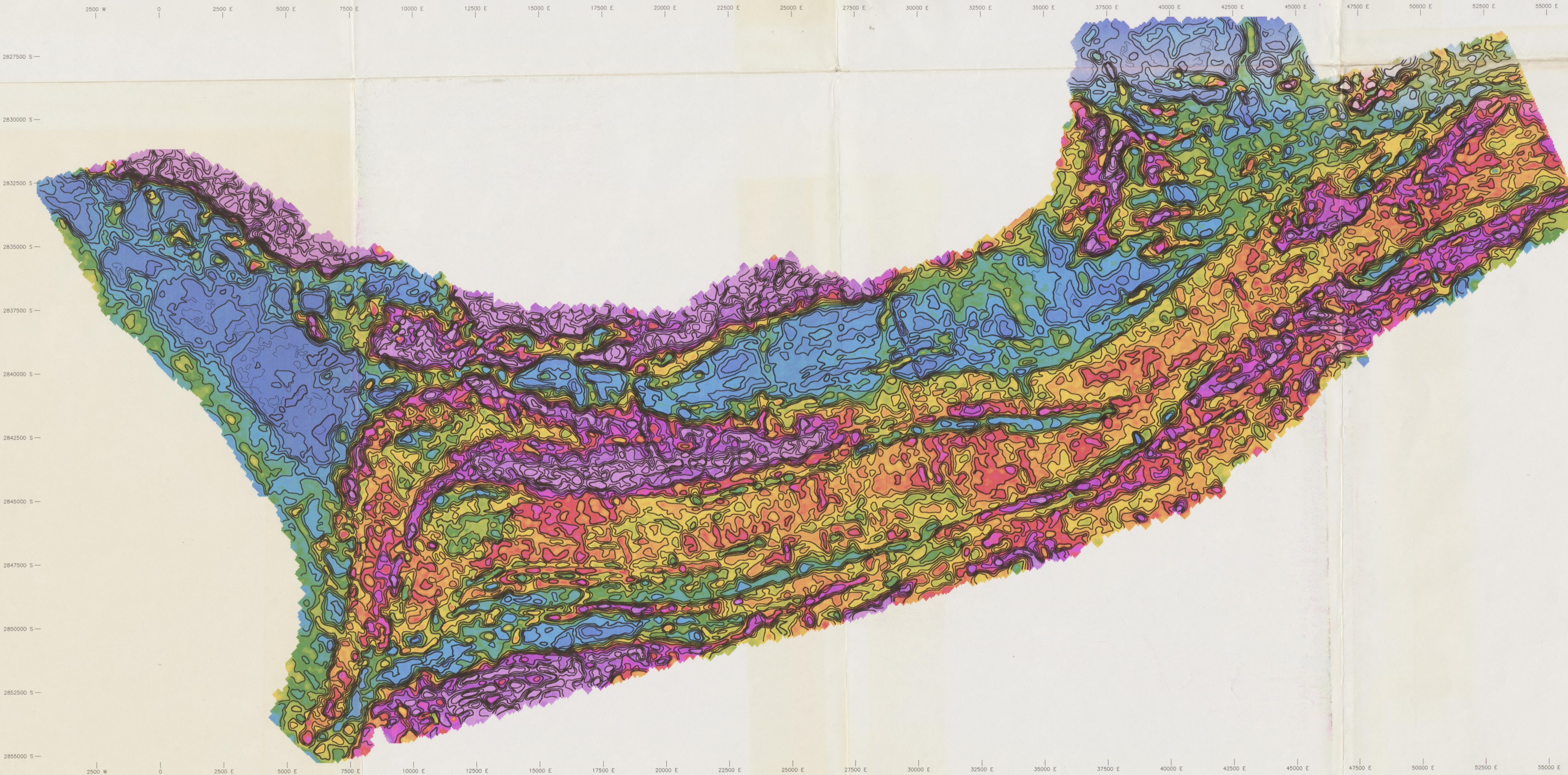










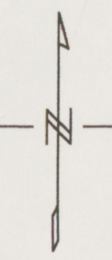
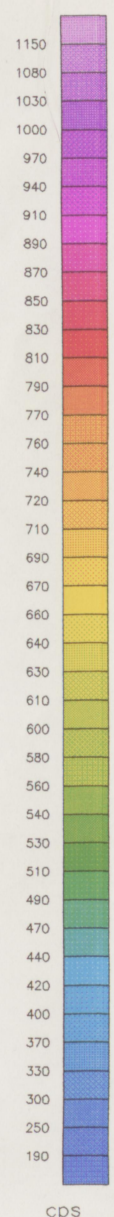


FLYING PARAMETERS :

Average Velocity - 100kph  
Flight Line Spacing - 100m  
Sample Spacing - approx. 6m  
Spectrometer - Geometrics GR800, 256 channels  
Sensor - DET-1024 cubic inch NaI crystal pack  
Nominal Height of Sensor - 70m  
Navigation - Visual, from Ortho-photography

PROCESSING SEQUENCE :

Bad Line Edit  
Non-linear Filter Spike removal  
Minimum Curvature Gridding - 50m cell size, 150m anti-alias filter  
Decorrelation - Directional Cosine plus Butterworth  
Hanning Filter  
Merging of individual Grids



CONTOUR INTERVAL : 10cps

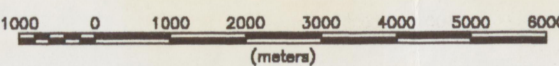
10cps contour  
50cps contour  
200cps contour

# BARBERTON

RADIOMETRIC TOTAL-COUNT  
CONTOUR MAP

C. B. Moore    Date: Oct 1993    Plan No. 7

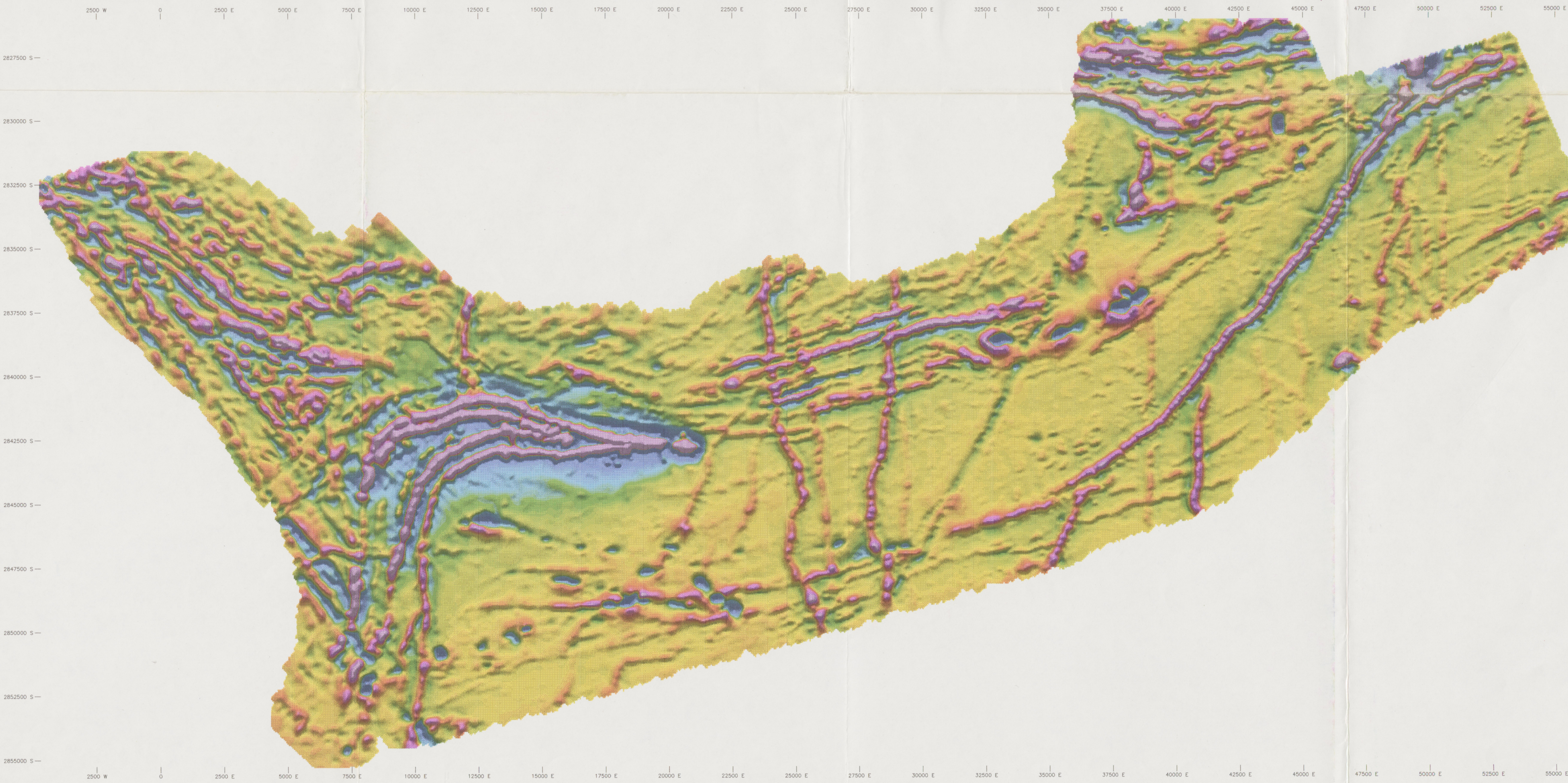
M.Sc Thesis









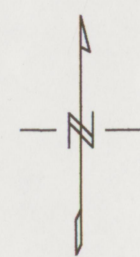


FLYING PARAMETERS :

Average Velocity - 100kph  
Flight Line Spacing - 100m  
Sample Spacing - approx. 6m  
Magnetometer - Schlumberger HB Caesium Vapour  
Nominal Height of Sensor - 40m  
Navigation - Visual, from Ortho-photography

PROCESSING SEQUENCE :

Bad Line Edit  
Non-linear Filter Spike removal  
3 pt averaging, 50% decimation  
Minimum Curvature Gridding - 50m cell size, 150m anti-alias filter  
Low-Pass Cosine roll-off filter  
First Vertical Derivative  
Upward Continuation - 30m  
Decorrelation - Directional Cosine plus Butterworth  
Hanning Filter  
Merging of individual Grids  
Artificial Sun-Shading - inc=45deg dec=0deg



# BARBERTON

MAGNETIC 1ST VERTICAL DERIVATIVE  
SHADED RELIEF MAP

C. B. Moore    Date: Oct 1993    Plan No. 4

M.Sc Thesis

LO Projection - Central Meridian 31deg

