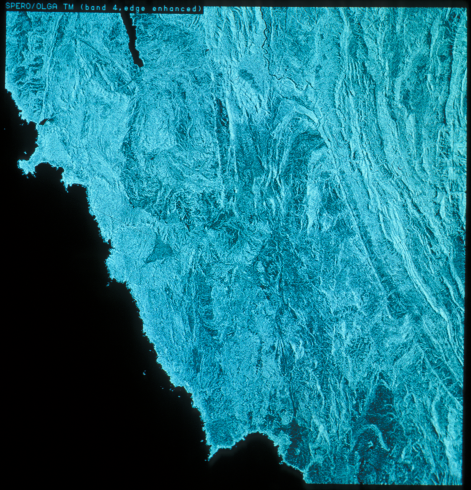
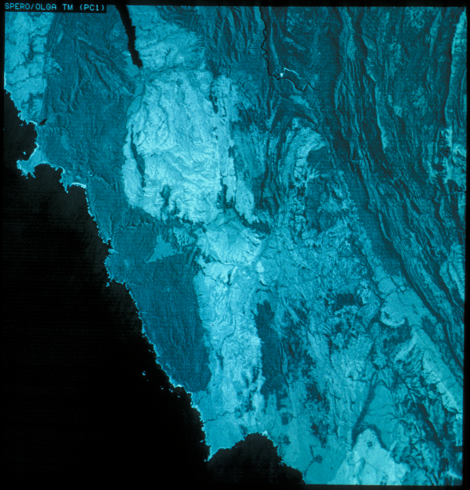
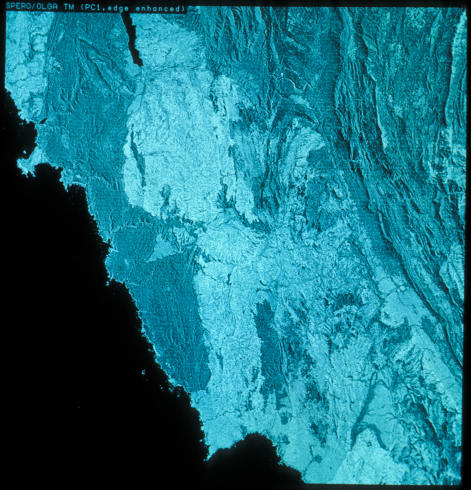
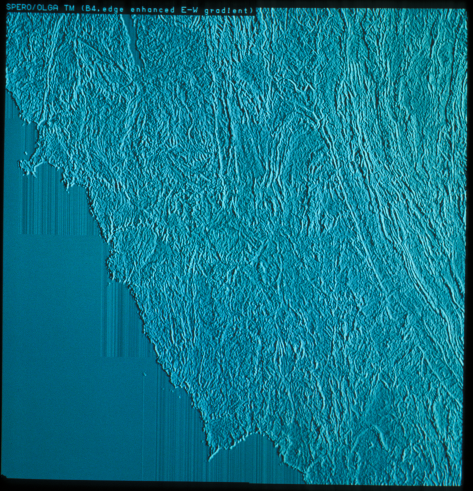

SPERO/OLGA TM (band 4,edge enhanced)

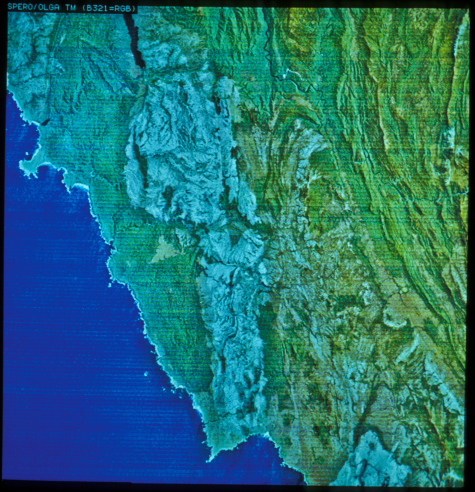

SPERO/OLGA TM (PC1)

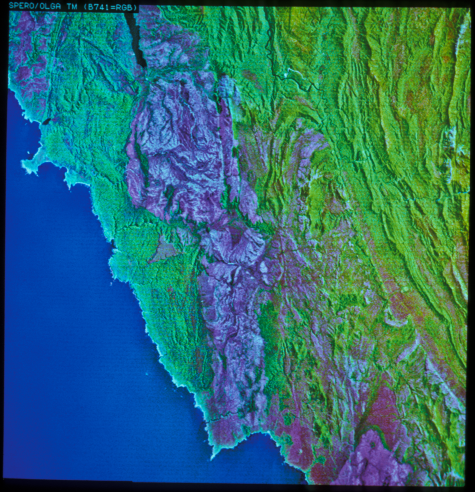

SPERO/OLGA TM (PCI.edge enhanced)

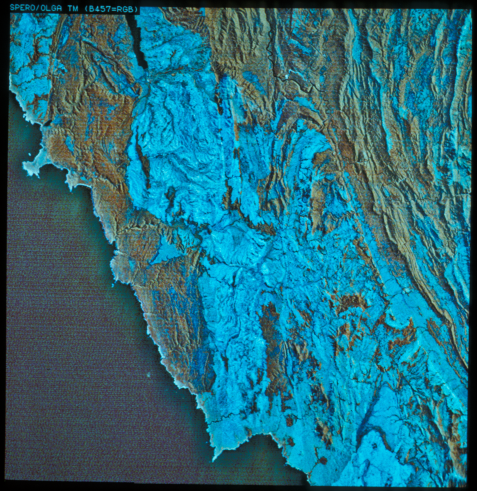

SPERO/OLGA TM (B4,edge enhanced NW-SE gradient)

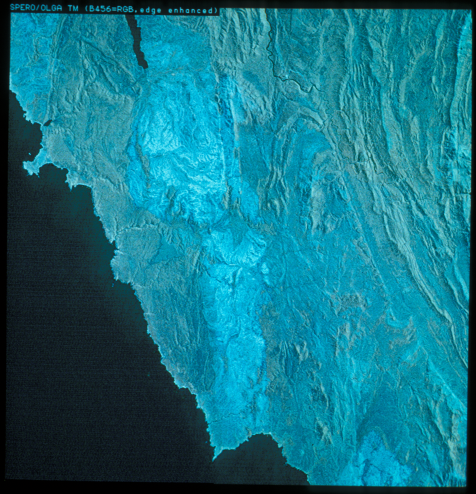

SPERO/OLGA TM (B4,edge enhanced NE-SW gradient)

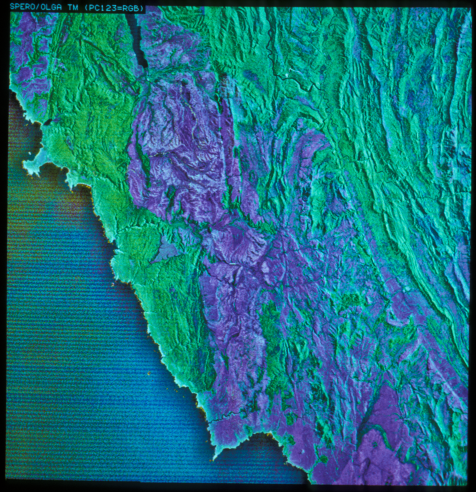

SPERO/OLGA TM (B4,edge enhanced E-W gradient)

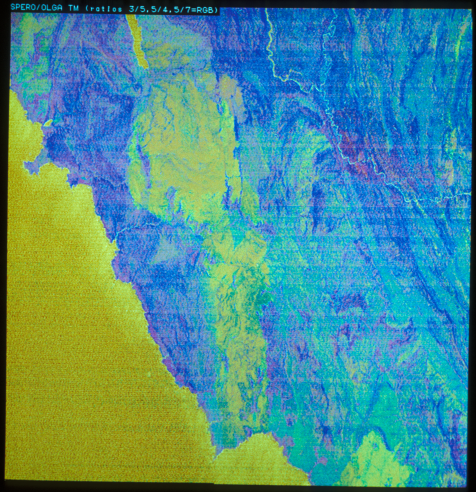

SPERO/OLGA TM (B321=RGB)

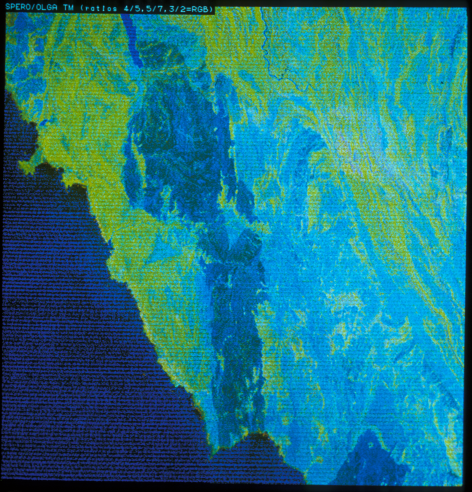

SPERO/OLGA TM (5741=RGB)

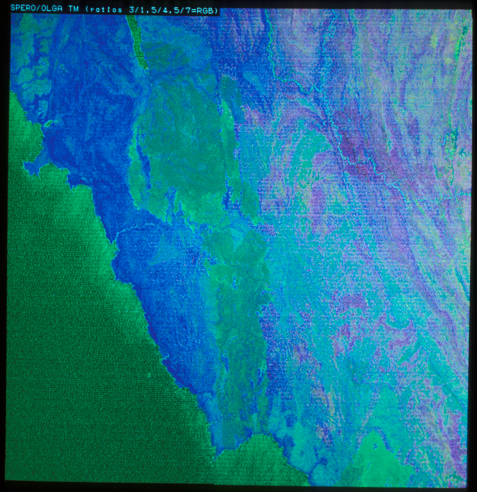

SPERO/OLGA TM (B457=RGB)

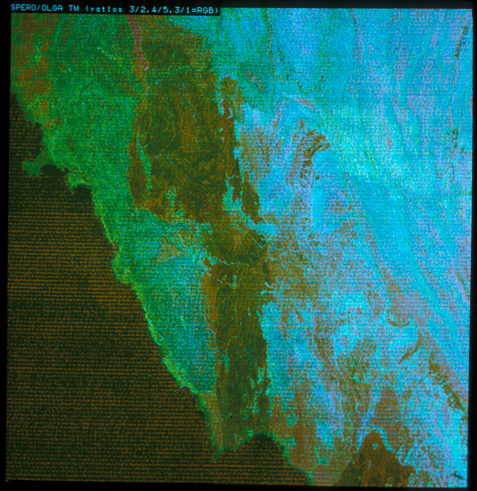

SPERO/OLGA TM (B456=RGB.edge enhanced)


SPERO/OLGA TM (PC123=RGB)


SPERO/OLGA TM (ratios 3/5,5/4,5/7=RGB)


SPERO/OLGA TM (ratios 4/5,5/7,3/2=RGB)


SPERO/OLGA TM (ratios 3/1,5/4,5/7=RGB)


SPERO/OLGA TM (ratios 3/2,4/5,3/1=RGB)

TOR 01-4587
Vol 2 of 2
C77018

2. AIRBORNE MAGNETIC DATA

Arthur River

Hellyer

Forth/Mersey

Pieman

Sophia

Cape Sorrell/Franklin

Spero/Olga

MICROFILMED
FICHE No. -

MINERAL RESOURCES
16 AUG 2001
TASMANIA

CENTRE

677019

ARTHUR RIVER 1:100,000 SHEET

Enhancement descriptions for airborne magnetics. NOTE: all processing was performed on the log of the raw nanoTeslar values to reduce the severity of skewness in frequency distribution.

Slide 1 : Greyscale, raw magnetics with histogram-normalised stretch and 0.1% clip.

Slide 2 : Greyscale, decorrugated magnetics with histogram-normalised stretch and 0.1% clip.

Slide 3 : Greyscale, decorrugated, 0.1% clip with space variant contrast stretch - a non-linear local enhancement (analogous to AGC) to accentuate subtle detail in areas of low amplitude.

Slide 4 : Greyscale, decorrugated, 0.1% clip with a first derivative approximation (E-W gradient) performed by convolving the image with a directional edge detecting template.

Slide 5 : Greyscale, decorrugated, 0.1% clip with a high pass frequency filter with a 10km cutoff. High frequency magnetic anomalies usually caused by shallow magnetic rocks are highlighted.

Slide 6 : Greyscale, decorrugated, 0.1% clip shadowgram with NW illumination and 30^0 sun elevation.

Slide 7 : Greyscale, decorrugated, 0.1% clip shadowgram with NE illumination and 30^0 sun elevation.

Slide 8 : Pseudocoloured, raw magnetics with 0.1% clip linear contrast stretch.

Slide 9 : Pseudocoloured raw magnetics with histogram-normalised contrast stretch.

Slide 10: Pseudocoloured, decorrugated, 0.1% clip with upward continuation to 1,000 metres. This filter has the effect of simulating measurements taken 1,000 metres above ground level. The result is to attenuate anomalies and is more pronounced for high than low frequency anomalies.

Slide 11: Pseudocoloured, decorrugated, 0.1% clip with downward continuation to 50 metres. This filter simulates measurements taken 50 metres above ground level. It has more influence on high than low frequency components and effectively sharpens their appearance.

Slide 12: Pseudocoloured, decorrugated, 0.1% clip shadowgram with NW illumination and 30^0 sun elevation.

Slide 13: Pseudocoloured, decorrugated, 0.1% clip shadowgram with N illumination and 30^0 sun elevation.

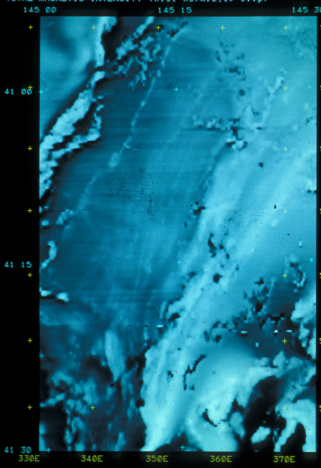
Slide 14: Pseudocoloured, decorrugated, 0.1% clip shadowgram with NE illumination and 30^0 sun elevation.

677620

Slide 15: Pseudocoloured, 0.1% clip shadowgram with E illumination and 30^0 sun elevation.

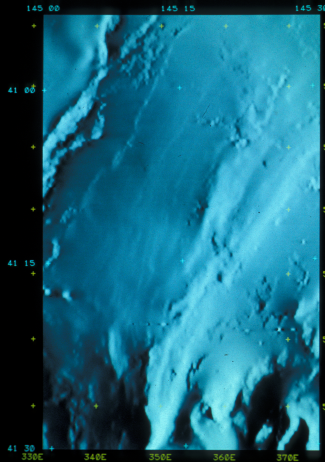
ARTHUR RIVER 1:100,000 SHEET

TOTAL MAGNETIC INTENSITY (hist'norm,0,1f clip)



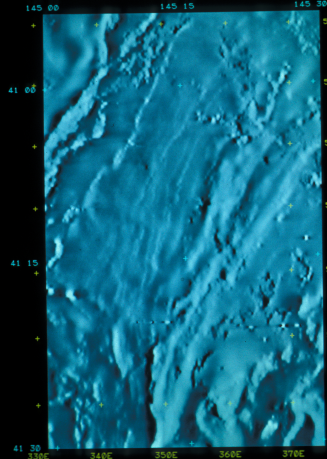
ARTHUR RIVER 1:100,000 SHEET

TOTAL MAGNETIC INTENSITY (decorr.hist'norm,0.1f clip)



ARTHUR RIVER 1:100,000 SHEET

TOTAL MAGNETIC INTENSITY (dacorr.0.1f clip.SVCS)



ARTHUR RIVER 1:100,000 SHEET

TOTAL MAGNETIC INTENSITY (decorr.FDA E-W gradient)

