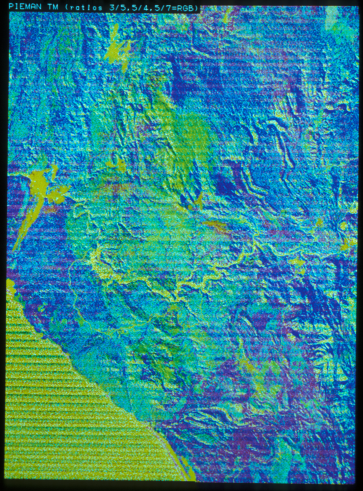
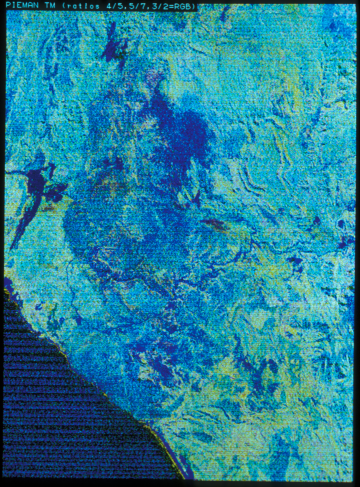
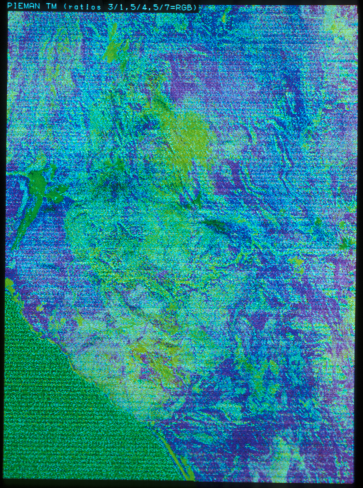
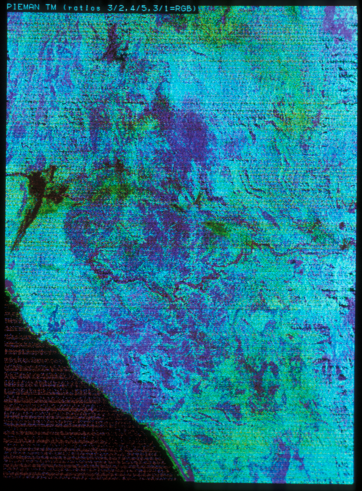

PIEMAN TM (ratios 3/5,5/4,5/7=RGB)


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


PIEMAN TM (ratios 3/1.5/4.5/7=RGB)


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

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SOPHIA 1:100,000 SHEET

Thematic mapper enhancement descriptions :

Slide 1: Band 4 with histogram - normalised contrast stretch.

Slide 2: Band 4 with high pass spatial filter then piecewise contrast stretch - a non-directional edge enhancement.

Slide 3: First principal component with histogram - normalised contrast stretch.

Slide 4: First principal component with high pass spatial filter followed by piecewise contrast stretch - a non-directional edge enhancement.

Slide 5: Band 4 with edge enhancing convolution to highlight NW-SE trending features.

Slide 6: Band 4 with edge enhancing convolution to highlight NE-SW trending features.

Slide 7: Band 4 with edge enhancing convolution to highlight E-W trending features.

Slide 8: Simulated true colour composite image combining bands 3, 2, 1 as red, green, black with a histogram-normalised contrast stretch followed by a space variant contrast stretch.

Slide 9: False colour composite image featuring bands 7, 4, 1 as red, green, blue; contrast stretch as for slide 8.

Slide 10: False colour composite image featuring bands 4, 5, 7 as red, green, blue; contrast stretch as for slide 8.

Slide 11: False colour composite image (bands 4, 5, 6 = R, G, B histogram - normalised) added to edge-enhanced band 4 image.

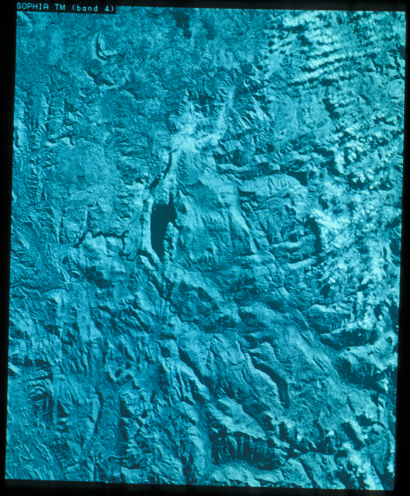
Slide 12: False colour composite image produced by combining first, second and third principal components as red, green and blue and with a space variant contrast stretch.

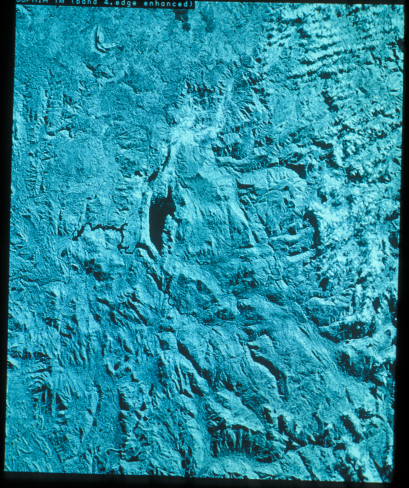
Slide 13: False colour composite ratio image of 3/5, 5/4 and 5/7 as red, green and blue, histogram - normalised.

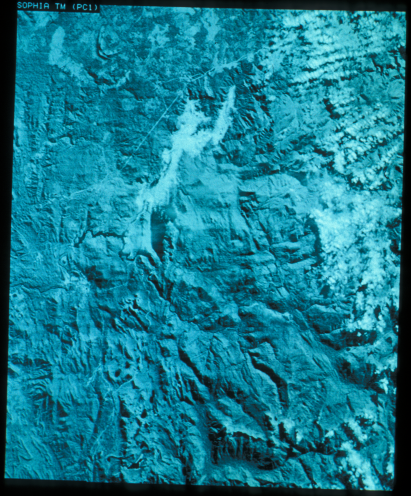
Slide 14: As for slide 13 but with 4/5, 5/7, 3/2 as red, green and blue.

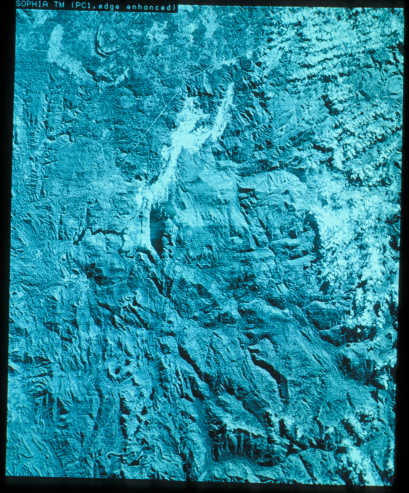
Slide 15: As for slide 13 but with 3/1, 5/4, 5/7 as red, green and blue.

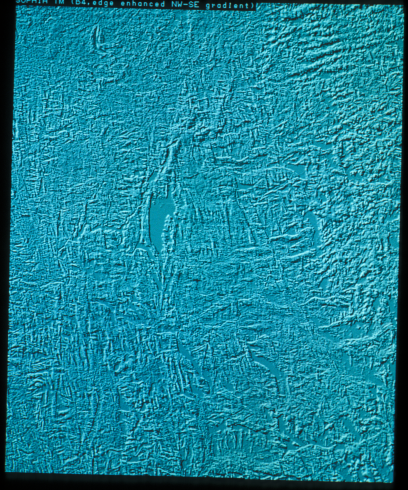
Slide 16: As for slide 13 but with 3/2, 4/5, 3/1 as red, green and blue.

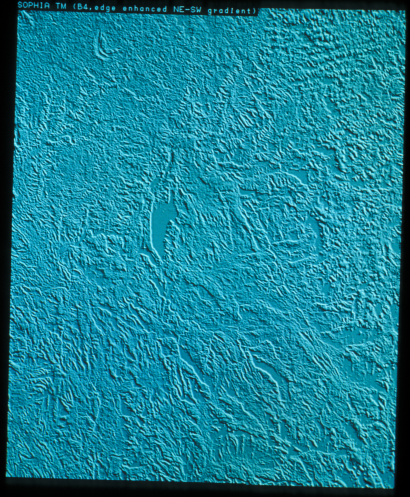

SOPHIA TM (band 4)


SOPHIA TM (band 4,edge enhanced)

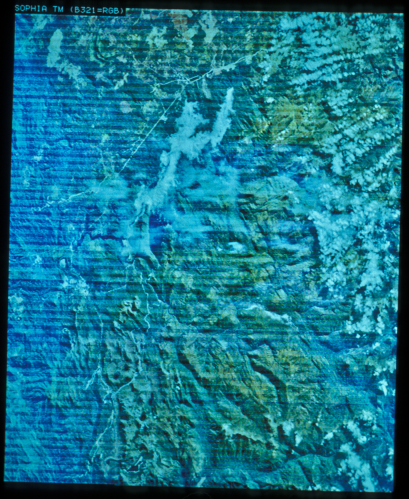

SOPHIA TM (PCI)

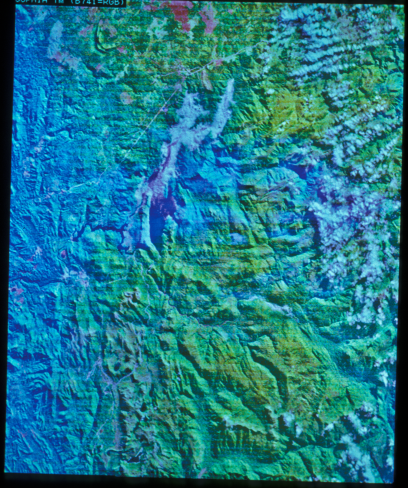

SOPHIA TM (PC1,edge enhanced)

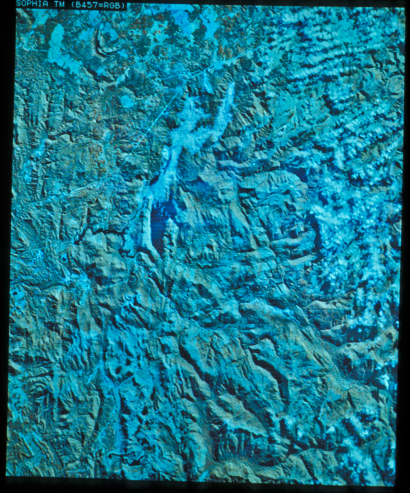

SOPHIA TM (B4.edge enhanced NW-SE gradient)

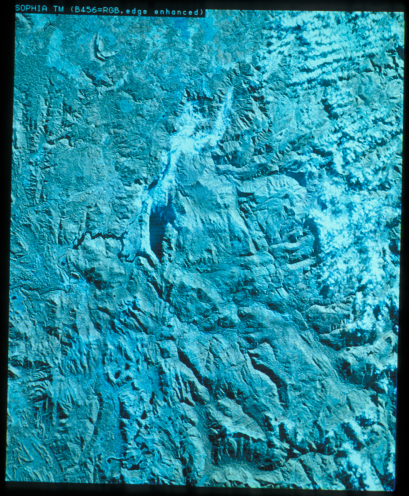

SOPHIA TM (B4,edge enhanced NE-SW gradient)

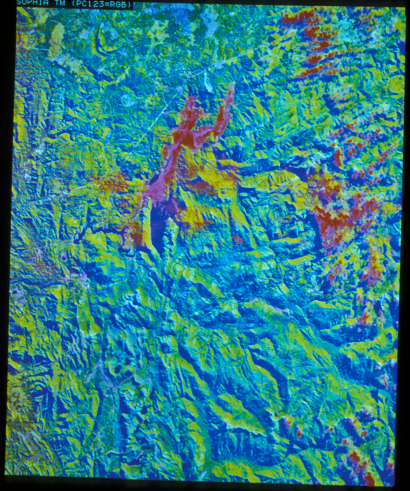

SOPHIA TM (B4,edge enhanced E-W gradient)

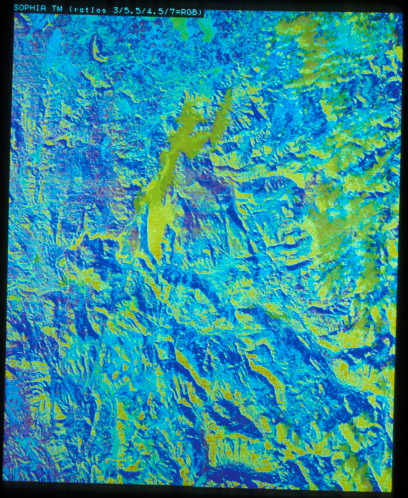

SOPHIA TM (B321=RGB)

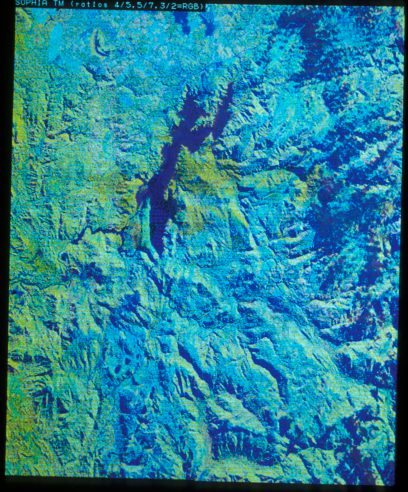

SOPHIA TM (B7,4,1=RGB)

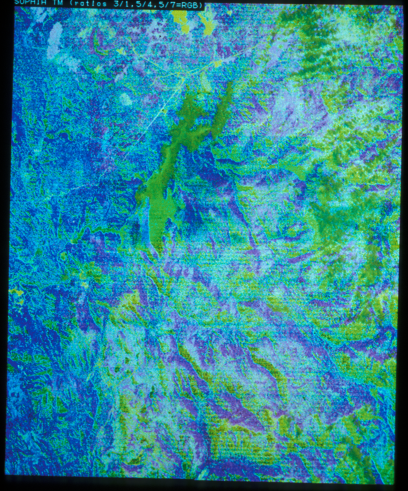

SOPHIA TM (B457=RGB)


SOPHIA TM (5456=RGB,edge enhanced)


SOPHIA TM (PC123=RGB)


SOPHIA TM (ratios 3/5.5/4.5/7=RGB)


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


SOPHIA TM (ratios 3/1.5/4.5/7=RGB)