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677001

IMAGE ENHANCEMENTS OF GEOPHYSICAL AND SATELLITE DATA FROM NORTH-WEST TASMANIA FOR PASMINCO EXPLORATION LTD

MINERAL RESOURCES
16 AUG 2001
TASMANIA

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OPEN FILE

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JANUARY 1991

677002

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IMAGE ENHANCEMENTS OF DATA FROM NORTH-WEST TASMANIA

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   15 enhancements of the seven areas

2. AIRBORNE MAGNETIC DATA
   15 enhancements of the seven areas

3. GRAVITY DATA
   6 enhancements of the seven areas

4. RADIOMETRIC DATA
   5 enhancements of the Spero/Olga area only

The seven areas relate to the 1:100,000 sheets in north-western Tasmania :

1. Arthur River
2. Hellyer
3. Forth/Mersey
4. Pieman
5. Sophia
6. Cape Sorell/Franklin
7. Spero/Olga

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1. THEMATIC MAPPER DATA

Arthur River

Hellyer

Forth/Mersey

Pieman

Sophia

Cape Sorrell/Franklin

Spero/Olga

677004

ARTHUR RIVER 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: Second principal component with histogram - normalised contrast stretch.

Slide 4: Second 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 NE-SW trending features.

Slide 6: Band 4 with edge enhancing convolution to highlight NW-SE trending features.

Slide 7: Band 4 with edge enhancing convolution to highlight N-S 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, 6 as red, green, blue; contrast stretch as for slide 8.

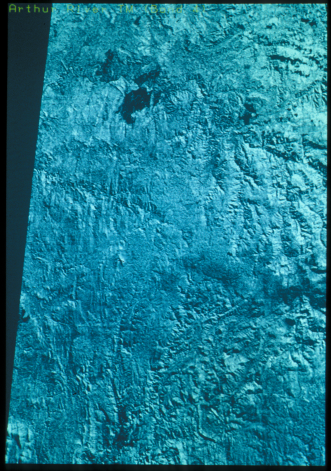
Slide 11: False colour composite image (bands 4, 5, 6 = R, G, B histogram - normalised) added to edge-enhanced band 4 image.

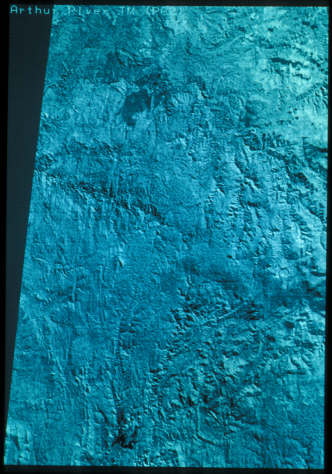
Slide 12: False colour composite image produced by combining first, second and third principal components as red, green and blue and with a space variant contrast stretch.

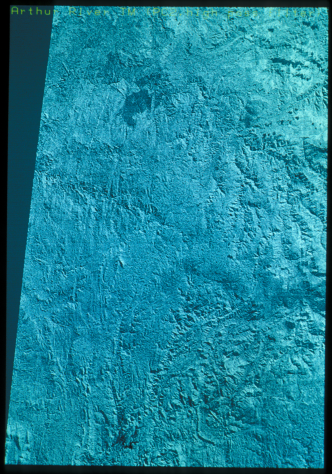
Slide 13: False colour composite ratio image of 3/5, 5/4 and 5/7 as red, green and blue, histogram - normalised.

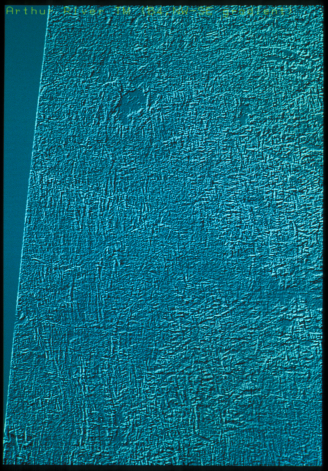
Slide 14: As for slide 13 but with 3/1, 5/4, 5/7 as red, green and blue.

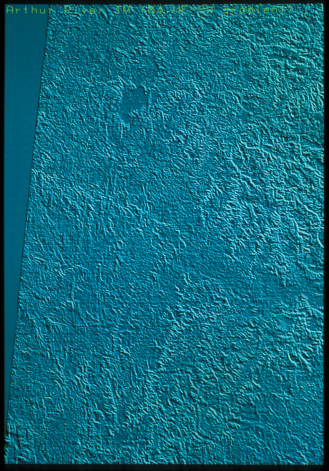
Slide 15: As for slide 13 but with 4/5, 5/7, 3/2 as red, green and blue.

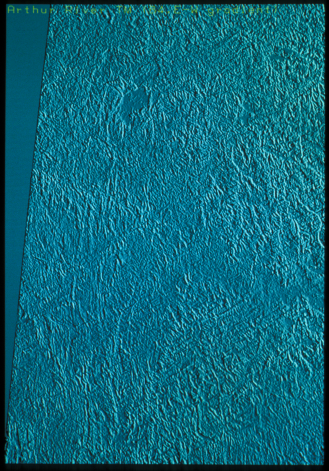


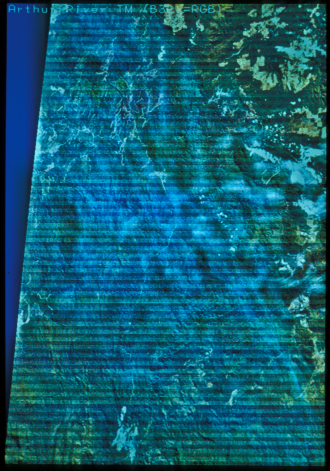

Arthur River TM (PC)



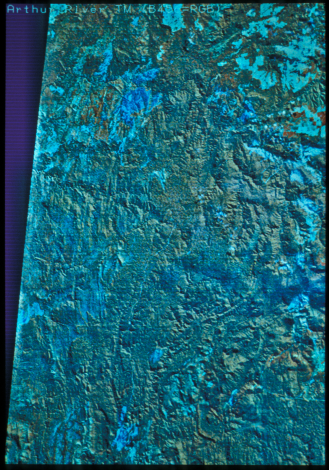


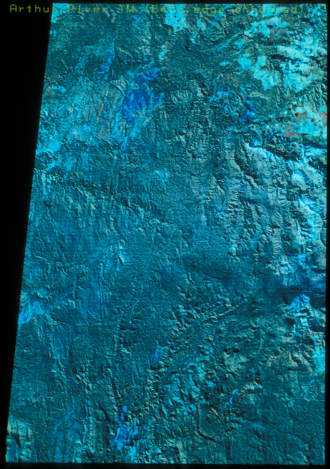


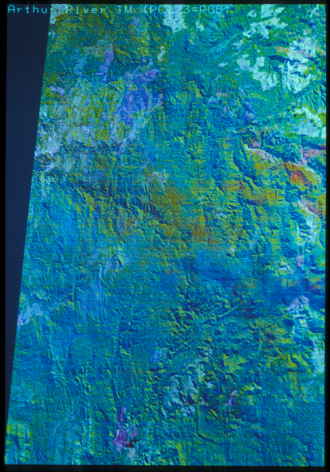


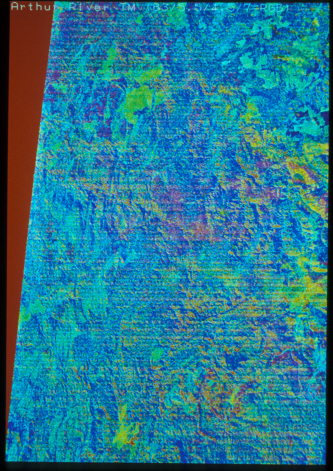

Arthur River TM (B321=RGB)

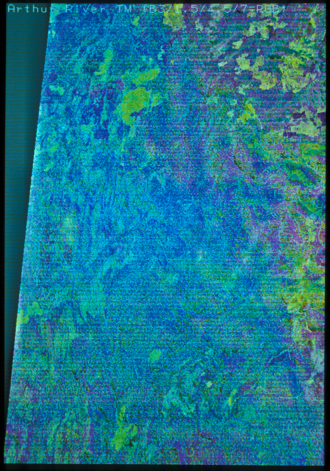

Arthur River SM XB7 - RGB

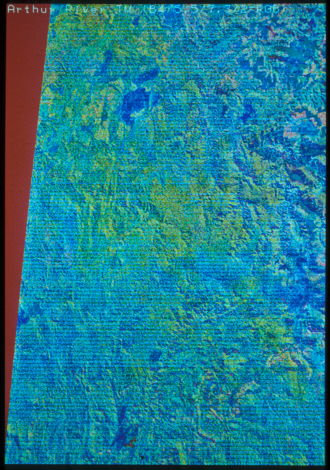





Arthur River TM (PC) 3=P65


Arthur River TM 1837 5/4 5/7 RGB1


Arthur River TM FCC 7-5-2 7=RGB



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HELLYER 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 NE-SW trending features.

Slide 6: Band 4 with edge enhancing convolution to highlight NW-SE 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.

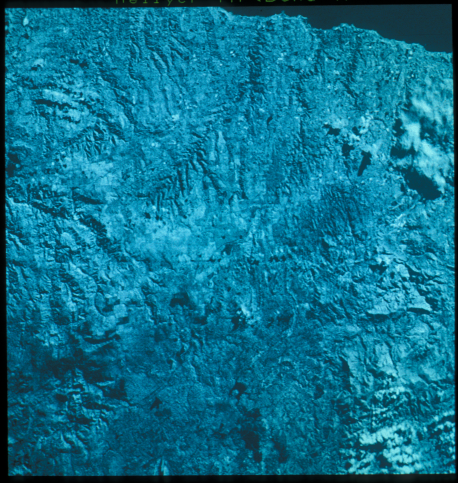
Slide 11: False colour composite image (bands 4, 5, 7 = R, G, B histogram - normalised) added to edge-enhanced band 4 image.

Slide 12: False colour composite image produced by combining first, second and third principal components as red, green and blue.

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

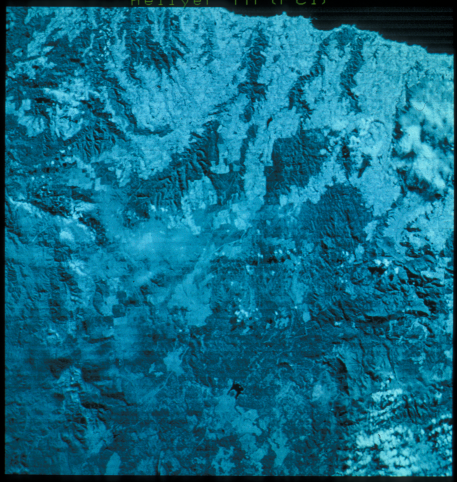
Slide 14: As for slide 13 but with 4/5, 5/7, 3/2 as red, green and blue.

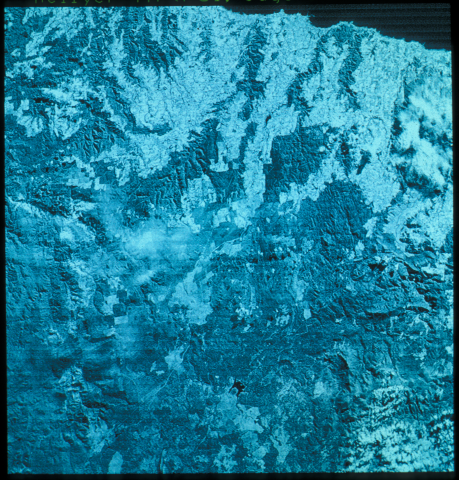
Slide 15: As for slide 13 but with 3/1, 5/4, 5/7 as red, green and blue.

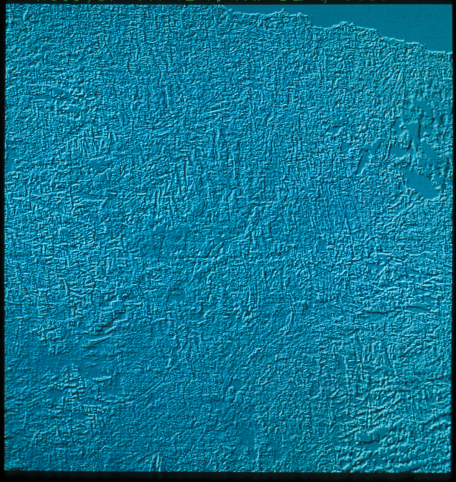

Hellyer TM (Band 4)

Hellyer TM (Band 4, edge enhanced)




Hellyer TM (PC1)


Hellyer TM (PC1, edge enhanced)


Hellver TM (B4, NW-SE gradient)

Hellver TM (B4, NE-SW gradient)

