



## Canada's Natural Resources

**MIRAGE** – James Rupert

9 August 2004



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada



# MIRAGE - Today



- **MIRAGE - Map Image Rendering DAtabase for Geoscience**
- **April 2003, CCGK**
- **Jamie Rupert, Project Leader**
- **> 2400 maps, few geo-referenced**
- **Viewing and download**
- **Shares metadata with GEOSCAN**



## MIRAGE - Process



- Paper copy scanned, TIFF, 300 DPI
- TIFF converted to MrSid image
- TIFF converted to a Fast Web View PDF
- Images registered in database, immediately available on-line
- Almost completely automated



# MIRAGE - Technology



- **MrSid**
  - High compression ratio
  - Indexed image for very fast decompression of portion of image
  - Support in most software
- **PostgreSQL database**
  - Spatial
- **PHP**
- **Mapserver**
- **Acrobat**
  - Fast Web View



## MIRAGE - Future



- > 4000 maps by March 2005
- Tie GEOSCAN – Mirage directly
- Process for new maps
- Process for book stores to print
- Neat line and geo-reference - SDE



# MIRAGE



MIRAGE Database Search - Microsoft Internet Explorer

http://www.nrc.ca/nrc/gc.ca/mirage/mirage\_search\_a.php

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## MIRAGE

Map Image Rendering Database for GEoscience  
MIRAGE Database Search

Number:

Series:

Year:

Author:


Title:

Subject:

Location: Longitude  Latitude   
or  
NTS sheet number  eg. 50H or 31G5

To list all available images, click on the Submit Search button without entering any criteria.

[Click here to view and search an image of available maps.](#)



2004-07-24 [ImageMap Index](#)

MIRAGE Search Results - Microsoft Internet Explorer

http://www.nrc.ca/nrc/gc.ca/mirage/mirage\_results\_a.php

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Map Image Rendering Database for GEoscience  
MIRAGE Search Results

Info / Download	Image	Number	Year	Author	Title
<a href="#">Map</a>	<a href="#">Cross Section Map</a>	NO 1095A	2001	Lin, S	Geology, the Hemlo gold camp, Ontario
<a href="#">Map</a>	<a href="#">Map</a>	NO 1080A	1000	Bédard, J R, Laflamme, K, Gagnon, A, Teller, M, Teller, M, Tremblay, A, Des, T	Geology, Beba Cove ophiolite complex and its cover rocks, Newfoundland
<a href="#">Map</a>	<a href="#">Map</a>	NO 1087A	1000	Henderson, P J, Way, Rex, V	Surface geology, Stewart, Manitoba
<a href="#">Map</a>	<a href="#">Map</a> <a href="#">Map</a> <a href="#">Map</a> <a href="#">Map</a> <a href="#">Map</a> <a href="#">Legend</a>	NO 1065A	1000	NATMAP Shield Margin Project Working Group	Geology, NATMAP Shield Margin Project area, Pin Point Belt, Manitoba/Stikine
<a href="#">Map</a>	<a href="#">Map</a>	1795A	1003	Percival, J A	Geology, Anjouan complex, Schefferville Area, Newfoundland-Quebec / Géologie, Complexe d'Anjouan, Région de Schefferville, Terre-Neuve-Ouest
<a href="#">Map</a>	<a href="#">Map</a>	1745A	1001	Murphy, J B, Koppa, J D, Hynes, A J	Geology, Annapolis Highlands, Nova Scotia
<a href="#">Map</a>	<a href="#">Map</a>	1751A	1000	Whalen, J B	Geology of a Northern Portion of the Central Platinic Belt, New Brunswick
<a href="#">Map</a>	<a href="#">Map</a>	1635A	1000	Shuck, L C	Geology, Wells, Cariboo Land District, British Columbia
<a href="#">Map</a>	<a href="#">Map</a>	1636A	1000	Shuck, L C	Geology, Spectacle Lakes, Cariboo Land District, British Columbia
<a href="#">Map</a>	<a href="#">Map</a>	1637A	1980	Shuck, L C	Geology, Swift River, Cariboo Land District, British Columbia
<a href="#">Map</a>	<a href="#">Map</a>	1638A	1980	Shuck, L C	Geology, Cariboo Lake, Cariboo Land District, British Columbia
<a href="#">Map</a>	<a href="#">Map</a>	1640A	1980	Henderson, J R	Geology, Ecom Secare Area, Nova Scotia


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MIRAGE Full Results - Microsoft Internet Explorer

Address: [http://www.nrc.ca/eng/geo/117/eng/117\\_0101.html](http://www.nrc.ca/eng/geo/117/eng/117_0101.html)

Title	Geology, the Hensley gold camp, Ontario
Author	Lu, S.
Year	2001
Series	Geological Survey of Canada, "A" Series Map
Map Number	no. 1875A
Supplemental Information	english, map Scale(s): 1:5000
Subject	structural geology; stratigraphy; lithology; mineralization; shear zones; structural features; stratigraphic analysis; green rocks; metamorphic rocks; schists; conglomerates; gneisses; volcanics; dykes; basaltic; volcanic rocks; granites; folds; lineations; deformation; structural interpretations; Archean; uranium lead dates; zircon dates; Proterozoic; Hensley gold camp; Hensley shear zone; Muskeg Lake porphyry; David Hill mine; Williams mine; Golden Giant mine
Location	Ontario
NTS	40C/12W
North	46 725
South	46 660
West	46 0817
East	46 08

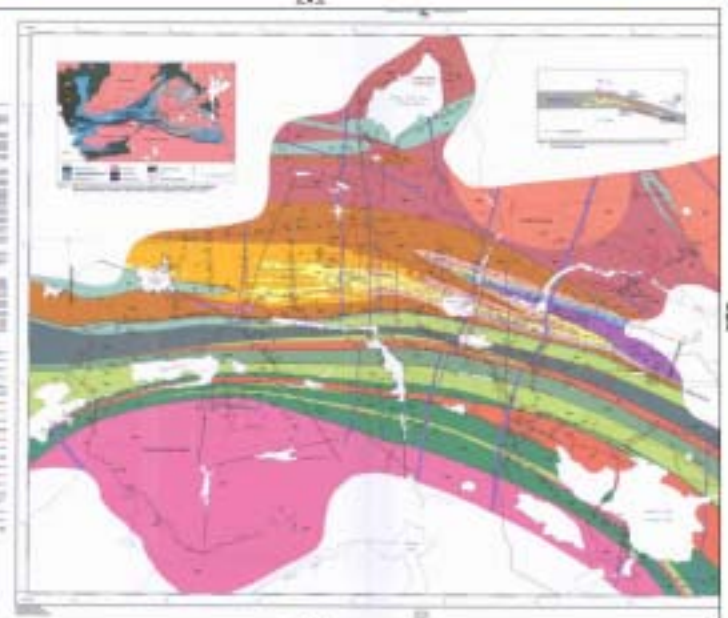
  
Cross Section  
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Map  
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Display Map Image - Microsoft Internet Explorer

Address: [http://www.nrc.ca/eng/geo/117/eng/117\\_0101.html](http://www.nrc.ca/eng/geo/117/eng/117_0101.html)

Image Size: 900 x 600



800 x 600 (width x height pixels) 8 % (zoom)

Geology, the Hensley gold camp, Ontario  
Lu, S., 2001  
Geological Survey of Canada, "A" Series Map, no. 1875A  
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Address: [http://www.gc.ca/nrc/geospatial/spaces\\_download\\_a.php?id=6442&id=21202&lang=gcmap\\_e\\_1975a\\_e\\_2001\\_mri1\\_jr01.pdf](http://www.gc.ca/nrc/geospatial/spaces_download_a.php?id=6442&id=21202&lang=gcmap_e_1975a_e_2001_mri1_jr01.pdf)

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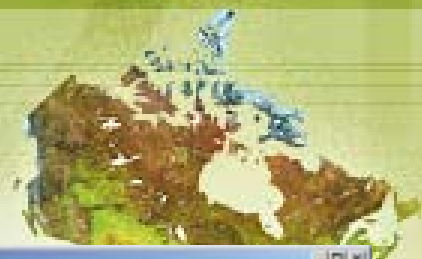
2005-11-08 10:58:33 AM

Adobe Acrobat - [gcmap\_e\_1975a\_e\_2001\_mri1(1).pdf]

File Edit Document Tools View Window Help

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Address [http://www.nrcan.gc.ca/mirage/new/mirage\\_index\\_n.php](http://www.nrcan.gc.ca/mirage/new/mirage_index_n.php)

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Year

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Title

Subject

Location

or

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Title

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Location

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Map Number:

Year:

Author:

Title:

Subject: gold

Longitude:

Latitude:

Location:

or

NTS:

Submit Search

Search

Query Results

Info	Image	Number	Year	Author	Title
<a href="#">Cross Section Map</a>	<a href="#">Cross Section Map</a>	ns 1975A	2001	Lin, S	Geology, the Heron gold camp, Ontario
<a href="#">Map</a>	<a href="#">Map</a>	34	1970	Johnston, W G Q	Geology of Kakelo Hills and southern portion of S W quarter of Beauchastel Township, Temiscamingue county, Quebec

Done

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Refine results using...

Map Number:

Year:

Author:

Title:

Subject: gold

Longitude:

Latitude:

Location:

or

NTS:

Submit Search

Search

Query Results

Info	Image	Number	Year	Author	Title
<a href="#">Cross Section Map</a>	<a href="#">Cross Section Map</a>	ns 1975A	2001	Lin, S	Geology, the Heron gold camp, Ontario

Done

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