



Phoenix: a Web-Based Collaboration Tool

<http://decisiontools.ca>



www.nrcan.gc.ca

Presented by: Denis Giroux (dgiroux@nrcan.gc.ca)
Geological Survey of Canada / Natural Resources Canada

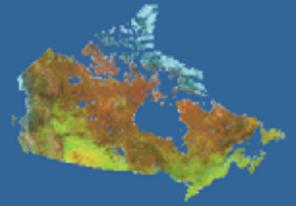


Natural Resources
Canada

Ressources naturelles
Canada

Canada

What is Phoenix ?



- Phoenix is a web-based software platform that offers an integrated set of collaboration and document management tools
- Enhances productivity and streamlines the decision making process in a distributed workgroup environment.
- Provides powerful tools to visualize, share and publish geographic information through interactive maps.

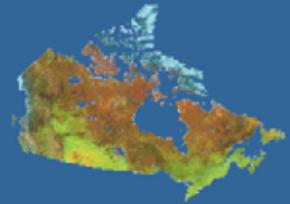
Phoenix Interface



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FrançaisHomeContact UsHelpSearchcanada.gc.ca

Phoenix RRNH

- Search
- Workspaces
- Collections
 - Documents
 - Maps
 - Layers
 - Scenarios
- Collaboration**
- Announcements
- Chat Rooms
- Contacts
- Discussions
- Emails
- Events
- Links
- Polls
- Surveys
- Tasks
- Weblogs
- News
- Publish
 - Published Assets
 - RSS Syndication
- Administration
- Users Online
 -  dgiroux

Logged in as dgiroux [Administrator] [Logout](#) 

My Workspaces Phoenix RRNH

[Customize](#) | [Add Content](#) | [Reset](#)

Welcome to RRNH Phoenix

Phoenix helps you collaborate with your colleagues and create and share collections of data in a workspace. A workspace is your personal organizer. It helps you make better decisions by providing all the information you need in one place. Each workspace holds the files you need, your appointments, contacts, tasks and daily news. You use the workspace to share documents and maps and to collaborate with your colleagues through email, discussion boards, polls, surveys and blogs.

[Recent Canadian Earthquakes Map](#)

Phoenix is brought to you by the public servants at [Natural Resources Canada](#) as part of the Reducing Risk from Natural Hazards, National Groundwater and [MAP:GAC](#) projects.

You will need to login (or register with us) in order to use this system.

Featured Workspaces

-  [Couture - Landslides](#)
-  [Eastern Canada Geohazards Assessment \(R-03\)](#)
-  [Geohazards Awareness \(R-06\)](#)
-  [Phoenix RRNH](#)
-  [PW-ADF](#)
-  [Risk Assessment Methods \(R-05\)](#)
-  [RRNH Program Management \(R-01\)](#)
-  [Space Weather Hazards Assessment \(R-04\)](#)
-  [Western Canada Geohazards Assessment \(R-02\)](#)

[Add New Workspace](#) | [See all 9 Workspaces](#)

Polls

There are no polls to display

Announcements

[Presentation to Corporate Management Sector](#)
Presentation of Pheonix to Corporate Management Sector
January 18, 2008

Picture of the Day

There are no pictures to display

Services

No content available.

Tasks

There are no tasks to display

News

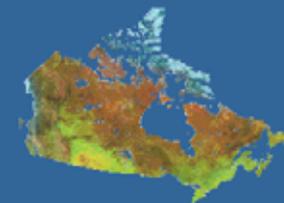
[EarthquakesCanada main index - Canada](#)

- [Breaking News](#)
- [2008-07-14: M=5.0 - 29 km NW of Wrigley](#)
- [2008-06-11: M=3.2 5 km NE of Buckingham](#)
- [2008-06-01: M=3.6 - northwest of Vancouver Island](#)
- [2008-05-30: M=4.1 - northwest of Vancouver Island](#)
- [2008-05-29: M=2.1 - near Penticton](#)

31 minutes ago



Technology Evolution



Cordlink Geo-Library



Georgia Basin Digital Library

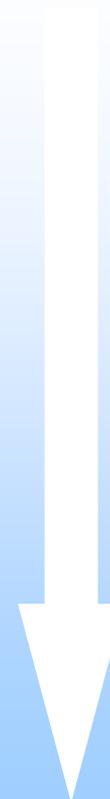


GeoSemantica



Phoenix

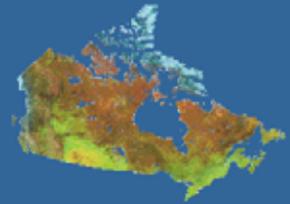
Digital Library



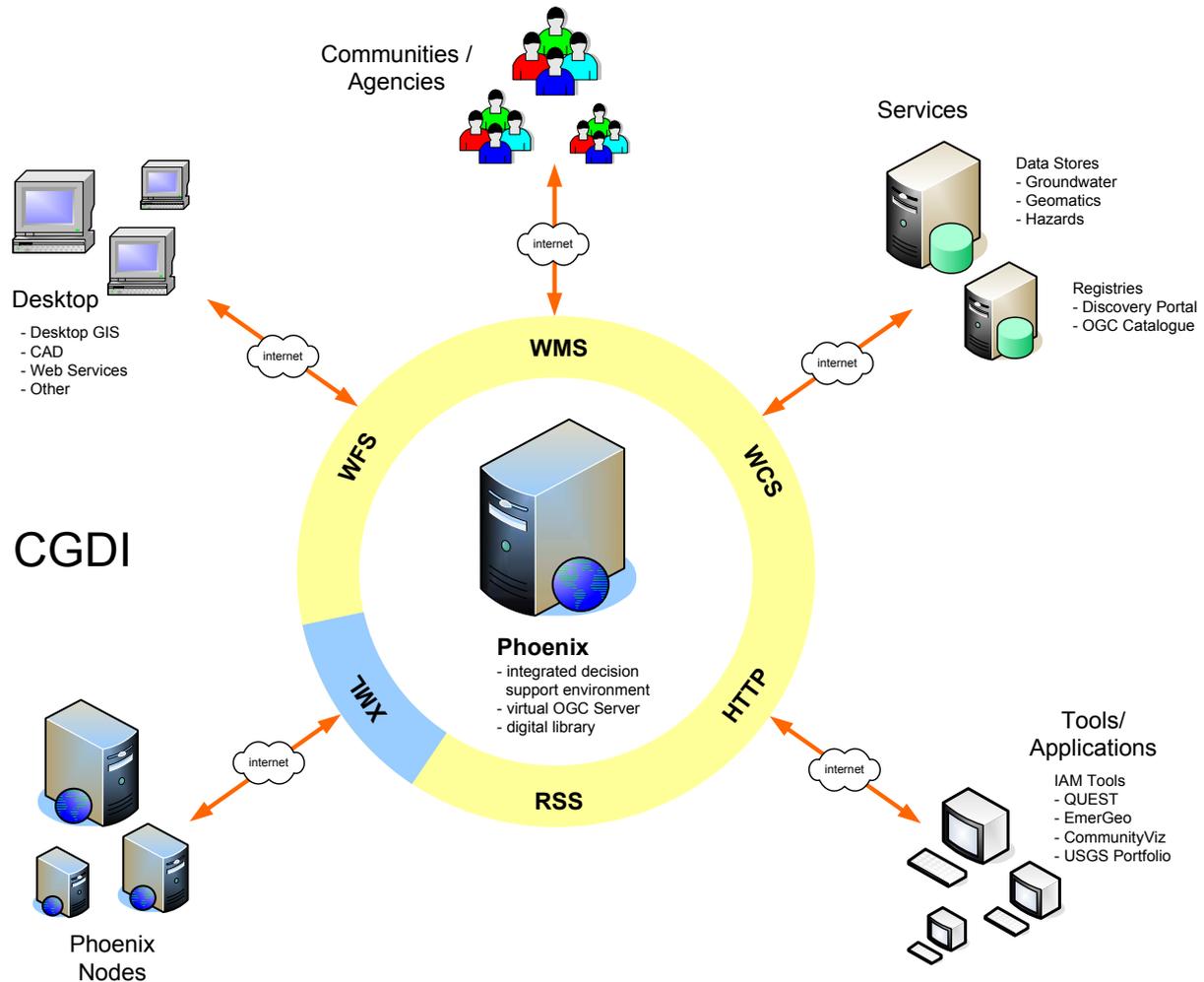
Decision Support



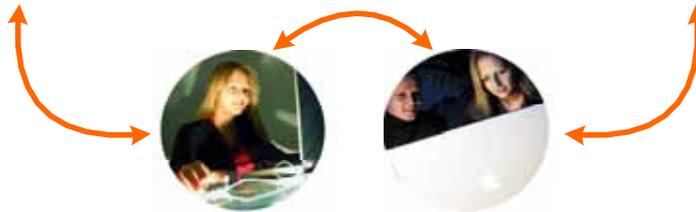
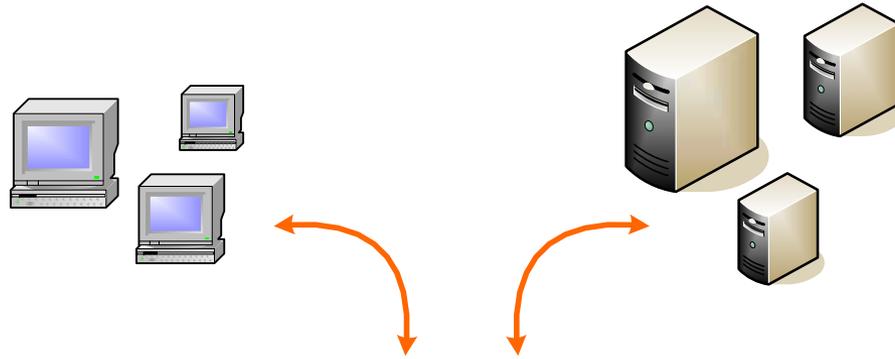
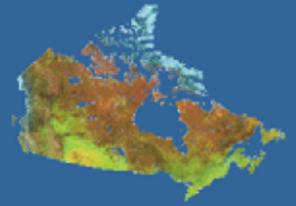
Phoenix Overview



- ✓ Interoperable
- ✓ Open standards
- ✓ Compatibility with CGDI
- ✓ Web based

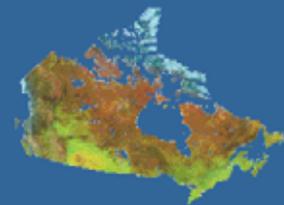


Phoenix – Workspaces



- ✓ Configurable
- ✓ Secure
- ✓ User managed
- ✓ Role based security
- ✓ Auto-notification
- ✓ Full text searching

Phoenix Technology



- Built on existing information technologies and standards:
 - Canadian Geospatial Data Infrastructure (CGDI)
 - Canadian Geoscience Knowledge Network (CGKN)
 - Open GIS consortia (OGC)
 - Metadata (FGDC/ISO)
 - Web (W3C)

- ✓ Standards based!

Phoenix Modules

8

- Digital Library Modules
- Documents
- Maps
- Map Layers
- Scenarios

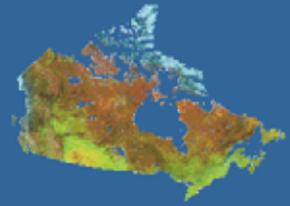
The screenshot displays the Natural Resources Canada website's 'Map Explorer' interface. The page title is 'Map Explorer : "World Map"'. The interface includes a search bar, a navigation menu on the left with options like 'Search', 'Workspaces', 'Collections', 'Documents', 'Maps', 'Layers', 'Scenarios', 'Collaboration', 'Announcements', 'Chat Rooms', 'Contacts', 'Discussions', 'Emails', 'Events', 'Links', 'Polls', 'Surveys', 'Tasks', 'Weblogs', 'News', 'Public', 'Published Assets', 'RSS Syndication', and 'Administration'. The main content area shows a world map with various layers and a legend on the right. The legend includes categories like 'Lakes', 'Country Names', 'Country Capital City Names', 'Country Capital Cities', 'Capital city', and 'Countries'. The 'Countries' section lists Canada, United States of America, Denmark, Iceland, United Kingdom, Norway, Sweden, and Finland. The bottom of the page shows the date 'Last update 2008-08-05' and a 'Top of Page' link.

The screenshot displays the Natural Resources Canada website's search interface. The page title is 'Search'. The interface includes a search bar, a navigation menu on the left with options like 'Search', 'Workspaces', 'Collections', 'Documents', 'Maps', 'Layers', 'Scenarios', 'Collaboration', 'Announcements', 'Chat Rooms', 'Contacts', 'Discussions', 'Emails', 'Events', 'Links', 'Polls', 'Surveys', 'Tasks', 'Weblogs', 'News', 'Public', 'Published Assets', 'RSS Syndication', and 'Administration'. The main content area shows search results for 'Lakes'. The results table has columns for 'Type', 'Title', and 'Location'. The results include items like 'Lakes and water of Canada', 'Ocean (1:2 000 000)', 'Water Areas (1:15 000 000)', 'Water Areas (1:2 000 000)', 'Water Areas (1:50 000 000)', 'Water Areas (1:7 500 000)', 'Water Survey of Canada Major Drainage Areas (names)', 'Water Survey of Canada Major Drainage Areas (1:10)', and 'Water Survey of Canada Sub-drainage Areas (1:2 000 000)'. The bottom of the page shows the date 'Last update 2008-08-05' and a 'Top of Page' link.

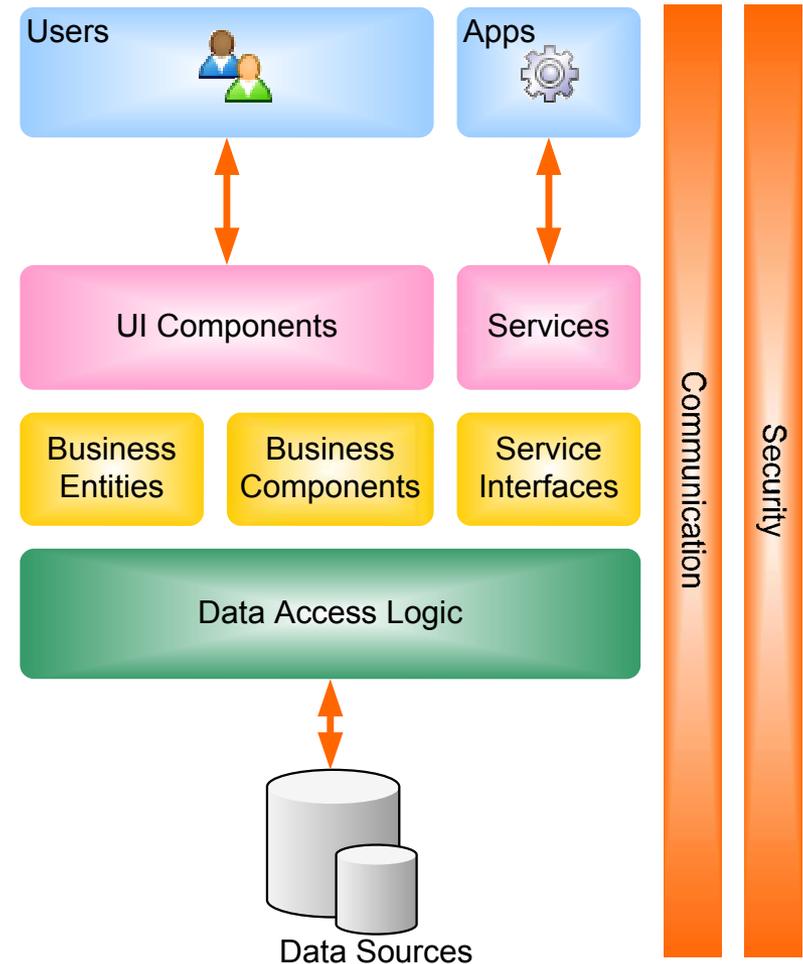
Collaboration Modules

- Discussions
- Email
- Announcements
- Workflows
- Etc...

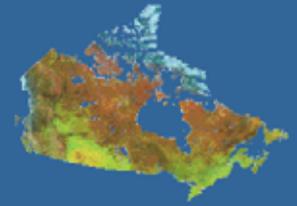
Under the Hood



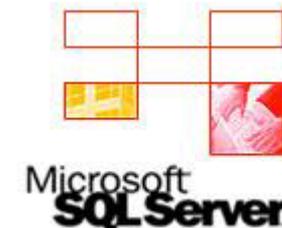
- N-tier Architecture
 - Scalability
 - Maintainability
 - Performance
 - Security
- Microsoft Platform
 - C# ASP.NET
 - MS SQL Server
 - Windows Server



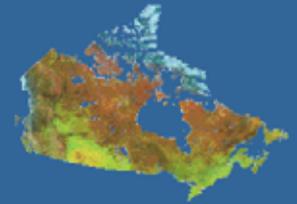
Platform / Technologies



- Microsoft Platform
 - C# ASP.NET
 - Ease of deployment
 - Rapid application development
 - Excellent performance
 - MS SQL Server
 - Ease of deployment
 - Popular
 - Excellent performance
 - Windows & IIS



Some Phoenix facts



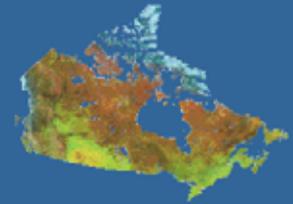
- Current version is 2.85 (as of July 2008).
- Application has been developed by the Geological Survey of Canada with some CIDA (*Canadian International Development Agency*) fundings.
- Complete Helpfiles in English and French in a Wiki environment.

Usage of Phoenix



- Phoenix is web-based → could help collaborate effectively despite geographic distribution.
- You could use this tool as a safe repository for all data, articles, maps, reports, geo-spatial data, etc.
- Appearance can be customized by modifying cascading style sheet (CSS).
- Currently uses SQL Server to store databases → server must be maintained, secure, and regularly backed up.

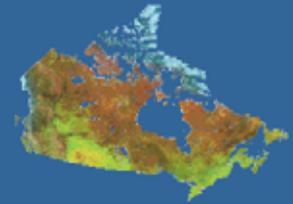
Phoenix



It can be setup as a secure workspace with restricted access.

Individual Login.
(Secure username and password)

Displays a list of users currently online.



Phoenix-RRNH (Phoenix RRRNH) - Microsoft Internet Explorer

Address <http://rrnh-man.phoenix.nrcan-mcan.gc.ca/login.aspx>

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Phoenix RRRNH

Search
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Discussions
Emails
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Polls
Surveys
Tasks
Weblogs
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Publish
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RSS Syndication
Users Online
lirichar

Logged in as lirichar [Workspace Author] Logout
My Workspaces Phoenix RRRNH

Personal Details

[Edit](#) [Back](#)

Linda Richard



Online Status

 Linda Richard (lirichar) is Available

[Send an alert to lirichar](#)

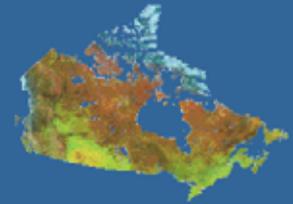
Address Information
Ottawa, Ontario
CANADA

Contact Information
lirichar@nrcan.gc.ca

Personal information can be entered, even a picture.

You can contact a user by sending an alert.

Phoenix



Phoenix-RRNH (Phoenix RRNH) - Microsoft Internet Explorer

Address: http://lmh-rrnh.phoenix.nrcan-mcan.gc.ca/login.aspx

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Franglais Home Contact Us Help Search canada.gc.ca

Phoenix RRNH > Risk Assessment Methods

Search Logged in as linchar [Not Approved] Logout
My Workspaces Select Workspace

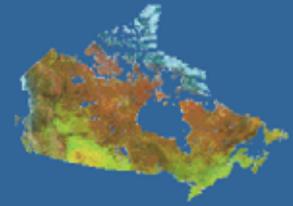
Contacts

View: List

Icon	Name	Email
	Dan Beaulac	dbeaulac@nrcan.gc.ca
	Richard Bernknopf	rbern@usgs.gov
	Peter Bobrowsky	pbobrows@nrcan.gc.ca
	Chang-Jo Chung	chung@nrcan.gc.ca
	Dominique Gauvreau	dgauvreau@nrcan.gc.ca
	Denis Giroux	dgiroux@nrcan.gc.ca
	Roger Helliwell	rhelliwe@nrcan.gc.ca
	Murray Journeay	mjournea@nrcan.gc.ca
	Otto Krauth	okrauth@nrcan.gc.ca
	Test One	dgauvreau@hotmail.com

Page 1 of 2

List of members is easy to manage via the interface.




 Ressources naturelles Canada / Natural Resources Canada

Canada 



Ressources naturelles Canada
 www.rncan.gc.ca

[English](#) | [Accueil](#) | [Contactez-nous](#) | [Aide](#) | [Recherche](#) | [canada.gc.ca](#)

Phoenix RRRAN

Recherche Usager courant: dgiroux [Administrateur] [Fermer la session](#)
 Espaces de travail Mes espaces de travail: Phoenix RRRAN

Collections [Configurer](#) | [Ajoutez du contenu](#) | [Réinitialiser](#)

Bienvenue sur Phoenix RRRAN
 Phoenix vous permet de collaborer avec vos collègues, de créer et de partager vos données dans un espace de travail. Un « espace de travail » est un compartiment personnel informatisé. Il vous aide à prendre de meilleures décisions en regroupant toutes les informations nécessaires dans un seul endroit. Chaque espace de travail regroupe vos fichiers, vos rendez-vous, vos contacts, vos tâches et les nouvelles quotidiennes. Vous utilisez votre espace de travail pour partager vos documents et vos cartes ainsi que pour collaborer avec vos collègues par courriel, babillards, votes, sondages et blogues.

Phoenix est une réalisation de [Ressources naturelles Canada](#), dans le cadre des projets Réduire les risques dûs aux aléas naturels, Eaux souterraines et MAP-GAC.

Vous devez ouvrir une session (ou vous enregistrer) pour utiliser cette application.

Espaces de travail
 Couture - Landslides
 Projet des méthodes d'évaluation du risque
 PW-ADP
 RRNH Management Documents
[Ajouter un nouvel espace de travail](#) | [voir tous les espaces de travail \(4\)](#)

Événements
[The 4th Canadian Conference on GeoHazards](#)
 Lieu: Université Laval, Quebec City
 20 mai 2009 à 24 mai 2009

Annonces
[Presentation to Corporate Management Sector](#)
 Presentation of Pheonix to Corporate Management Sector
 18 janvier 2008

Nouvelles
[EarthquakesCanada main Index - Canada](#)
 2008-01-30: magnitude 4.8 ML
 2008-01-25: magnitude 4.6 MN
 2008-01-17: magnitude 5.8 ML
 2008-01-09: magnitude 5.1 Mw
 2008-01-05: magnitude 6.5 Mw
 Il y a 205 minutes

En ligne
 dgiroux
 fchartier

Photo du jour
 Il n'y a aucun photos à montrer

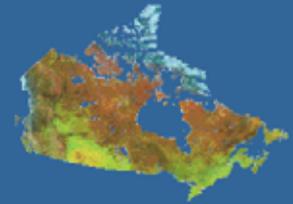
Enquêtes
 Il n'y a pas de scrutins à afficher.

The interface is bilingual.

The content is “as entered”.

Text is entered via simple text boxes and/or the built-in text editor, depending on the accessed Phoenix module.

Phoenix modules



Collaboration



Announcements

Share new and upcoming developments with others.



Chat Rooms

Converse with other online members in real-time



Contacts

Contact information for people associated with your workspace.



Discussions

Discuss issues with others. Create new topics and contribute.



Emails

Compose, Save and Send emails.



Events

Share new and upcoming events with others. Publish your announcements to the world using RSS.



Links

Favourite Links to relevant information can be stored here.



Polls

Curious what others think? Start a poll and find out!



Surveys

Need to gather unsolicited feedback? Start a survey!



Tasks

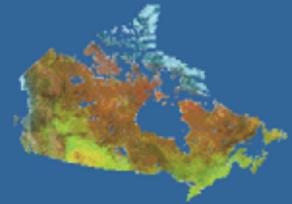
Manage activities and tasks.



Weblogs

Record project information in a notebook format that can be read and added to by all project members

There are a number of collaboration options...



Natural Resources Canada
www.nrcan.gc.ca

Phoenix RPNH > Collections > Documents / GSC Northern

Logged in as dgiroux [Administrator] Logout

My Workspaces: PhoenixRPNH

Documents

View: List

Icon	Title	Published Status
	DEM documentation	
	How to clip a GRID	SHARED

Last update 2008-02-11

Top of Page

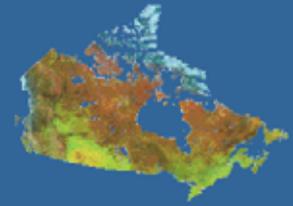
Important Notice

It has document sharing.
It uses a “Sharepoint” approach.

Any document can be uploaded, downloaded, and viewed if the users computer has the supporting software.

You can replace documents, delete them. etc. They can be organized in folders and sub-folders.

Phoenix – Layers module



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Phoenix RRNH > Collections > Layers / GSC Northern / Canada

Search
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Publish
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Users Online
dgiroux

Layers

Up Add Folder Subscribe Add Delete Cut Copy View Map

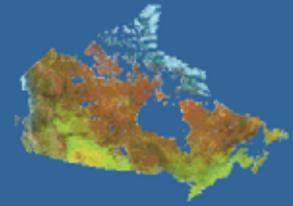
Show Details View: List

Thumbnail	Title ↓	Published Status	
<input type="checkbox"/>	Land and water of Canada	None	
<input type="checkbox"/>	Provincial boundaries	Shared	
<input type="checkbox"/>	rivers of Canada	Shared	

Last update 2008-08-14 [Top of Page](#) [Important Notice](#)

The **Layers** module is used to upload and save geospatial data.

Just select layers to create a map, using checkboxes and click the **View Map** tab.



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Phoenix RRNH > Collections > Layers

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Administration

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Logged in as dgiroux [Administrator] Logout

My Workspaces Phoenix RRNH

Add a New Layer

Save and Close Cancel

Properties Metadata

File Type * ESRI Shapefile

ESRI Shapefile

Feature Type * point

Projection * Lat/Long WGS 84

My Files - Select a file -

HTTP Upload (for files under 50MB)

Browse... Remove Upload

Browse... Remove

Browse... Remove

Add

FTP Upload (for files over 50MB)

Upload your file to rnh-rran.phoenix.nrcan-mcan.gc.ca (USERNAME: anonymous, PASSWORD: your email / votre email) using an FTP client of your choice (eg. SmartFTP or WS_FTP). Once your file is uploaded, enter the filename in the box below and click "Done".
Note: If your file is composed of one or more files (eg. file.shp, file.shx, file.dbf) you only need to enter the primary filename (eg. file.shp).

Done

Last update 2008-02-11

Top of Page

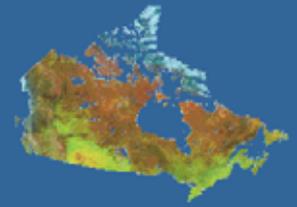
Important Notice

Different file types can be uploaded and viewed:

- ESRI Shapefile
- Raster
- Remote WMS
- GML
- Mapinfo
- KML

Need to specify feature type (point, line, polygon) and projection to add layers.

Phoenix – Layers module



Download



Close

Name	Provincial boundaries [prov_boundary.shp]
Projection	EPSG:42304
File Type	ESRI Shapefile
Created Date	December 18, 2007

Preview



ESRI Shapefile [.zip]

GML [OGC WFS GetFeature]

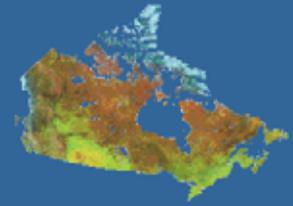
KML [GoogleEarth® KML file]

Styled Layer Descriptor (SLD) [.xml]

Layers will also become downloadable/usable in:

- Shapefile
- GML
- KML
- and XML formats.





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Phoenix RRNH > Collections > Maps / G5C.Notherm

Search Logged in as dgiroux [Administrator] Logout

Workspaces My Workspaces PhoenixRRNH

Collections **Maps**

Documents

Maps Up Add Folder Subscribe Delete Cut Copy Show Details

Layers View: List

Scenarios

Collaboration Maps can be created from your Cart or from the Search and Layers modules. Just select any number of Layers and click on the "View Map" button. Saving the map will add it to your Maps collection.

<input type="checkbox"/>	Thumbnail	Title	Published Status	
<input type="checkbox"/>		Canada map 1	SHARED	
<input type="checkbox"/>		Countries of the African Horn	SHARED	
<input type="checkbox"/>		map	SHARED	
<input type="checkbox"/>		Map 1 African Horn	NONE	

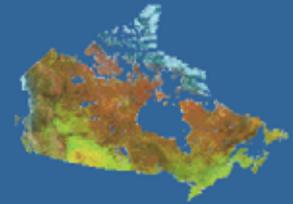
Users Online
dgiroux
Anonymous (1)

Last update 2008-02-11 [Top of Page](#) [Important Notice](#)

Maps module is used to view maps created with chosen layers.

Maps can then be viewed, deleted, properties & metadata can be edited.

Phoenix – Maps module



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Published Assets
RSS Syndication
Administration

Logged in as dgiroux [Administrator] Logout

My Workspaces Phoenix RRNH

Map Explorer : "map"

Save Map Download Back

0 1100 2200 3300 4400 5500 km

rivers of Canada
 Provincial boundaries
 rivers
 boundary

N 123.49 W -171.532055 S -2.77 E -13.627945

Users Online
dgiroux

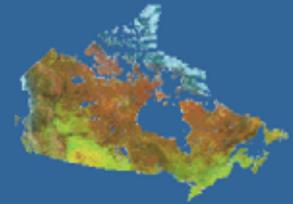
Abstract
Layers

Last update 2000-02-11

Top of Page Important Notice

Maps legend can be edited and map layers re-ordered.

Phoenix – Maps module



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Phoenix RRNH > Collections > Maps / GSC Nothem

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Published Assets
RSS Syndication
Administration
Users Online

Logged in as dgiroux [Administrator] Logout

My Workspaces Phoenix RRNH

Update Map

Save and Close Request Promotion Cancel

Properties Metadata

Title

Abstract

Is Viewable?

Export to? Map Viewer OGC Web Map Service (WMS)

Exported Map Links
 Map Viewer Link: http://rrnh-rran.phoenix.nrcan-rncan.gc.ca/collections/map_viewer.aspx?map=f30e89c0-0c69-48ca-8cc0-80c1a391d8b4
 WMS Link: http://rrnh-rran.phoenix.nrcan-rncan.gc.ca/services/mapserv.exe?service=wms&map=f30e89c0-0c69-48ca-8cc0-80c1a391d8b4_wms.map

Share with others?

Current Published Status **SHARED**

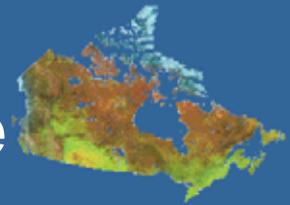
File Owner sysadmin (sysadmin)

Created on November 14, 2007 9:17 PM by sysadmin
Last modified on August 7, 2008 2:55 PM by Denis Giroux

Map Viewer and WMS links created automatically (if desired)



Phoenix – Search module



Phoenix RRNH > Search

Search ←

Workspaces
My Workspaces | Phoenix RRNH

Collections
Documents
Maps
Layers
Scenarios

Collaboration
Announcements
Chat Rooms
Contacts
Discussions
Emails
Events
Links
Polls
Surveys
Tasks
Weblogs

News

Publish
Published Assets
RSS Syndication

Administration

Users Online
dgiroux

Logged in as dgiroux [Administrator] Logout

Search

Clear Results Add To Workspace View Cart View Map

Keyword

Search

Simple Search Advanced Search Search remote nodes

Spatial Filter

Zoom in as close as possible to the area of interest and draw the approximate extent using the extent tool.

Map navigation icons: Home, Previous, Next, Full Screen, Refresh, etc.

N 90 W -180.452261 S -90 E 180.452261 (Lat/Lon)

90
-180 180
-90

Temporal Filter

From: January 1980 To: August 2008

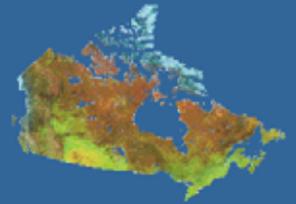
53	30	31	1	2	3	4	5	31	27	28	29	30	31	1	2
2	6	7	8	9	10	11	12	32	3	4	5	6	7	8	9
3	13	14	15	16	17	18	19	33	10	11	12	13	14	15	16
4	20	21	22	23	24	25	26	34	17	18	19	20	21	22	23
5	27	28	29	30	31	1	2	35	24	25	26	27	28	29	30
6	3	4	5	6	7	8	9	36	31	1	2	3	4	5	6

Results

Search tool to query workspaces via:

- simple search (keywords)
- advanced search (keywords and/or spatial filter and/or temporal filter)
- remote Phoenix nodes search

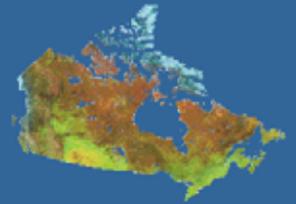
Phoenix



Conclusion:

- Brief overview of Phoenix.
- More modules are available.
- Visit <http://decisiontools.ca> to download the full application.
- Visit <http://help.decisiontools.ca> for full Phoenix helpfiles and installation details (in English and French).

Phoenix



Questions?

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