Values At Risk

The Spatial Precipitation and Risk Calculation System

SPARCS

GNW T ENR FMD HQ FS
Values At Risk

Presented By:
Vera Lindsay/Green
NWT Fire Sciences
GIS Analyst

Outline

- Development
- SPARCS
- System Admin
- Virtual Tour
Development Objectives

Operational

- What did we do in the past?
- Policy Requirements
- User / Decision Maker requirements

Technical

- User Friendly
- User Friendly
- User Friendly

- Open Source
- Standards Based
- Flexible
- Expandable
- Interoperability
- Admin tools not requiring programming
**System Administration**

- Role based access
- Regional security
- Built in reporting
- Easy to customize
- PHP scripts make almost anything possible
- User activity tracing/Versioning
Values At Risk . . .
A SPARCS sub-system
New users

Training

Staff Orientation

Certification
Downloadable VAR Forms

The following forms are available for download:

- Values at Risk Form in PDF Format
- Values at Risk Form and Hazzard Assessment Form in PDF Format
- Values At Risk Field Guide in PDF Format
- Values at Risk Form for the Public in PDF Format

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### Values at Risk Form

**Date:** Day____ Month:___ Year:___

**Collected By:** First name: ___________ Last name: ___________

**Collection Method:**
- [ ] Field Verification
- [ ] First-hand knowledge

**Short Descriptive Name (What is it?):**

<table>
<thead>
<tr>
<th>Geographic Location</th>
<th>Latitude:</th>
<th>Longitude:</th>
</tr>
</thead>
</table>

**Human Life:**
- [ ] Occupied
- [ ] Unoccupied
- [ ] Occupancy Unknown
- [ ] Non-Habitable

**Display Category:**
- [ ] Infrastructure (Non-Habitable Structure)
- [ ] Habitable Structure Private
- [ ] Habitable Structure Non-Private
- [ ] Cultural Resource
- [ ] Natural Resource

**Region:**
- [ ] Inuvik
- [ ] Sahtu
- [ ] North Slave
- [ ] Dehcho
- [ ] South Slave

**Is there hazardous material at this site?**

- [ ] If YES check this box

**Collection Details for Owner of VAR:**

<table>
<thead>
<tr>
<th>First Name:</th>
<th>Last Name:</th>
<th>Phone Number:</th>
<th>E-Mail Address:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>( ) _______</td>
<td></td>
</tr>
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**Additional Comments:**

---

**Filed Work**

**One stop shop**

**Comprehensive Verification Strategy**

**Regional Planning**
Downloadable VAR Forms

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Filed Work

One stop shop

Comprehensive Verification Strategy

Regional Planning

Verification Method:
- Not Verified
- First-Hand Knowledge
- Field Verification

Short Descriptive Name (What the form is about):

Geographic Location: Latitude, Longitude

Human Life:
- Occupied
- Unoccupied
- Occupancy Unknown
- Non-Habitable

Is there hazardous material at the location?

Collection Details for Owner or Occupancy:
- First Name:
- Last Name:
- Phone Number:
- E-Mail Address:

Verification Notes:
Quick access
Classification

A VAR

**Required Information**

**Short Descriptive Title:** *

- The "Short Descriptive Title" should provide at-a-glance information. This field should act as a quick reference but still allow you to distinguish easily between fields.

**Category:** *

- Cultural Resource
- Habitable Structure Non-Private
- Habitable Structure Private
- Infrastructure - Non-Habitable Structure
- Natural Resource

**Human Life:** *

- Occupied
- Unoccupied
- Occupancy Unknown
- Non-Habitable

**Region:** *

- None

- Hazardous Material (YES)
- Check if hazardous material is present.

**Keywords (comma separated):** *

-
Quick access
Classification
Owner Information


Submitted by Dallas Phillips on Thu, 2009/05/21 - 14:28
Posted in South Slave Habitable Structure Private 075D03 fishing hunting Long Lake cabin

Required Information
Information required for the creation of a new VAR node.

Short Descriptive Title:
Kevin Lys/Cameron Phillips Hunting & Fishing Cabin on Long Lake

Category: Habitable Structure Private
Human Life: Unoccupied
Region: South Slave
Hazardous Material: No
Keywords (comma separated): hunting, fishing, cabin, Long Lake, 075D03

Information Required for Verification of VAR's
Collection details pertaining to validation of the VAR in the field.

Verification Method: First-Hand Knowledge
Date of Verification: Thu, 2009/05/21
Verified By: First Name: Dallas
Verified By: Last Name: Phillips
Verification Notes: I know this VAR from first-hand knowledge, as I also use this cabin once in a while in the winter months (field verified as well).

Contact Details
Fields for identification of contact person.
First Name: Kevin
Last Name: Lys
Phone Number: 8678724357
Address: #13 Ptarmigan St. Box 1195 Fort Smith, NT X0E 0P0
Contact Notes: You can also contact Cameron Phillips as he helped build this cabin is co-owner. Cam can be contacted at 8678722121 (days) and 8678724721 (evenings).

Proponent generally stores small amounts of fuel at site for personal use. Usually a couple jerry cans or very rarely the odd drum or two. Originally this VAR was listed as "Occupied" however it's mostly used in the winter months. This site only occupied/visited maybe 3 or 4 times during the summer.

FOAM# SM-5015
Operational Status: Active - VAR records which are NOT archived
Approved: Approved
Archive Admin: active

Photos
A VAR...

- Quick access
- Classification
- Owner Information
- Approval


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A VAR ...

- Quick access
- Classification
- Owner Information
- Approval
- Map View

[VAR Location]
- POINT(-117.5858 61.2581)

[Lat Long Convert]
- Lat: 56.789
- Lon: 123.45678

[Contact Information]
- First Name: Kevin
- Last Name: Lys
- Phone Number: 8678724357
- Address: #13 Ptarmigan St. Barren 0000 Fort Smith NT X0C 0C0
- Contact Notes: You can also contact Cameron Phillips as he helped build this cabin is co-owner. Cam can be contacted at 8678722121 (days) and 8678724721 (evenings).

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- Photos
A VAR...

- Quick access
- Classification
- Owner Information
- Approval
- Map View
• Quick access
• Classification
• Owner Information
• Approval
• Map View
• Photos
This tool is SOO cool.
Searching

- Key words
- VAR ID number
- Owner
- Region
  
  any other field in Var Record

If you have questions or suggestions please submit them using the SPARCS feedback form, bug report or feature request available under the Help menu.

SPARCS brings the benefit of Web 2.0 and the latest Internet Technology to Fire Management.
Searching by Map . . .

- Zoom and Pan
- Hover pop ups
- At a glance data summary
- Click-once access to record
GIS Extract

Download shape file

VAR GIS Extract Tool - ESRI Shapefile Format

1. The data download is a snapshot of the data, once downloaded updates in SPARCS are NOT reflected. Keeping the VAR shape file current is YOUR responsibility.

2. SPARCS continues to be the data authority for all VAR data. Data MUST be updated in SPARCS. Updates to the shape file will not be reflected in SPARCS, and cannot be used by SPARCS, and are not considered to be valid VAR entries.

3. The intended purpose for this data extract is to facilitate field work such as GPS data uploads. Please continue to use the WMS service where possible. If you have lost your WMS service layer file please submit a fmdhelpdesk ticket by sending an email to: fmdhelpdesk@gov.nt.ca

4. This function is provided to facilitate immediate field work. It is NOT a permanent solution, the SPARCS team will be developing better tools in the near future. Comments, questions or issues regarding this tool should be submitted using the SPARCS bug reporting and feature request tools.

Your Account allows extract from any region, Preparing all regions...
Tuesday 21st of September 2010 01:36:23 PM
Output for ev

[Initializing... Done (postgis major version: 1).]

Download Zipped Shapefile for ev region

Output for ev

[Initializing... Done (postgis major version: 1).]

Download Zipped Shapefile for ev region

Output for vz

[Initializing... Done (postgis major version: 1).]

Download Zipped Shapefile for vz region

Output for sm

[Initializing... Done (postgis major version: 1).]

Download Zipped Shapefile for sm region

Output for fs

[Initializing... Done (postgis major version: 1).]

Download Zipped Shapefile for fs region

Output for wb

[Initializing... ERROR: Cannot determine geometry type (empty table).]

Download Zipped Shapefile for wb region
Proximity Reports

Logged in as: Vera Lindsay

Home

Opsdisplay Var Proximity Report

Fires

WARNING: This is beta product for the 2010 season.
Nothing is more concrete than a proximity analysis.
You can file a bug report but it will not be a priority.

Proximity Fire:
2010-FR-SS-00012
Please select the fire.

Proximity Distance:
10 km
5 km
10 km
15 km
20 km
30 km
40 km
50 km
70 km

This brings the benefit of Web 2.0 and the latest...
Proximity Reports

Proximity Report - Values within ~10 Kilometers from 2010-FR-SS-00003

This report is for pilot use only. Distance radius is not exact. In doubt choose a larger radius.

<table>
<thead>
<tr>
<th>ID Code</th>
<th>VAR Desc.</th>
<th>Latitude dd.dm</th>
<th>Longitude dd.dm</th>
</tr>
</thead>
<tbody>
<tr>
<td>38993</td>
<td>HYDRO DEVELOP. O.I.C. at TALTSON R. &amp; NONACHO LK</td>
<td>60.4166666667</td>
<td>-111.35</td>
</tr>
<tr>
<td>38996</td>
<td>HUNT/FISH CABIN L. APPL. at TRUDEL LAKE</td>
<td>60.355</td>
<td>-111.313333333</td>
</tr>
<tr>
<td>41243</td>
<td>Twin Gorges Hydro Dam</td>
<td>60.4166</td>
<td>-111.3666</td>
</tr>
<tr>
<td>42674</td>
<td>M. Siurko &amp; Craig Walsh Cabin on Trudel Lake</td>
<td>60.3547166667</td>
<td>-111.3143</td>
</tr>
<tr>
<td>43111</td>
<td>Louis Beaulieu tentframe</td>
<td>60.4236</td>
<td>-111.308</td>
</tr>
<tr>
<td>43155</td>
<td>trad. use cabin lease at lynn lake</td>
<td>60.33055555555</td>
<td>-111.272222222</td>
</tr>
</tbody>
</table>

Back to SPARCS | Another Proximity Report

Accuracy versus decimal places

decimal places | degrees | distance
---|---|---
0 | 1.0 | 111 km
1 | 0.1 | 11.1 km
2 | 0.01 | 1.11 km
3 | 0.001 | 111 m
4 | 0.0001 | 11.1 m
5 | 0.00001 | 1.11 m
6 | 0.000001 | 0.111 m
7 | 0.0000001 | 1.11 cm
8 | 0.00000001 | 1.11 mm
Feeds Other Systems

- Ops Display
- Automated Mapping
- EMBER (Financial Management system)
Future Directions

- Public
- Lines and Polygons
- VARs Expire
Values At Risk

Many thanks to all Open Source communities which make this project possible.

Questions?

THE SPATIAL PRECIPITATION AND RISK CALCULATION SYSTEM

SPARCS

GNWTFENRFMDHQFS
Thank you

This presentation was created using:

Open Office
GIMP
Inkscape

Free and Open Source Software

Many thanks to all Open Source communities which make this project possible.