

# Values At Risk



THE SPATIAL  
PRECIPITATION  
AND RISK  
CALCULATION  
SYSTEM

S P A R C S

GNWT ENR FMD HQ FS

# Values At Risk

## Outline

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

THE SPATIAL  
PRECIPITATION  
AND RISK  
CALCULATION  
SYSTEM

- *Development*
- *SPARCS*
- *System Admin*
- *Virtual Tour*

SPARCS

GNWT ENR FMD HQ FS

# Development Objectives

## ***Operational***

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

- *User Friendly*
- *User Friendly*
- *User Friendly*

## ***Technical***

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

# SPARCS

SPATIAL  
PRECIPITATION

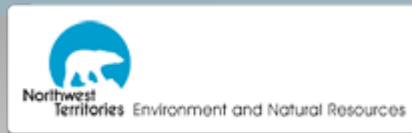
AND RISK

EVALUATION

SYSTEM



*Developed By:*

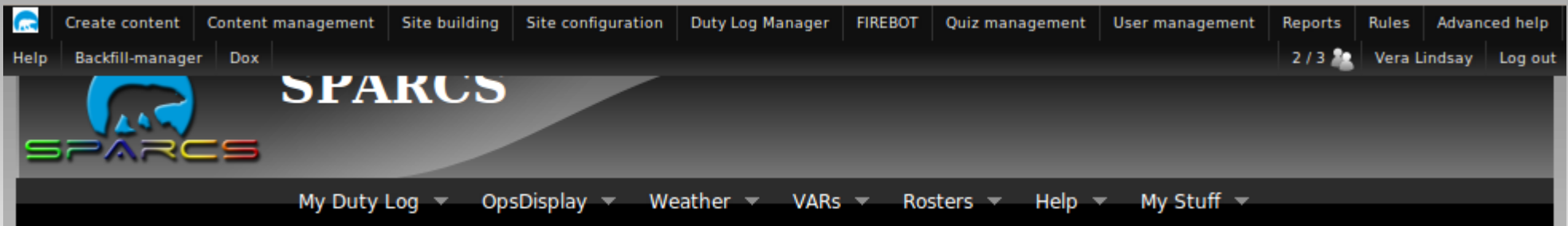


*FMD Fire Sciences  
Franco Nogarin  
Vera Lindsay*



# *System Administration*

- *Role based access*
- *Regional security*
- *Built in reporting*
- *Easy to customize*
- *PHP scripts make almost anything possible*
- *User activity tracing/Versioning*



The screenshot displays the SPARCS system administration interface. At the top, a navigation menu includes links for: Create content, Content management, Site building, Site configuration, Duty Log Manager, FIREBOT, Quiz management, User management, Reports, Rules, and Advanced help. Below this, a secondary menu contains: Help, Backfill-manager, and Dox. On the right side of the interface, it shows the user's current page (2 / 3), their name (Vera Lindsay), and a Log out button. The main header area features the SPARCS logo, which consists of a stylized blue elephant head above the word "SPARCS" in a colorful, multi-colored font. Below the header, a dark navigation bar contains several menu items with dropdown arrows: My Duty Log, OpsDisplay, Weather, VARs, Rosters, Help, and My Stuff.

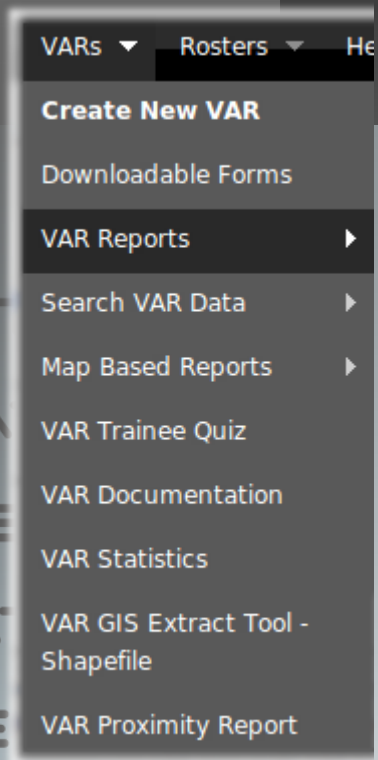
# *Values At Risk . . . A SPARCS sub-system*

*Learn*

*Create*

*Search*

*Report*



A screenshot of a web application menu. The menu is dark grey with white text. It has three main sections: 'VARs', 'Rosters', and 'He'. The 'VARs' section is expanded, showing a list of options: 'Create New VAR', 'Downloadable Forms', 'VAR Reports', 'Search VAR Data', 'Map Based Reports', 'VAR Trainee Quiz', 'VAR Documentation', 'VAR Statistics', 'VAR GIS Extract Tool - Shapefile', and 'VAR Proximity Report'. The 'VAR Reports' option is highlighted with a white background and a right-pointing arrow.

- VARs ▾
- Rosters ▾
- He
- Create New VAR
- Downloadable Forms
- VAR Reports ▶
- Search VAR Data ▶
- Map Based Reports ▶
- VAR Trainee Quiz
- VAR Documentation
- VAR Statistics
- VAR GIS Extract Tool - Shapefile
- VAR Proximity Report

**SPARCS**

GNWT ENR FMD HQ FS

# Values At Risk Documentation

[View](#) [Edit](#) [Outline](#) [Devel](#)

Submitted by [root](#) on Wed, 2009/04/29 - 13:41  
Posted in [SPARCS](#)

The *Values At Risk* subsystem (VARs) will provide a management interface for Creating and Maintaining VAR Records for each VAR in ea... also provides a rich and easy classification system for the purposes of Spatial Display and Policy is... (Democratic), keyword base

***New users***

- ▶ [VAR Creation Guide](#)
- [Autoloaded Data](#)
- [How to download VAR filed forms](#)
- [VAR Collection Filed Guide](#)
- [VAR Images](#)
- ▶ [VAR Reports](#)
- [Map Based Reports](#)
- ▶ [VAR Searches](#)
- [Archiving a VAR](#)
- [VAR GIS Extract](#)
- [VAR Filed Verification Notes](#)

***Training***

***Staff Orientation***

***Certification***



VARs ▾ Rosters ▾ He

- Downloadable Forms
- Map Based Reports ▶
- VAR Trainee Quiz
- VAR Documentation**

[< Rosters](#)

[up](#)

[VAR Creation Guide >](#)

[Add child page](#) [Printer-friendly version](#) [Add new comment](#) [PDF version](#)

## Downloadable VAR Forms

The following forms are available for download:

### Attachment

[Values at Risk Form in PDF Format](#)

[Values at Risk Form and Hazzard Assesment Form in PDF Format](#)

[Values At Risk Field Guide in PDF Format](#)

[Values at Risk Form for the Public in PDF Format](#)

# Filed Work



**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?): \_\_\_\_\_

**Geographic Location:** Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
**Description of Location:** \_\_\_\_\_

#### 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:

First Name: \_\_\_\_\_  
Last Name: \_\_\_\_\_  
Phone Number: ( ) \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_

#### Additional Comments:



*One stop shop*

*Comprehensive  
Verification  
Strategy*

*Regional Planing*



## Downloadable VAR Forms

The following forms are available for download:

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[Values at Risk Form in PDF Format](#)

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[Values At Risk Field Guide in PDF Format](#)

[Values at Risk Form for the Public in PDF Format](#)



### Short Descriptive Name (What

**Geographic Location:** Latitude  
**Description of Location:**

#### Human Life:

- Occupied
- Unoccupied
- Occupancy Unknown
- Non-Habitable

### Is there hazardous material a

#### Collection Details for Owner of

**First Name:** \_\_\_\_\_  
**Last Name:** \_\_\_\_\_  
**Phone Number:** (    ) \_\_\_\_\_  
**E-Mail Address:** \_\_\_\_\_

# Filed Work

## Information Required for Verification of VAR S

### Verification Method: \*

Not Verified  
Not Verified  
First-Hand Knowledge  
Field Verification

Format: 10/05/2010

### Verified By: First Name:

\_\_\_\_\_



### Verified By: Last Name:

\_\_\_\_\_



### Verification Notes:

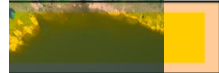
\_\_\_\_\_



Year: \_\_\_\_\_

\_\_\_\_\_ and knowledge

\_\_\_\_\_



07/10/2009  
9:53:50 AM



*One stop shop*

*Comprehensive  
Verification  
Strategy*

*Regional Planing*

# A VAR . . .

- *Quick access*
- *Classification*

▼ **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 between similar items.

**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: \***

+  Hazardous Material (YES)

?+ Check if hazardous material is present.

**Keywords (comma separated): \***

?+

# A VAR . . .

- Quick access
- Classification
- Owner Information

## [15304] Kevin Lys/Cameron Phillips Hunting & Fishing Cabin on Long Lake

[View](#) [Edit](#) [Outline](#) [Revisions](#) [Devel](#)



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

## [15304] Kevin Lys/Cameron Phillips Hunting & Fishing Cabin on Long Lake

[View](#) [Edit](#) [Outline](#) [Revisions](#) [Devel](#)

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

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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

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**Archive Admin:**

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[Photos](#)

# A VAR . . .

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

## 15304] Kevin Lys/Cameron Phillips Hunting & Fishing Cabin on Long Lake

[View](#) [Edit](#) [Outline](#) [Revisions](#) [Devel](#)

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 De**

Kevin Lys

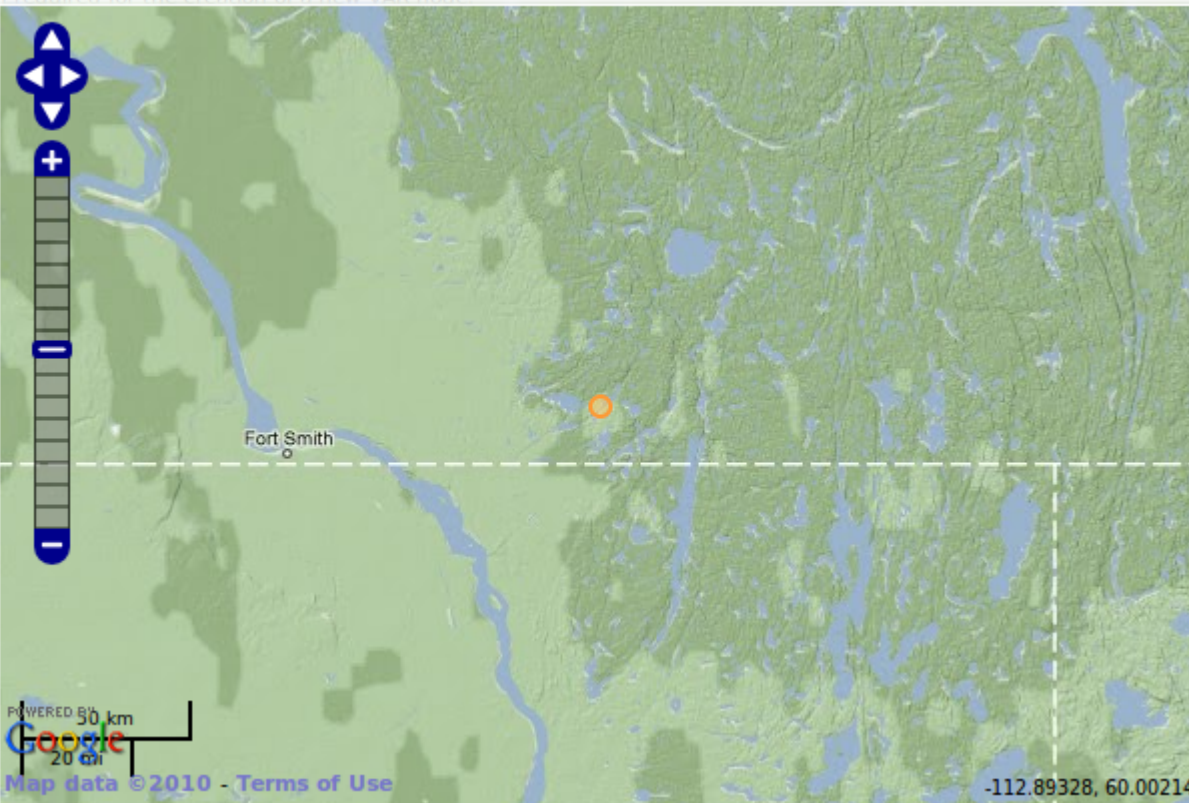
**Category**

Human L

**Region:**

Hazardo

**Keyword**



### Inform

Collection

**Verificat**

**Date of V**

**Verified**

**Verified**

**Verificat**

(field verif

### Contact

Fields for

**First Nam**

**Last Nam**

**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.

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[Photos](#)

# A VAR . . .

- Quick access
- Classification
- Owner Information
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- Map View

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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 this VAR

**Short Description:**  
Kevin Lys/Cameron Phillips  
**Category:**  
Human Land Use  
**Region:**  
Hazardous Waste  
**Keyword:**



### VAR Location

o POINT(-117.5858 61.2581)

### Lat Long Convert

**Lat:**

56.789

Latitude in D.D, D M.M' or D M'S.S"

**Lon:**

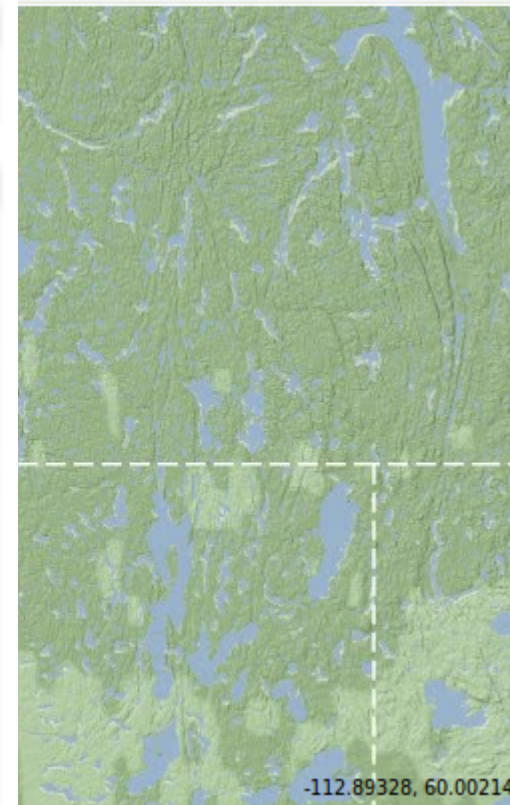
123.45678

Longitude in D.D, D M.M' or D M'S.S"

**DD:**

**DM:**

**DMS:**



-112.89328, 60.00214

### Contact Information

Fields for contact information

**First Name:**

**Last Name:**

**Phone Number:** 8678724357

**Address:** #13 Ptarmigan St. Box 2222, Yellowknife, NT X1A 2S2

**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
- Map View

## 15304] Kevin Lys/Cameron Phillips Hunting & Fishing Cabin on Long Lake

[View](#) [Edit](#) [Outline](#) [Revisions](#) [Devel](#)

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 this VAR

**Short Description:**

Kevin Lys/Cameron Phillips

**Category:**

Human Land Use

**Region:**

Hazardous Waste

**Keyword:**



### Information

**Collection:**

**Verification:**

**Date of Verification:**

**Verified:**

**Verified:**

**Verification:**

(field verification)

### Contact

**Fields for:**

**First Name:**

**Last Name:**

**Phone Number:**

**Address:**

**Contact Notes:**

You can also contact Dallas Phillips at 8678722121 (days) and 8678722121 (nights)

Proponent generally stores small amounts of fuel (gasoline) in two. Originally this VAR was listed as a residential site maybe 3 or 4 times during the summer months.

FOAM# SM-5015

**Operational Status:** Active - V.A.

**Approved:** Approved

**Archive Admin:**

active

### Photos

### VAR Location

o POINT(-119.8007 61.2959)

### Lat Long Convert

**Lat:**

56.789

⊕ Latitude in D.D, D M.M' or D M'S.S"

**Lon:**

123.45678

⊕ Longitude in D.D, D M.M' or D M'S.S"

**DD:**

wkt: POINT(-123.45678

56.789)

Lat: 56.789

Lon: 123.45678

**DM:**

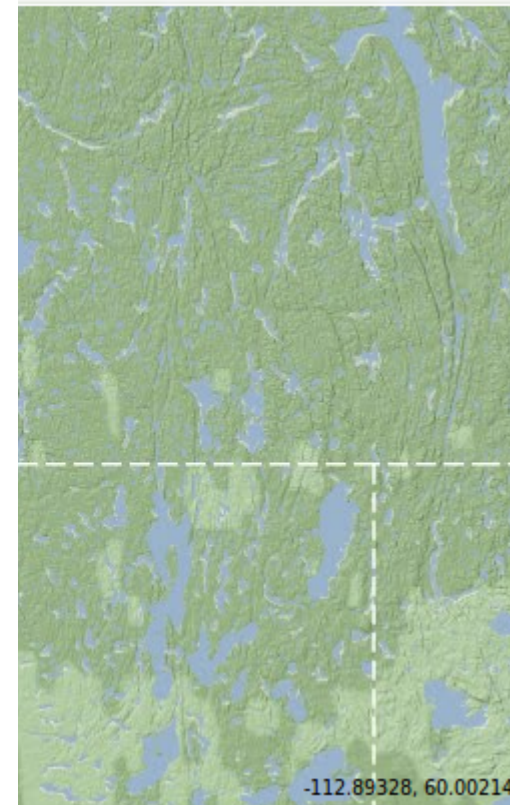
Lat: 56 47.34'

Lon: 123 27.4068'

**DMS:**

Lat: 56 47' 20.4"

Lon: 123 27' 24.408"



This cabin is co-owned by Dallas Phillips and Cameron Phillips. Cam can be contacted at 8678722121 (days) and 8678722121 (nights).

This site is used for storage of a couple jerry cans or very rarely the odd drum or two during the winter months. This site only occupied/visited during the summer months.

# A VAR . . .

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

## 15304] Kevin Lys/Camero

View Edit Outline Revisio

Submitted by Dallas Phillips on Thu, 20  
Posted in South Slave Habitable Struct

### Required Information

Information required for the creation

#### Short De

Kevin Lys

#### Category

Human L

#### Region:

Hazardo

#### Keyword



### Inform

Collection

#### Verificati

Date of V

Verified

Verified

Verificati

(field verif

### Contact

Fields for

First Name

Last Name

Phone Number: 8678724357

Address: #13 Ptarmigan St. Box 1

Contact Notes: You can also conta  
8678722121 (days) and 867872472

Proponent generally stores small amou  
two. Originally this VAR was listed as "  
maybe 3 or 4 times during the summer

FOAM# SM-5015

Operational Status: Active - VAR re

Approved: Approved

Archive Admin:

active

### Photos

### Var Images:



[15304] Kevin Lys/Cameron Phi  
& Fishing Cabin on Long Lake



14

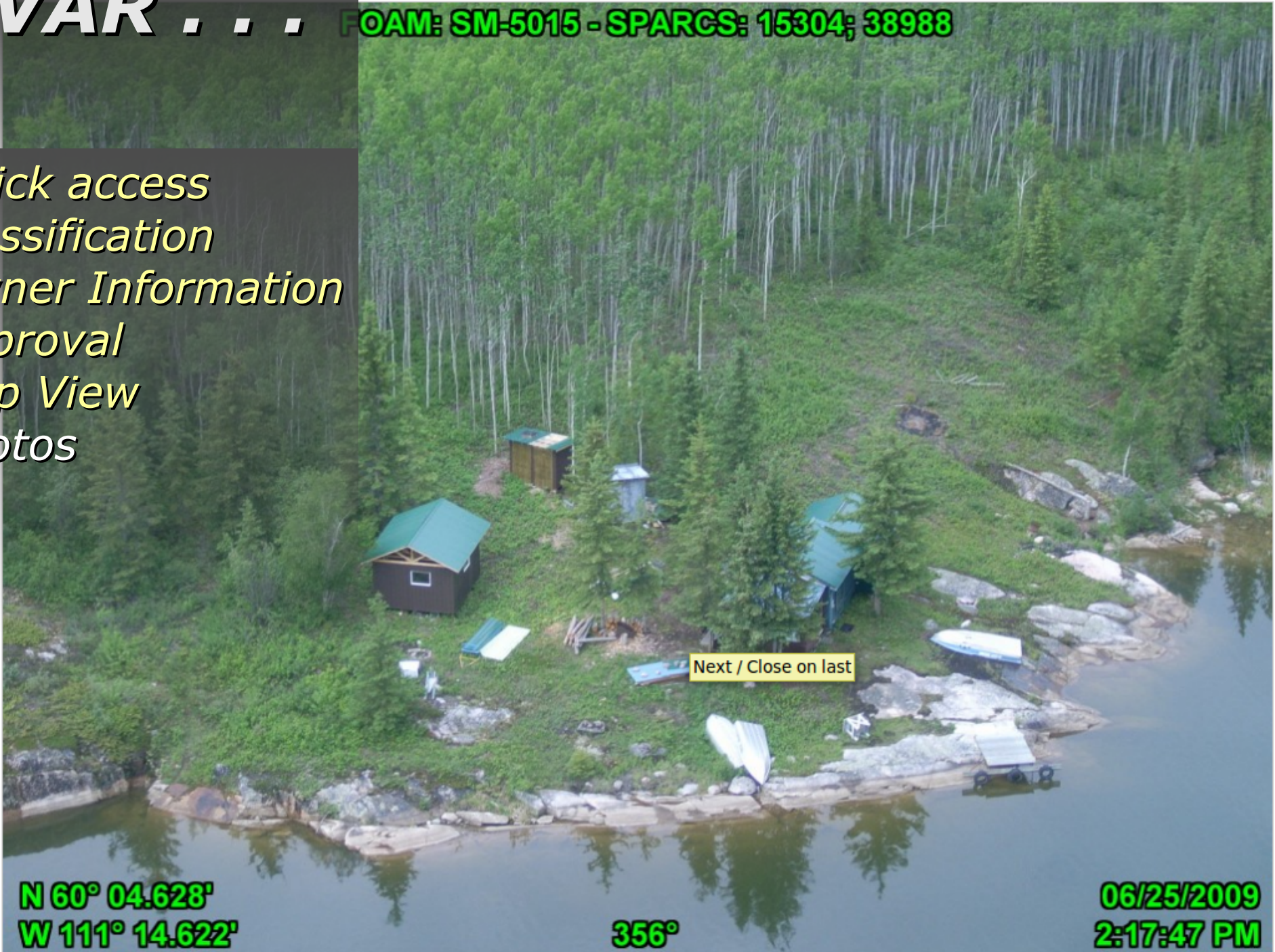
um or  
d



# A VAR . . .

FOAM: SM-5015 - SPARCS: 15304; 38988

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



**N 60° 04.628'**  
**W 111° 14.622'**

**356°**

**06/25/2009**  
**2:17:47 PM**

# A VAR . . .

- Quick access
- Classified to
- Owner Information
- Approval
- Map View
- Photos

# This tool is SOO cool



15304] Kevin Lys/Camero

View Edit Outline Revisio

Submitted by Dallas Phillips on Thu, 20  
Posted in South Slave Habitable Struct

### Required Information

Information required for the cre

Short P

Region:

Hazardo

Keyword

### Inform

Collection

Verificat

Date of V

Verified

Verified

Verificat

(field verif

### Contact

Fields for

First Nam

Last Nam

Phone Number: 8678724357

Address: #13 Ptarmigan St. B

Contact Notes: You can also c

8678722121 (days) and 86787

Proponent generally stores small a  
two. Originally this VAR was listed  
maybe 3 or 4 times during the su

FOAM# SM-5015

Operational Status: Active - VA

Approved: Approved

Archive Admin:

active

### Photos

### Var Images:

FOAM: SM-5015; SPARCS: 15304; Kevin Lys Cabin



### VAR Location

o POINT(-119.8007 61.2959)

### Lat Long Convert

Lat:

56.789

Latitude in D.D, D M.M' or D M'S.S"

Lon:

123.45678

Longitude in D.D, D M.M' or D M'S.S"

wkt: POINT(-123.45678

56.789)

Lat: 56.789

Lon: 123.45678

DM:

Lat: 56 47.34'

Lon: 123 27.4068'

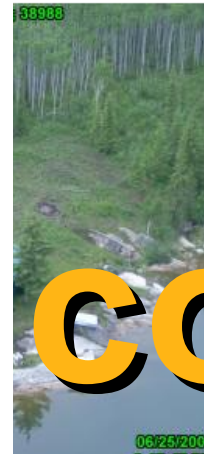
DMS:

Lat: 56 47' 20.4"

Lon: 123 27' 24.408"

Convert

07/10/2009  
9:53:50 AM



06/25/2009  
2:14

[15304] Kevin Lys/Cameron Phi  
& Fishing Cabin on Long Lake



N 60° 04' 63.2"

W 41° 14' 72.1"

55°  
719 ft

07/10/2009  
10:35:03 AM

FOAM: SM-5015; SPARCS: 15304; Kevin Lys Cabin  
Main Structure



# Searching

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

OpsDisplay Weather VARs Rosters Help My Stuff

Logged in as [username]@gov.nt.ca since: 2010-09-21 01:31:54

**Home**

**Search By VAR ID**

You are viewing a VAR Management System. Use the "Ctrl" key to deselect values.

**To see results you must enter a full VAR ID number.**

**Search for Sparcs VAR ID:**

Is equal to

42833

Region	Category
South Slave	Infrastructure - Non

**SARCS VAR ID**      **Title**

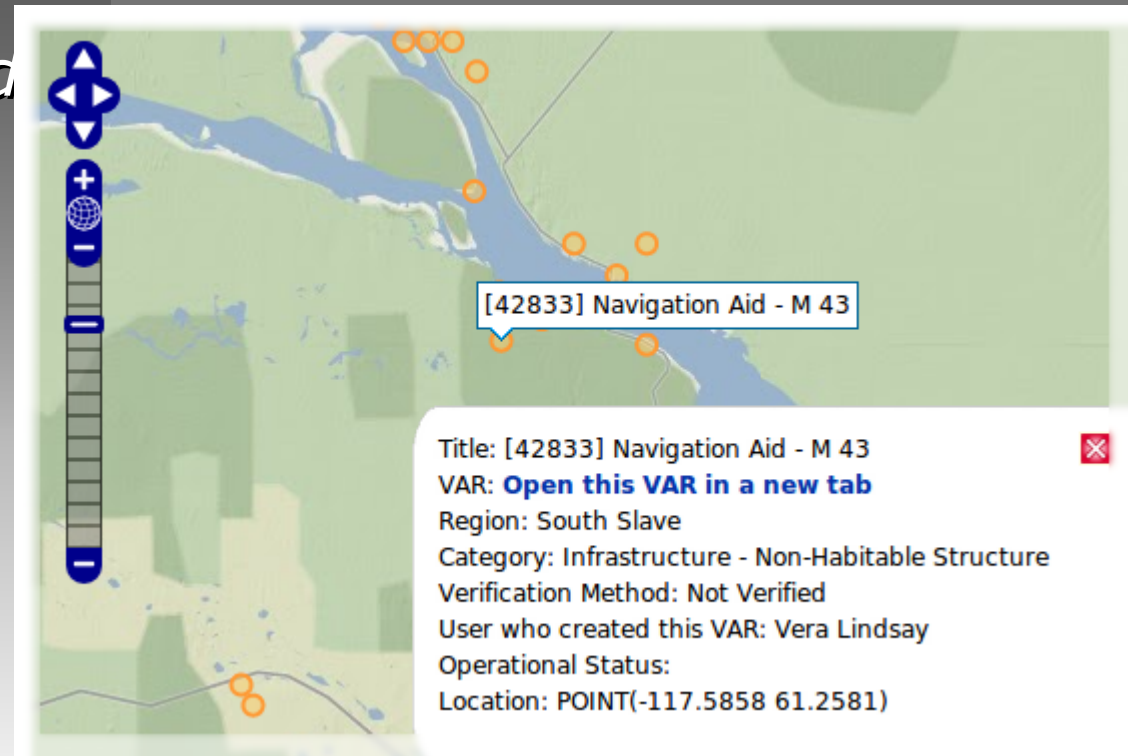
42833	[42833] Navigation Aid - M 43
-------	-------------------------------

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 records*



# GIS Extract

Welcome to the VAR GIS Extract Page.

**Please note the following before proceeding with downloading data:**

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, can not be utilized 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 vq

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

[Download Zipped Shapefile for vq region](#)

Output for zf

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

[Download Zipped Shapefile for zf 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](#)

*Download shape file*

# Proximity Reports

Logged in as: Vera Lindsa

**Home**

## Opsdisplay Var Proximity Report

+ **Fires**

+ WARNING: This is beta product for the 2010 s  
Nothing is more concrete than a proximity an  
you can file a bug report but it will not be a p

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

**Proximity Distance:**  
10 km ▾  
5 km mity.  
10 km  
15 km  
20 km Report  
30 km  
40 km brings the benefit of Web 2.0 and the lates  
50 km  
70 km

# Proximity Reports

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

This report lists proximity values for the distance radius is not exact. When in doubt choose a larger radius.

Logged in as: Vera Lindse

[Home](#)

### Opsdisplay Var Proximity Report

**Fires**

WARNING: This is beta product for the 2010 s  
Nothing is more concrete than a proximity an  
you can file a bug report but it will not be a p

**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

Report

brings the benefit of Web 2.0 and the latest

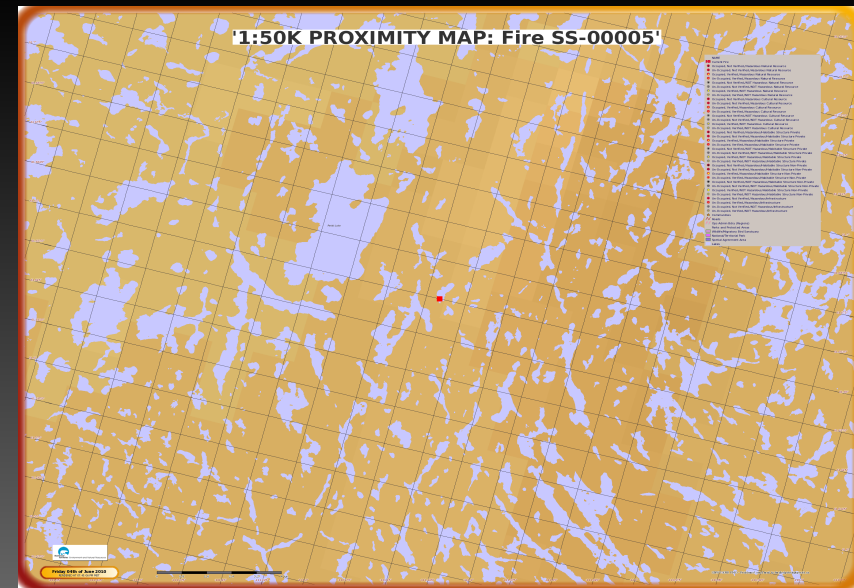
ID Code	VAR Desc.	Latitude dd.d	Longitude dd.d	Link to VAR Record
38993	HYDRO DEVELOP. O.I.C. at TALTSON R. & NONACHO LK	60.4166666667	-111.35	<a href="#">Link to VAR</a>
38996	HUNT/FISH CABIN L. APPL. at TRUDEL LAKE	60.355	-111.3133333333	<a href="#">Link to VAR</a>
41243	Twin Gorges Hydro Dam	60.4166	-111.3666	<a href="#">Link to VAR</a>
42674	M. Siurko & Craig Walsh Cabin on Trudel Lake	60.3547166667	-111.3143	<a href="#">Link to VAR</a>
43111	Louis Beaulieu tentframe	60.4236	-111.308	<a href="#">Link to VAR</a>
43155	trad. use cabin lease at lynn lake	60.3305555556	-111.2722222222	<a href="#">Link to VAR</a>

[Back to SPARCS](#) | [Another Proximity Report](#)

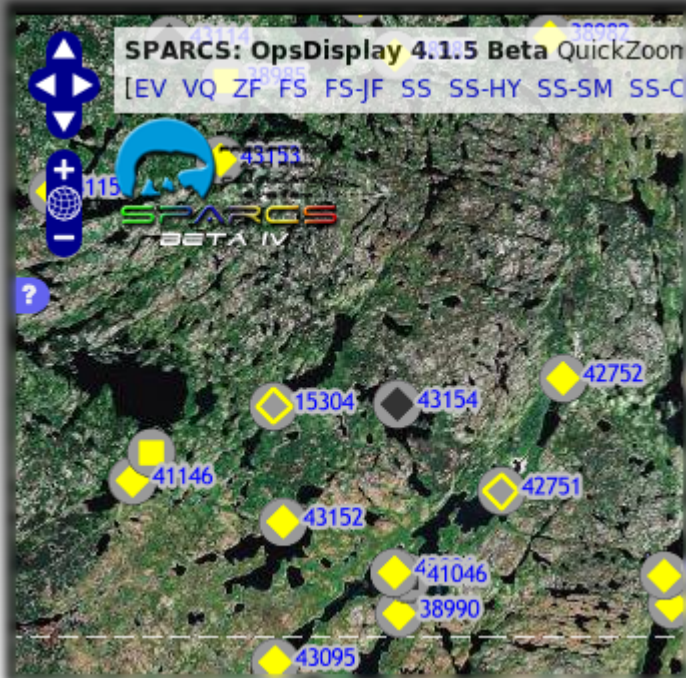
Accuracy versus decimal places

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)*





# Values At Risk

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

## ***Future Directions***

- *Public*
- *Lines and Polygons*
- *VARs Expire*

SPARCS

GNWT ENR FMD HQ FS

# Values At Risk

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**Questions?**

THE SPATIAL  
PRECIPITATION  
AND RISK  
CALCULATION  
SYSTEM

SPARCS

GNWT ENR FMD HQ FS

# Values At Risk

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

***Thank you***

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