



SensorBay

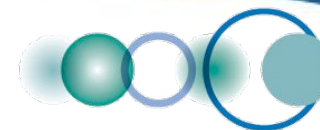
SensorBay - Integrating and Exposing Sensor Data Through Open Standards

Robert Thomas

Compusult

rthomas@compusult.net





Company Background

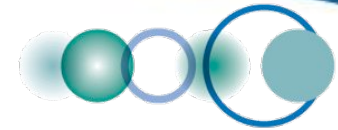


- Head Office in Mount Pearl, NL, Canada.
- A U.S. subsidiary, Compusult Systems, Inc. in the Washington D.C area.
- Branch offices in Halifax, Nova Scotia, and Ottawa, Ontario.
- In operation for 23 Years
- Innovative and Diversified Products and Services
- A Global Leader in implementing OGC specifications and standards
- Specialists in:
 - Geospatial Portal Development and Deployment
 - Geomatics and Geographic Information Systems
 - Internet and Web-based Applications and Services
 - Relational Database Management Systems
 - Assistive Technology for Persons with Disabilities
 - Automatic Identification & Data Capture (AIDC) Solutions
 - Custom Electronics & Integrated Systems

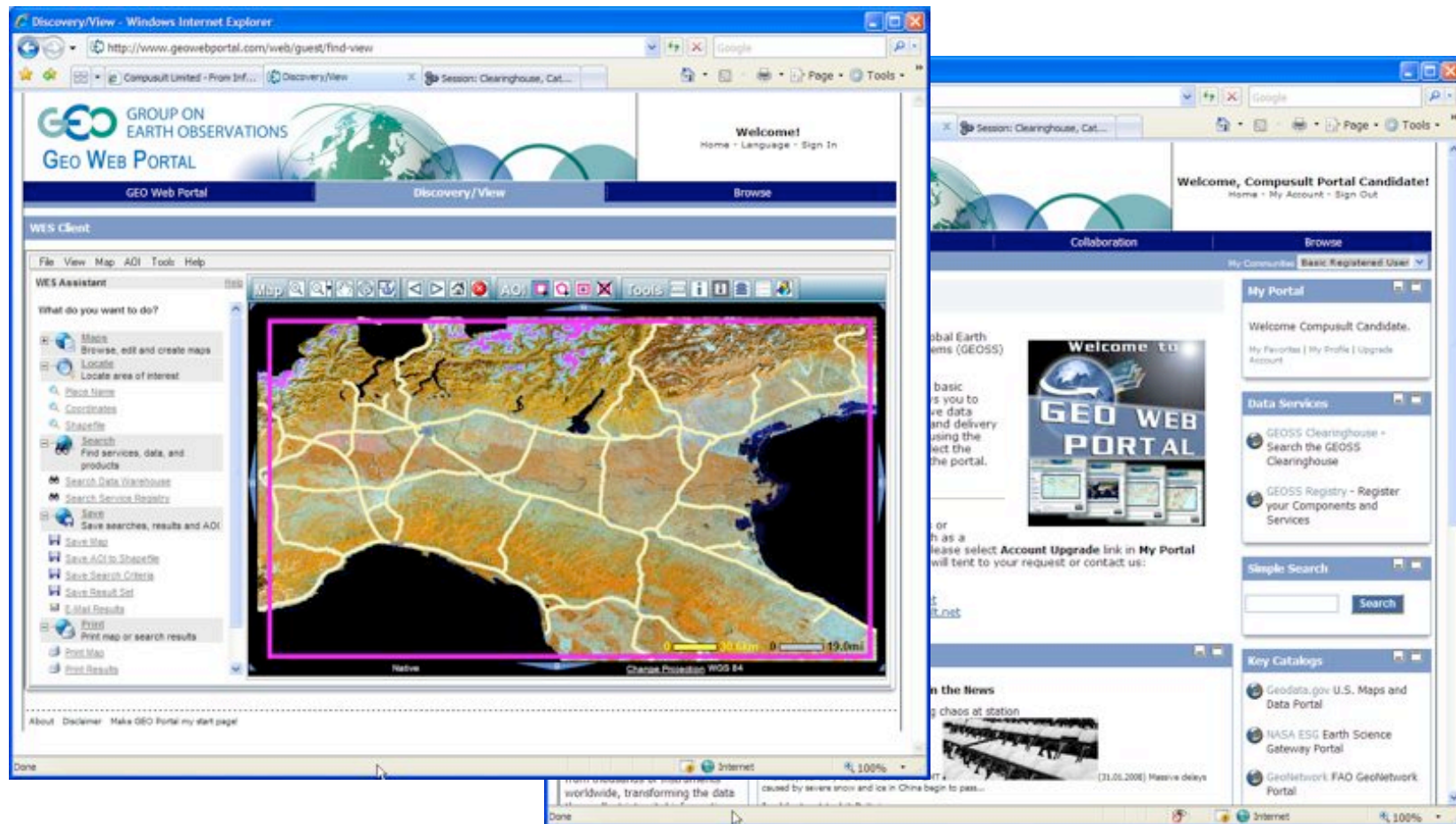


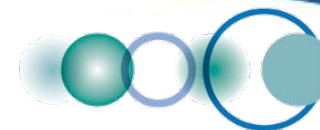
Delivering Innovative Solutions to the World



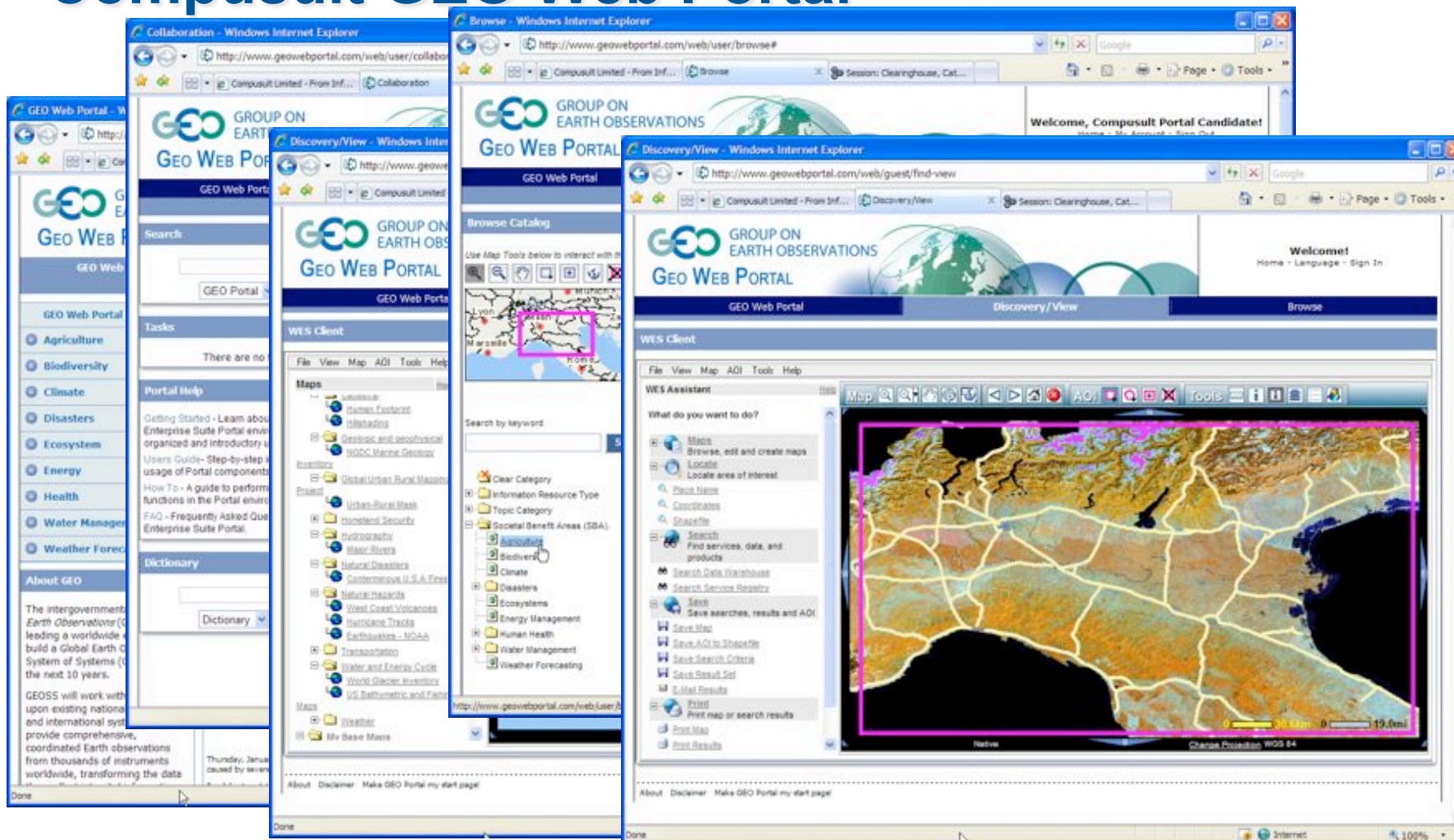


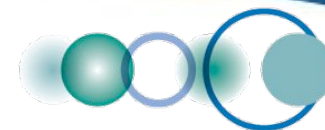
Compusult's Participation in GEOSS





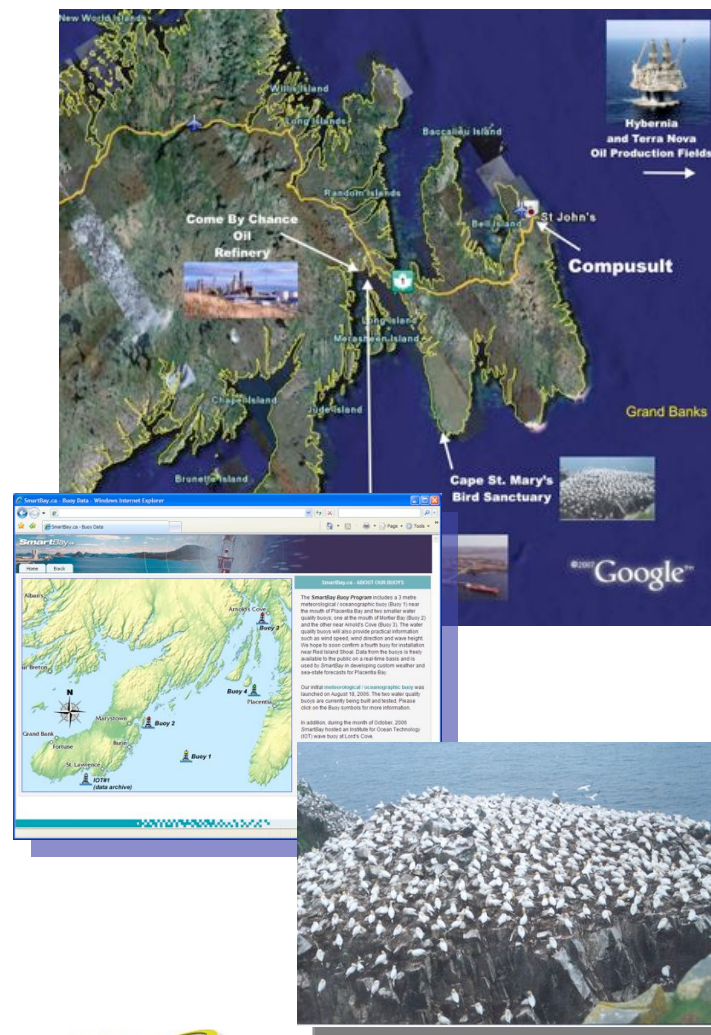
Compusult GEO Web Portal

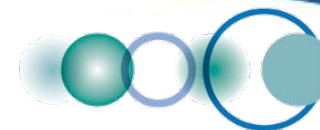




SensorBay Project

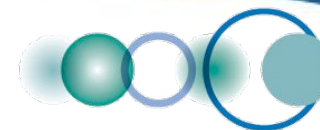
- Compusult is supporting the OGC Sensor Web Enablement initiative and is expanding our products to provide access to these Web-based services:
 - Sensor Observation Service
 - Sensor Planning Service
 - Sensor Alert Service
- It has focused on a large marine area and its community needs as related to fishing, industrial development, environmental monitoring/management, and safety.
- Oceanographic, meteorological, radiation and other sensors will be deployed on fixed and mobile platforms.
- SensorBay will also link to other Web portals.



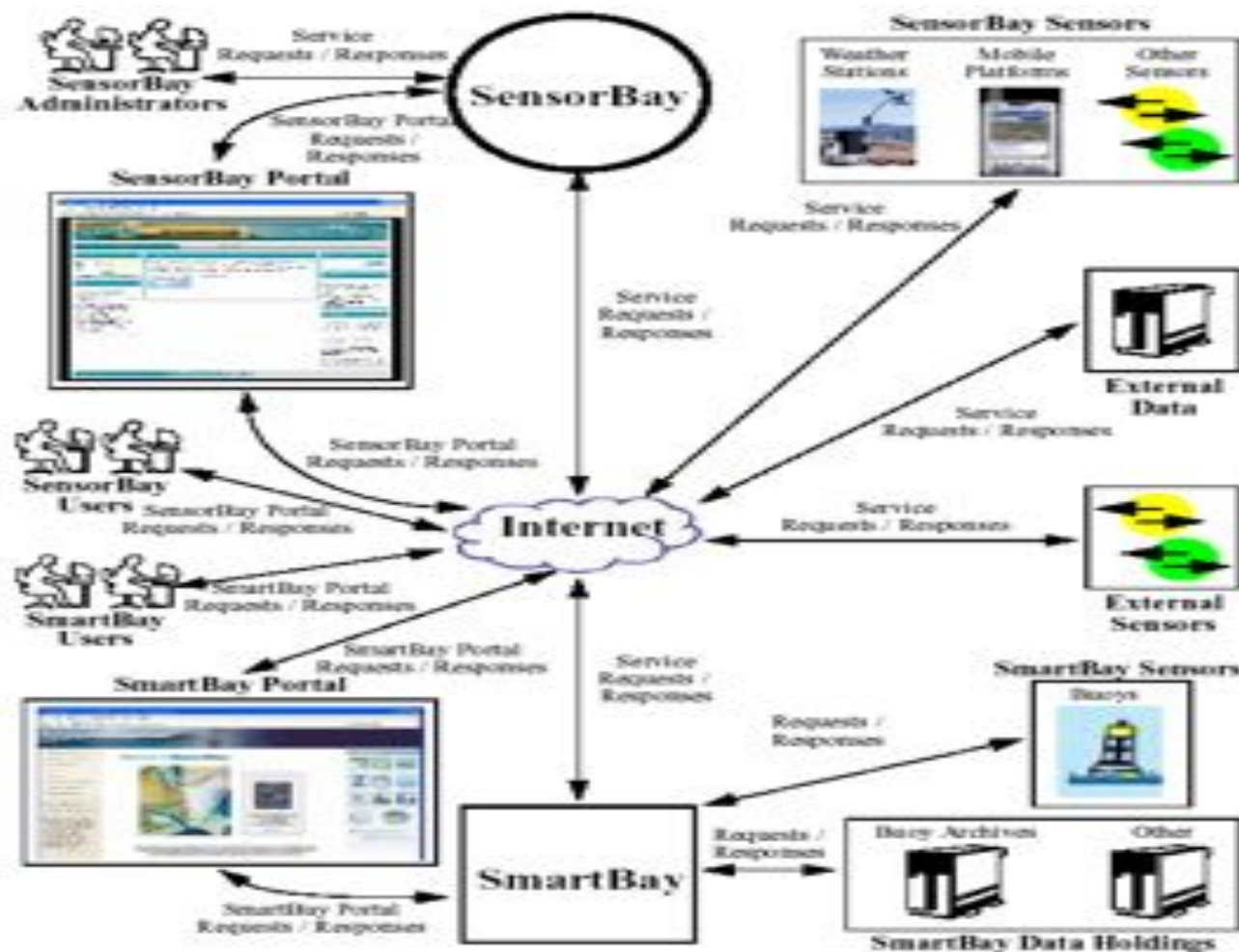


Deployed Sensors





SensorBay Architecture




SensorBay - Sensor discovery and Connectivity via OGC Standards - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/home

Google

SensorBay - Sensor discovery and Connectivity via O...


Page Tools





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Sensors


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
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City or Zip Code

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Portal Help

Getting Started - Learn about the Web

Welcome to SensorBay portal




Go To Map

Welcome to the SensorBay portal. This site is focused on the [Open Geospatial Consortium](#) (OGC) Sensor Web Enablement (SWE) initiative. The SensorBay project is led by [Compusult](#) in cooperation with the [Canadian Centre for Marine Communications](#) (CCMC).

SensorBay consolidates and makes discoverable a community of sensors in, on, and around Placentia Bay, Newfoundland. Schools, private sector organizations, and government agencies are collaborating to SensorBay, each providing key personnel, facilities, tools, and applications to make the combined sensor data accessible via the Canadian Geospatial Data Infrastructure (CGDI). To access the available sensor data and other related information, please select the [Find/View](#) tab at the top of this page.

Placentia Bay



Placentia Bay is a body of water on the southeast coast of [Newfoundland, Canada](#). It is formed by Burin Peninsula on the west and Avalon Peninsula on the east. Native people used fishing grounds in the bay long before the first European fishermen arrived in the 1500s.

For a time, the French controlled the bay. They built their

About

This site has been deployed using [Compusult Limited's Web Enterprise Suite](#), an integrated suite of standards-based applications that provide cataloging, discovery, retrieval, delivery, web mapping and e-commerce services. The portal container environment is provided by [Liferay](#).

OGC News

OGC News Feed [More »](#)

[OGC Announces Another Government Agency Chooses OGC Standards](#)

[OGC Approves KML as Open Standard](#)

[OGC Adopts ebRIM Application Profile for Catalogues](#)

[OGC Announces Call for Sponsors and Alliances in Interoperability Initiatives](#)

[OGC\(r\) and OASIS Announce](#)

Demo

SensorBay - Sensors - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/sensors

SensorBay - Sensors

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[Getting Started](#) - Learn about the Web Enterprise Suite Portal environment, how it is organized and introductory usage.

[User's Guide](#) - Step-by-step instructions on usage of Portal

SensorBay Sensors



[Select image to view map](#)

SensorBay consolidates and makes discoverable a community of sensors in, on, and around Placentia Bay, Newfoundland. Schools, private sector organizations, and government agencies are collaborating to make SensorBay a success, each providing key personnel, facilities, tools, and applications to make the combined sensor data accessible via the Canadian Geospatial Data Infrastructure (CGDI).

SensorBay will allow anyone with an interest in issues affecting the Placentia Bay region to benefit from the applications and information that a community of sensors offers. For example, if an oil spill occurs in the bay, local interests and response personnel can use the sensor information to assist with real-time assessments of potential impacts on communities, coastlines, sensitive areas, etc. The image above presents a map of the Placentia Bay region and identifies existing sensors, data sources, and locations of interest.

The currently available sensors and data sources include:


- CCMC's SmartBay Buoys
- Environment Canada Water Quality Data
- Meteorological Data from Compusult Weather Stations and Environment Canada stations
- Oceanographic Data
- Government of Newfoundland and Labrador Water Level / Flow Data
- Ship Traffic Data from Compusult-owned AIS Receivers


SensorBay provides the following innovations:

- new and improved OGC-compliant modules for Compusult's Web Enterprise Suite (WES) product line;
- implementation of the latest OGC standards for Web-based sensor discovery and

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What's New

 **Web Enterprise Suite (WES)**
Version 10.3 is now shipping.
[More...](#)

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Featured Maps

Featured Context Maps are predefined map links that are based upon geospatial theme content. When a link is selected, the portal switches to the Map Viewer with the selected Featured Context map displayed in the Map Viewer window. You are provided with tools that allow you to zoom, pan and identify content and you can use the selected predefined map as a starting point for generating your own maps.

Internet 100%

SensorBay - SmartBay Buoy Data - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/smart-bay-buoy-data

SensorBay - SmartBay Buoy Data

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SmartBay Buoy Data



A 3 metre diameter meteorological/oceanographic buoy built by AXYS Environmental Technologies of Sidney, British Columbia. The buoy is positioned at the mouth of Placentia Bay in a water depth of about 230 metres. The buoy is capable of measuring a variety of atmospheric and surface conditions including, wind speed and direction, air temperature, humidity, dew point, barometric pressure, water temperature, salinity, current speed, current direction, wave height, wave direction and wave period.

Data from the buoy is available in near-real time and is utilized by SmartBay partner AMEC Earth and Environmental to generate custom weather and sea-state forecasts for Placentia Bay.

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Saratoga-weather.org Scripts Update Status [More...](#)

- 12-May-2008: WWSIM forecast display and icons (plaintext-parser.php)
- 12-May-2008: Carderlake-shile AJAX/PHP Website Template package for Weather-Display (WD-AJAX-PHP.zip)
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- 25-Apr-2008: USGS World Earthquake PHP script (quake-WORLD.php)

Done

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SensorBay - Water Quality - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/water-quality

SensorBay - Water Quality

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Water Quality



Environment Canada Water Quality Monitoring Data

RésEau is a Government On-Line demonstration initiative that focuses on water information. RésEau supports clean, safe, and secure water for all Canadians and ecosystems. Specifically, RésEau establishes partnerships and projects to demonstrate the sharing, discovery, access, and use of water information over the internet.

The initiative is led by Environment Canada in partnership with Natural Resources Canada and Health Canada. Its user-driven focus targets information for a wide range of generalists and specialists - from high school-level youth to water resource managers.



Exploring the Use of SensorML to Deliver Station-Level Water Information

The growing adoption of OGC Sensor Web Enablement (SWE) standards and technologies to deliver station level metadata has been explored as a key RésEau demonstration to provide monitoring information in an internationally-recognized format.

Previous efforts in facilitating access to information have focused on providing users with descriptive information about monitoring programs, their stations, and which parameters are measured at a particular station. New efforts under RésEau respond to users' desire to progress further to access raw or interpreted data at a station once introductory information has been provided.

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SensorBay - Meteorological - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/meteorological

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Meteorological

The meteorological sensor system includes the dynamics of the atmosphere and its interaction with the oceans and land. Weather includes those local or microphysical processes that occur in minutes through the global-scale phenomena that can be predicted with a date an estimated maximum of two weeks prior. The weather theme is important for two reasons. First, the improvement of our understanding of weather processes and phenomena is crucial in gaining an understanding of the Earth system. It is directly related to the Climate and Water/Energy Cycle.

SensorBay will contribute to the national weather forecasting, and will continue in the future, primarily through the development and use of data from sensors. Sensor-based profiles of wind-speed, temperature and moisture etc, will be routinely used in the operational system, and new sensors hold promise for more accuracy and spatial resolution. These new sensors will provide dramatic improvements in the operational use of sounding data for real-time diagnose of weather problems such as severe storms.

The Davis Weather station.

Uses frequency hopping spread spectrum radio to transmit and receive data up to 1000' (300 m) line of sight. That's over three football fields in length and three times farther than other stations on the market.

The weather station offer such things as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance, sunny, partly sunny, cloudy, rain or snow, while a moving ticker-tape display gives more details. The integrated sensor suite rain collection, temperature and humidity sensors, and anemometer

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SensorBay - Oceanographic - Windows Internet Explorer

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SensorBay - Water Level / Flow - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/water-level-flow

SensorBay - Water Level / Flow

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Water Level / Flow

THE HYDROMETRIC NETWORK



Currently, there are 2946 active water level and streamflow stations being operated under the federal-provincial and federal-territorial cost-sharing agreements. Data for 1436 of the 2946 active stations are transmitted in near real-time. An additional 5470 hydrometric stations are no longer active, but their data are stored with the active station data in the national HYDAT database.

Most of the stations are located in the southern half of the country where the population and economic pressures are greatest. As a result, the adequacy of the network to describe hydrologic characteristics, both spatially and temporally, decreases significantly to the north. Hydrometric stations are located on lakes, rivers, and streams of many sizes, ranging from drainage basins as small as a few hectares to large watersheds like the Mackenzie Basin (1 680 000 km²).

At each station, water level data are recorded continuously, either on graph paper using a mechanical (analogue) recorder, or in digital form using an electronic recorder, or "data logger". The determination of the rate of flow, or discharge, of a river requires several measurements of water depth and velocity across the river to yield the average discharge. Streamflow measurements can be made from a bridge, by wading the stream, by boat, or from a cableway strung across the river. Such measurements are done periodically to define a relationship between water level and discharge, which is used to generate a time series of streamflow data from the recorded water level data.

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SensorBay - AIS Receivers - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/ais-receivers

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AIS Receivers

SR 162 AIS RECEIVER you can display any AIS equipped vessel within VHF range on any type of AIS adapted display system. Information transmitted from vessels fitted with AIS Transponders include name, call sign, position, heading, speed, destination, type and size of vessel. The SR 162 AIS RECEIVER is compatible with any chart/ECS and radar system capable of accepting standard NMEA 0183 AIS sentences.

The installation is quick and simple, requiring only the connection to a VHF antenna, and computer (PC). SR 162 AIS RECEIVER is the perfect complement to radar and has an international standardized interface to various display systems like Electronic Chart Systems (ECS) or radars.

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Services


The Services used by the SensorBay portal have adhered to four standard interface definitions for web services using criteria outlined by the [OGC \(Open Geospatial Consortium\)](#).

Sensor Observation Service (SOS)
A standard web service interface for requesting, filtering and retrieving observations and sensor system information.

Sensor Planning Service (SPS)
A standard web service interface for requesting user-driven acquisitions and observations.

Sensor Alert Service (SAS)
A standard web interface for publishing and subscribing to alerts from sensors.

Web Notification Services (WNS)
A standard web service interface for asynchronous delivery of messages or alerts from SAS and SPS web services and other elements of service workflows.



Simple Search

OGC Specification Documentation

- [Sensor Observation Service \(SOS\).pdf](#)
- [Sensor Planning Service \(SPS\).pdf](#)
- [Sensor Alert Service \(SAS\).pdf](#)
- [Web Notification Services \(WNS\).pdf](#)

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What's New

Compusult encourages the participation of communities of users who wish to participate in and contribute to OpenOffice. For more information on how you can

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SensorBay - User Scenario's - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/scenarios

SensorBay - User Scenario's

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[User's Guide](#) - Step-by-step instructions on usage of Portal components.


[How To](#) - A guide to performing common functions in the Portal environment.

User Scenarios

The user scenarios area will show and demonstrate how the SensorBay portal and its technology may be beneficial to various end users. The scenarios presented here are hypothetical and may reference sensors that exist or may exist at some time in the future. The intention is to demonstrate usability.

Scenario 1: Oil Spill in Placentia Bay

An oil detection sensor alerts the SensorBay portal that a significant oil spill has been detected in the water in the Long Harbour area. Alerts are immediately sent out by the system to first responders identified within the system database.



The SensorBay portal is then queried to locate and identify all ship traffic within the area for the last 24 hours. The results are plotted on the map layer and the information is sent to first responders and to the Canadian Coast Guard (CCG).

Through the portal interface, an area of interest (AOI) is defined and sensors of interest such as meteorological stations are selected. The system is then queried for all data from these sensors for the last 48 hours and weather conditions in the area are then trended, graphed and displayed.

Within the AOI, sensors related to sea surface conditions including temperature, wave height and ocean currents are identified and data from these sensors is

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shock waves capable of destroying transmission line structures.

Scenario 3: Flooding in the Community of Piacenza

Based on weather forecasts that are monitored by the SensorBay portal, an alert is generated indicating the possibility of flooding in the Piacenza area.



An area of interest (AOI) is defined in the affected area and weather sensors measuring precipitation are identified and queried for data. This data is passed to data analysis software to predict the likelihood and potential severity of flooding.

The prediction confirms the probability of severe flooding and emergency crews are alerted and deployed.

Data relating to waterways and storm sewers is overlaid on the SensorBay maps to indicate where the most severe flooding will occur.

Throughout the flooding event, portable water level monitors are deployed and the sensors are published within the SensorBay portal. Data from these sensors is immediately available to first responders using hand-held devices with Web connectivity.

Data is input to the SensorBay portal in real-time and, when water levels crest, this information is available to all emergency personnel. Resources are re-deployed into areas with the most damage and prediction software estimates abatement of the water over time.

Sensitive areas within the flood area are identified and monitored through the SensorBay portal to aid in remediation efforts, as well as mitigation planning for similar situations in future.

Browse SensorBay Sensors and Services - Windows Internet Explorer

http://www.sensorbay.ca/web/guest/browse#

Browse SensorBay Sensors and Services

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Use Map Tools below to interact with the Map:



Search by keyword

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Clear Category

- Information Resource Type
- Topic Category
- Sensors
 - Hydrologic
 - Meteorological
 - Oceanographic
 - Other
 - Ship Traffic

Content Found By Search

Keywords: AOI: 90.0 -180.0 -90.0 180.0

Add results 1 - 5 to the map | Add top 50 results to the map

Metadata Information

Sensor ID: SFFCE815-D88E-91A3-4D6C-F3EE858A16C5

Title: Meteorological Weather Station - Mount Pearl, Newfoundland

Description: The weather stations are Davis Instruments Vantage Pro2 integrated units (NO UV Sensor). These stations include two components: the Integrated Sensor Suite (ISS) which houses and manages the external sensor array, and a console which provides the user interface, data display, A/D conversion in the ISS, calculations and interface to the external network. The stations are NIST-certified and are used around the globe by both amateurs and professional meteorologists. The units are installed at elevations of approximately 30 feet and are solar powered and operate over a temperature range of -40 to +65C (40 to +150F). Updates are provided in seconds or minutes depending on the sensor. The following outputs are available: (Temperature, Humidity, Dew Point, Wind, High Temperature, Low Temperature, Wind Direction, High Wind Speed, High Wind Direction, Wind Chill, Heat Index, Thaw Index, Barometric Pressure, Rain, Rain Rate)

Originator: GeoConnections

Rank: 0.045724737082761806

Last Updated:

[View Details](#) [View Map](#) [GetCapabilities](#) [GetObservation](#) [Describe Sensor](#)

Sensor ID: D6BA4408-5F6F-D075-1ED1-75E729342D8E

Title: Meteorological Weather Station - Arnold's Cove, Placentia Bay, Newfoundland

Description: The weather stations are Davis Instruments Vantage Pro2 integrated units (With UV Sensor). These stations include two components: the Integrated Sensor Suite (ISS) which houses and manages the external sensor array, and a console which provides the user interface, data display, A/D conversion in the ISS, calculations and interface to the external network. The stations are NIST-certified and are used around the globe by both amateurs and professional meteorologists. The units are installed at elevations of approximately 30 feet and are solar powered and operate over a temperature range of -40 to +65C (40 to +150F). Updates are provided in seconds or minutes depending on the sensor. The following outputs are available: (Temperature, Humidity, Dew Point, Wind, High Temperature, Low Temperature, Wind Direction, High Wind Speed, High Wind Direction, Wind Chill, Heat Index, Thaw Index, Barometric Pressure, Rain, Rain Rate)

Internet 100%


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http://www.sensorbay.ca/wes/CSWSearchClient/pages/metadataTranslation.jsp?uid=5FFCEB15-D80E-91 - Windows Internet Explorer

http://www.sensorbay.ca/wes/CSWSearchClient/pag...

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Page Tools



S03CW_696

The weather stations are Davis Instruments Vantage Pro2 integrated units (NO UV Sensor). These stations include two components: the Integrated Sensor Suite (ISS) which houses and manages the external sensor array, and a console which provides the user interface, data display, A/D conversion in the ISS, calculations and interface to the external network. The stations are NIST-certified and are used around the globe by both amateurs and professional meteorologists. The units are installed at elevations of approximately 30 feet and are solar powered and operate over a temperature range of -40 to +65C (40 to +150F). Updates are provided in seconds or minutes depending on the sensor. The following outputs are available: (Temperature, Humidity, Dew Point, Wind, High Temperature, Low Temperature, Wind Direction, High Wind Speed, High Wind Direction, Wind Chill, Heat Index, Thaw Index, Barometric Pressure, Rain, Rain Rate).

ISO19115 Core Elements

Title	S03CW_696
Abstract	The weather stations are Davis Instruments Vantage Pro2 integrated units (NO UV Sensor). These stations include two components: the Integrated Sensor Suite (ISS) which houses and manages the external sensor array, and a console which provides the user interface, data display, A/D conversion in the ISS, calculations and interface to the external network. The stations are NIST-certified and are used around the globe by both amateurs and professional meteorologists. The units are installed at elevations of approximately 30 feet and are solar powered and operate over a temperature range of -40 to +65C (40 to +150F). Updates are provided in seconds or minutes depending on the sensor. The following outputs are available: (Temperature, Humidity, Dew Point, Wind, High Temperature, Low Temperature, Wind Direction, High Wind Speed, High Wind Direction, Wind Chill, Heat Index, Thaw Index, Barometric Pressure, Rain, Rain Rate).
Data Set	sos
Language	eng
publication Date	2008-05-02

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CompuSut Sensor Observation Service - Windows Internet Explorer

http://www.sensorbay.ca/wes/SOSClient/main.jsp?type=GetCapabilities&accessURL=http%3A%2F%2Fsensor.com

Service Identification

Title: CompuSut Sensor Observation Service

Description: CompuSut Sensor Observation Service in Mount Pearl, Newfoundland, Canada. Reporting observations from various sensors

Keywords: CompuSut

Service Type: OGC:SOS

Version: 0.0.31

Fees: NONE

Constraints: NONE

Service Provider

Name: CompuSut Limited

Site: <http://www.compusut.net>

Service Contact Information

Name: Robert Grace

Number: 709-745-7914

Address: CompuSut Limited, Mount Pearl, NL, A1N 1W1, Canada

Operations Metadata

GetCapabilities

Get: <http://sensor.compusut.net:8080/SOS/WEB/GetCapabilitiesGFM>

Post: <http://sensor.compusut.net:8080/SOS/WEB/GetCapabilitiesGFM>

GetObservation

Get: <http://sensor.compusut.net:8080/SOS/WEB/GetObservationGFM>

Post: <http://sensor.compusut.net:8080/SOS/WEB/GetObservationGFM>

InsertObservation

Get: <http://sensor.compusut.net:8080/SOS/WEB/InsertObservationGFM>

Post: <http://sensor.compusut.net:8080/SOS/WEB/InsertObservationGFM>

Register Sensor

Post: <http://sensor.compusut.net:8080/SOS/WEB/RegisterSensorGFM>

Describe Sensor

Get: <http://sensor.compusut.net:8080/SOS/WEB/DescribeSensorGFM>

Post: <http://sensor.compusut.net:8080/SOS/WEB/DescribeSensorGFM>

Filter Capabilities

Has filter Capabilities? true

Done

Internet 100%

sensor The following sensors are available: /Tamarack, 10m, 15m, 20m, 25m, 30m, 35m, 40m, 45m, 50m, 55m, 60m, 65m, 70m, 75m, 80m, 85m, 90m, 95m, 100m, 105m, 110m, 115m, 120m, 125m, 130m, 135m, 140m, 145m, 150m, 155m, 160m, 165m, 170m, 175m, 180m, 185m, 190m, 195m, 200m, 205m, 210m, 215m, 220m, 225m, 230m, 235m, 240m, 245m, 250m, 255m, 260m, 265m, 270m, 275m, 280m, 285m, 290m, 295m, 300m, 305m, 310m, 315m, 320m, 325m, 330m, 335m, 340m, 345m, 350m, 355m, 360m, 365m, 370m, 375m, 380m, 385m, 390m, 395m, 400m, 405m, 410m, 415m, 420m, 425m, 430m, 435m, 440m, 445m, 450m, 455m, 460m, 465m, 470m, 475m, 480m, 485m, 490m, 495m, 500m, 505m, 510m, 515m, 520m, 525m, 530m, 535m, 540m, 545m, 550m, 555m, 560m, 565m, 570m, 575m, 580m, 585m, 590m, 595m, 600m, 605m, 610m, 615m, 620m, 625m, 630m, 635m, 640m, 645m, 650m, 655m, 660m, 665m, 670m, 675m, 680m, 685m, 690m, 695m, 700m, 705m, 710m, 715m, 720m, 725m, 730m, 735m, 740m, 745m, 750m, 755m, 760m, 765m, 770m, 775m, 780m, 785m, 790m, 795m, 800m, 805m, 810m, 815m, 820m, 825m, 830m, 835m, 840m, 845m, 850m, 855m, 860m, 865m, 870m, 875m, 880m, 885m, 890m, 895m, 900m, 905m, 910m, 915m, 920m, 925m, 930m, 935m, 940m, 945m, 950m, 955m, 960m, 965m, 970m, 975m, 980m, 985m, 990m, 995m, 1000m, 1005m, 1010m, 1015m, 1020m, 1025m, 1030m, 1035m, 1040m, 1045m, 1050m, 1055m, 1060m, 1065m, 1070m, 1075m, 1080m, 1085m, 1090m, 1095m, 1100m, 1105m, 1110m, 1115m, 1120m, 1125m, 1130m, 1135m, 1140m, 1145m, 1150m, 1155m, 1160m, 1165m, 1170m, 1175m, 1180m, 1185m, 1190m, 1195m, 1200m, 1205m, 1210m, 1215m, 1220m, 1225m, 1230m, 1235m, 1240m, 1245m, 1250m, 1255m, 1260m, 1265m, 1270m, 1275m, 1280m, 1285m, 1290m, 1295m, 1300m, 1305m, 1310m, 1315m, 1320m, 1325m, 1330m, 1335m, 1340m, 1345m, 1350m, 1355m, 1360m, 1365m, 1370m, 1375m, 1380m, 1385m, 1390m, 1395m, 1400m, 1405m, 1410m, 1415m, 1420m, 1425m, 1430m, 1435m, 1440m, 1445m, 1450m, 1455m, 1460m, 1465m, 1470m, 1475m, 1480m, 1485m, 1490m, 1495m, 1500m, 1505m, 1510m, 1515m, 1520m, 1525m, 1530m, 1535m, 1540m, 1545m, 1550m, 1555m, 1560m, 1565m, 1570m, 1575m, 1580m, 1585m, 1590m, 1595m, 1600m, 1605m, 1610m, 1615m, 1620m, 1625m, 1630m, 1635m, 1640m, 1645m, 1650m, 1655m, 1660m, 1665m, 1670m, 1675m, 1680m, 1685m, 1690m, 1695m, 1700m, 1705m, 1710m, 1715m, 1720m, 1725m, 1730m, 1735m, 1740m, 1745m, 1750m, 1755m, 1760m, 1765m, 1770m, 1775m, 1780m, 1785m, 1790m, 1795m, 1800m, 1805m, 1810m, 1815m, 1820m, 1825m, 1830m, 1835m, 1840m, 1845m, 1850m, 1855m, 1860m, 1865m, 1870m, 1875m, 1880m, 1885m, 1890m, 1895m, 1900m, 1905m, 1910m, 1915m, 1920m, 1925m, 1930m, 1935m, 1940m, 1945m, 1950m, 1955m, 1960m, 1965m, 1970m, 1975m, 1980m, 1985m, 1990m, 1995m, 2000m, 2005m, 2010m, 2015m, 2020m, 2025m, 2030m, 2035m, 2040m, 2045m, 2050m, 2055m, 2060m, 2065m, 2070m, 2075m, 2080m, 2085m, 2090m, 2095m, 2100m, 2105m, 2110m, 2115m, 2120m, 2125m, 2130m, 2135m, 2140m, 2145m, 2150m, 2155m, 2160m, 2165m, 2170m, 2175m, 2180m, 2185m, 2190m, 2195m, 2200m, 2205m, 2210m, 2215m, 2220m, 2225m, 2230m, 2235m, 2240m, 2245m, 2250m, 2255m, 2260m, 2265m, 2270m, 2275m, 2280m, 2285m, 2290m, 2295m, 2300m, 2305m, 2310m, 2315m, 2320m, 2325m, 2330m, 2335m, 2340m, 2345m, 2350m, 2355m, 2360m, 2365m, 2370m, 2375m, 2380m, 2385m, 2390m, 2395m, 2400m, 2405m, 2410m, 2415m, 2420m, 2425m, 2430m, 2435m, 2440m, 2445m, 2450m, 2455m, 2460m, 2465m, 2470m, 2475m, 2480m, 2485m, 2490m, 2495m, 2500m, 2505m, 2510m, 2515m, 2520m, 2525m, 2530m, 2535m, 2540m, 2545m, 2550m, 2555m, 2560m, 2565m, 2570m, 2575m, 2580m, 2585m, 2590m, 2595m, 2600m, 2605m, 2610m, 2615m, 2620m, 2625m, 2630m, 2635m, 2640m, 2645m, 2650m, 2655m, 2660m, 2665m, 2670m, 2675m, 2680m, 2685m, 2690m, 2695m, 2700m, 2705m, 2710m, 2715m, 2720m, 2725m, 2730m, 2735m, 2740m, 2745m, 2750m, 2755m, 2760m, 2765m, 2770m, 2775m, 2780m, 2785m, 2790m, 2795m, 2800m, 2805m, 2810m, 2815m, 2820m, 2825m, 2830m, 2835m, 2840m, 2845m, 2850m, 2855m, 2860m, 2865m, 2870m, 2875m, 2880m, 2885m, 2890m, 2895m, 2900m, 2905m, 2910m, 2915m, 2920m, 2925m, 2930m, 2935m, 2940m, 2945m, 2950m, 2955m, 2960m, 2965m, 2970m, 2975m, 2980m, 2985m, 2990m, 2995m, 3000m, 3005m, 3010m, 3015m, 3020m, 3025m, 3030m, 3035m, 3040m, 3045m, 3050m, 3055m, 3060m, 3065m, 3070m, 3075m, 3080m, 3085m, 3090m, 3095m, 3100m, 3105m, 3110m, 3115m, 3120m, 3125m, 3130m, 3135m, 3140m, 3145m, 3150m, 3155m, 3160m, 3165m, 3170m, 3175m, 3180m, 3185m, 3190m, 3195m, 3200m, 3205m, 3210m, 3215m, 3220m, 3225m, 3230m, 3235m, 3240m, 3245m, 3250m, 3255m, 3260m, 3265m, 3270m, 3275m, 3280m, 3285m, 3290m, 3295m, 3300m, 3305m, 3310m, 3315m, 3320m, 3325m, 3330m, 3335m, 3340m, 3345m, 3350m, 3355m, 3360m, 3365m, 3370m, 3375m, 3380m, 3385m, 3390m, 3395m, 3400m, 3405m, 3410m, 3415m, 3420m, 3425m, 3430m, 3435m, 3440m, 3445m, 3450m, 3455m, 3460m, 3465m, 3470m, 3475m, 3480m, 3485m, 3490m, 3495m, 3500m, 3505m, 3510m, 3515m, 3520m, 3525m, 3530m, 3535m, 3540m, 3545m, 3550m, 3555m, 3560m, 3565m, 3570m, 3575m, 3580m, 3585m, 3590m, 3595m, 3600m, 3605m, 3610m, 3615m, 3620m, 3625m, 3630m, 3635m, 3640m, 3645m, 3650m, 3655m, 3660m, 3665m, 3670m, 3675m, 3680m, 3685m, 3690m, 3695m, 3700m, 3705m, 3710m, 3715m, 3720m, 3725m, 3730m, 3735m, 3740m, 3745m, 3750m, 3755m, 3760m, 3765m, 3770m, 3775m, 3780m, 3785m, 3790m, 3795m, 3800m, 3805m, 3810m, 3815m, 3820m, 3825m, 3830m, 3835m, 3840m, 3845m, 3850m, 3855m, 3860m, 3865m, 3870m, 3875m, 3880m, 3885m, 3890m, 3895m, 3900m, 3905m, 3910m, 3915m, 3920m, 3925m, 3930m, 3935m, 3940m, 3945m, 3950m, 3955m, 3960m, 3965m, 3970m, 3975m, 3980m, 3985m, 3990m, 3995m, 4000m, 4005m, 4010m, 4015m, 4020m, 4025m, 4030m, 4035m, 4040m, 4045m, 4050m, 4055m, 4060m, 4065m, 4070m, 4075m, 4080m, 4085m, 4090m, 4095m, 4100m, 4105m, 4110m, 4115m, 4120m, 4125m, 4130m, 4135m, 4140m, 4145m, 4150m, 4155m, 4160m, 4165m, 4170m, 4175m, 4180m, 4185m, 4190m, 4195m, 4200m, 4205m, 4210m, 4215m, 4220m, 4225m, 4230m, 4235m, 4240m, 4245m, 4250m, 4255m, 4260m, 4265m, 4270m, 4275m, 4280m, 4285m, 4290m, 4295m, 4300m, 4305m, 4310m, 4315m, 4320m, 4325m, 4330m, 4335m, 4340m, 4345m, 4350m, 4355m, 4360m, 4365m, 4370m, 4375m, 4380m, 4385m, 4390m, 4395m, 4400m, 4405m, 4410m, 4415m, 4420m, 4425m, 4430m, 4435m, 4440m, 4445m, 4450m, 4455m, 4460m, 4465m, 4470m, 4475m, 4480m, 4485m, 4490m, 4495m, 4500m, 4505m, 4510m, 4515m, 4520m, 4525m, 4530m, 4535m, 4540m, 4545m, 4550m, 4555m, 4560m, 4565m, 4570m, 4575m, 4580m, 4585m, 4590m, 4595m, 4600m, 4605m, 4610m, 4615m, 4620m, 4625m, 4630m, 4635m, 4640m, 4645m, 4650m, 4655m, 4660m, 4665m, 4670m, 4675m, 4680m, 4685m, 4690m, 4695m, 4700m, 4705m, 4710m, 4715m, 4720m, 4725m, 4730m, 4735m, 4740m, 4745m, 4750m, 4755m, 4760m, 4765m, 4770m, 4775m, 4780m, 4785m, 4790m, 4795m, 4800m, 4805m, 4810m, 4815m, 4820m, 4825m, 4830m, 4835m, 4840m, 4845m, 4850m, 4855m, 4860m, 4865m, 4870m, 4875m, 4880m, 4885m, 4890m, 4895m, 4900m, 4905m, 4910m, 4915m, 4920m, 4925m, 4930m, 4935m, 4940m, 4945m, 4950m, 4955m, 4960m, 4965m, 4970m, 4975m, 4980m, 4985m, 4990m, 4995m, 5000m, 5005m, 5010m, 5015m, 5020m, 5025m, 5030m, 5035m, 5040m, 5045m, 5050m, 5055m, 5060m, 5065m, 5070m, 5075m, 5080m, 5085m, 5090m, 5095m, 5100m, 5105m, 5110m, 5115m, 5120m, 5125m, 5130m, 5135m, 5140m, 5145m, 5150m, 5155m, 5160m, 5165m, 5170m, 5175m, 5180m, 5185m, 5190m, 5195m, 5200m, 5205m, 5210m, 5215m, 5220m, 5225m, 5230m, 5235m, 5240m, 5245m, 5250m, 5255m, 5260m, 5265m, 5270m, 5275m, 5280m, 5285m, 5290m, 5295m, 5300m, 5305m, 5310m, 5315m, 5320m, 5325m, 5330m, 5335m, 5340m, 5345m, 5350m, 5355m, 5360m, 5365m, 5370m, 5375m, 5380m, 5385m, 5390m, 5395m, 5400m, 5405m, 5410m, 5415m, 5420m, 5425m, 5430m, 5435m, 5440m, 5445m, 5450m, 5455m, 5460m, 5465m, 5470m, 5475m, 5480m, 5485m, 5490m, 5495m, 5500m, 5505m, 5510m, 5515m, 5520m, 5525m, 5530m, 5535m, 5540m, 5545m, 5550m, 5555m, 5560m, 5565m, 5570m, 5575m, 5580m, 5585m, 5590m, 5595m, 5600m, 5605m, 5610m, 5615m, 5620m, 5625m, 5630m, 5635m, 5640m, 5645m, 5650m, 5655m, 5660m, 5665m, 5670m, 5675m, 5680m, 5685m, 5690m, 5695m, 5700m, 5705m, 5710m, 5715m, 5720m, 5725m, 5730m, 5735m, 5740m, 5745m, 5750m, 5755m, 5760m, 5765m, 5770m, 5775m, 5780m, 5785m, 5790m, 5795m, 5800m, 5805m, 5810m, 5815m, 5820m, 5825m, 5830m, 5835m, 5840m, 5845m, 5850m, 5855m, 5860m, 5865m, 5870m, 5875m, 5880m, 5885m, 5890m, 5895m, 5900m, 5905m, 5910m, 5915m, 5920m, 5925m, 5930m, 5935m, 5940m, 5945m, 5950m, 5955m, 5960m, 5965m, 5970m, 5975m, 5980m, 5985m, 5990m, 5995m, 6000m, 6005m, 6010m, 6015m, 6020m, 6025m, 6030m, 6035m, 6040m, 6045m, 6050m, 6055m, 6060m, 6065m, 6070m, 6075m, 6080m, 6085m, 6090m, 6095m, 6100m, 6105m, 6110m, 6115m, 6120m, 6125m, 6130m, 6135m, 6140m, 6145m, 6150m, 6155m, 6160m, 6165m, 6170m, 6175m, 6180m, 6185m, 6190m, 6195m, 6200m, 6205m, 6210m, 6215m, 6220m, 6225m, 6230m, 6235m, 6240m, 6245m, 6250m, 6255m, 6260m, 6265m, 6270m, 6275m, 6280m, 6285m, 6290m, 6295m, 6300m, 6305m, 6310m, 6315m, 6320m, 6325m, 6330m, 6335m, 6340m, 6345m, 6350m, 6355m, 6360m, 6365m, 6370m, 6375m, 6380m, 6385m, 6390m, 6395m, 6400m, 6405m, 6410m, 6415m, 6420m, 6425m, 6430m, 6435m, 6440m, 6445m, 6450m, 6455m, 6460m, 6465m, 6470m, 6475m, 6480m, 6485m, 6490m, 6495m, 6500m, 6505m, 6510m, 6515m, 6520m, 6525m, 6530m, 6535m, 6540m, 6545m, 6550m, 6555m, 6560m, 6565m, 6570m, 6575m, 6580m, 6585m, 6590m, 6595m, 6600m, 6605m, 6610m, 6615m, 6620m, 6625m, 6630m, 6635m, 6640m, 6645m, 6650m, 6655m, 6660m, 6665m, 6670m, 6675m, 6680m, 6685m, 6690m, 6695m, 6700m, 6705m, 6710m, 6715m, 6720m, 6725m, 6730m, 6735m, 6740m, 6745m, 6750m, 6755m, 6760m, 6765m, 6770m, 6775m, 6780m, 6785m, 6790m, 6795m, 6800m, 6805m, 6810m, 6815m, 6820m, 6825m, 6830m, 6835m, 6840m, 6845m, 6850m, 6855m, 6860m, 6865m, 6870m, 6875m, 6880m, 6885m, 6890m, 6895m, 6900m, 6905m, 6910m, 6915m, 6920m, 6925m, 6930m, 6935m, 6940m, 6945m, 6950m, 6955m, 6960m, 6965m, 6970m, 6975m, 6980m, 6985m, 6990m, 6995m, 7000m, 7005m, 7010m, 7015m, 7020m, 7025m, 7030m, 7035m, 7040m, 7045m, 7050m, 7055m, 7060m, 7065m, 7070m, 7075m, 7080m, 7085m, 7090m, 7095m, 7100m, 7105m, 7110m, 7115m, 7120m, 7125m, 7130m, 7135m, 7140m, 7145m, 7150m, 7155m, 7160m, 7165m, 7170m, 7175m, 7180m, 7185m, 7190m, 7195m, 7200m, 7205m, 7210m, 7215m, 7220m, 7225m, 7230m, 7235m, 7240m, 7245m, 7250m, 7255m, 7260m, 7265m, 7270m, 7275m, 7280m, 7285m, 7290m, 7295m, 7300m, 7305m, 7310m, 7315m, 7320m, 7325m, 7330m, 7335m, 7340m, 7345m, 7350m, 7355m, 7360m, 7365m, 7370m, 7375m, 7380m, 7385m, 7390m, 7395m, 7400m, 7405m, 7410m, 7415m, 7420m, 7425m, 7430m, 7435m, 7440m, 7445m, 7450m, 7455m, 7460m, 7465m, 7470m, 7475m, 7480m, 7485m, 7490m, 7495m, 7500m, 7505m, 7510m, 7515m, 7520m, 7525m, 7530m, 7535m, 7540m, 7545m, 7550m, 7555m, 7560m, 7565m, 7570m, 7575m, 7580m, 7585m, 7590m, 7595m, 7600m, 7605m, 7610m, 7615m, 7620m, 7625m, 7630m, 7635m, 7640m, 7645m, 7650m, 7655m, 7660m, 7665m, 7670m, 7675m, 7680m, 7685m, 7690m, 7695m, 7700m, 7705m, 7710m, 7715m, 7720m, 7725m, 7730m, 7735m, 7740m, 7745m, 7750m, 7755m, 7760m, 7765m, 7770m, 7775m, 7780m, 7785m, 7790m, 7795m, 7800m, 7805m, 7810m, 7815m, 7820m, 7825m, 7830m, 7835m, 7840m, 7845m, 7850m, 7855m, 7860m, 7865m, 7870m, 7875m, 7880m, 7885m, 7890m, 7895m, 7900m, 7905m, 7910m, 7915m, 7920m, 7925m, 7930m, 7935m, 7940m, 7945m, 7950m, 7955m, 7960m, 7965m, 7970m, 7975m, 7980m, 7985m, 7990m, 7995m, 8000m, 8005m, 8010m, 8015m, 8020m, 8025m, 8030m, 8035m, 8040m, 8045m, 8050m, 8055m, 8060m, 8065m, 8070m, 8075m, 8080m, 8085m, 8090m, 8095m, 8100m, 8105m, 8110m, 8115m, 8120m, 8125m, 8130m, 8135m, 8140m, 8145m, 8150m, 8155m, 8160m, 8165m, 8170m, 8175m, 8180m, 8185m, 8190m, 8195m, 8200m, 8205m, 8210m, 8215m, 8220m, 8225m, 8230m, 8235m, 8240m, 8245m, 8250m, 8255m, 8260m, 8265m, 8270m, 8275m, 8280m, 8285m, 8290m, 8295m, 8300m, 8305m, 8310m, 8315m, 8320m, 8325m,

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http://www.sensorbay.ca/wes/SOSClient/GetObservation.jsp - Windows Internet Explorer

http://www.sensorbay.ca/wes/SOSClient/GetObservation.jsp

Get Observation Form

Observed Properties:

um:egc:del:phenomenon:ThwIndex
um:egc:del:phenomenon:Wind
um:egc:del:phenomenon:WindChill
um:egc:del:phenomenon:WindDirection
[Select All](#) [De-Select All](#)

Time Frame:

Most Recent Observation
Within last 24 hrs
Last 48 hrs
Last 72 hrs
Last week
Last month
Last year
Date Range

WindChill	
HeatIndex	
Time	2007-10-22T15:45:00Z
HighTemperature	5.8
Temperature	5.7
HighWindDirection	NW
HighWindSpeed	30.6
Bar	761.7
Rain	0
WindSpeed	20.9
DewPoint	2.7
RainRate	N/A
Humidity	81
LowTemperature	5.7
ThwIndex	1.5
WindDirection	N
ID	1

Done

Internet 100%

Google

Welcome!

results

Prev

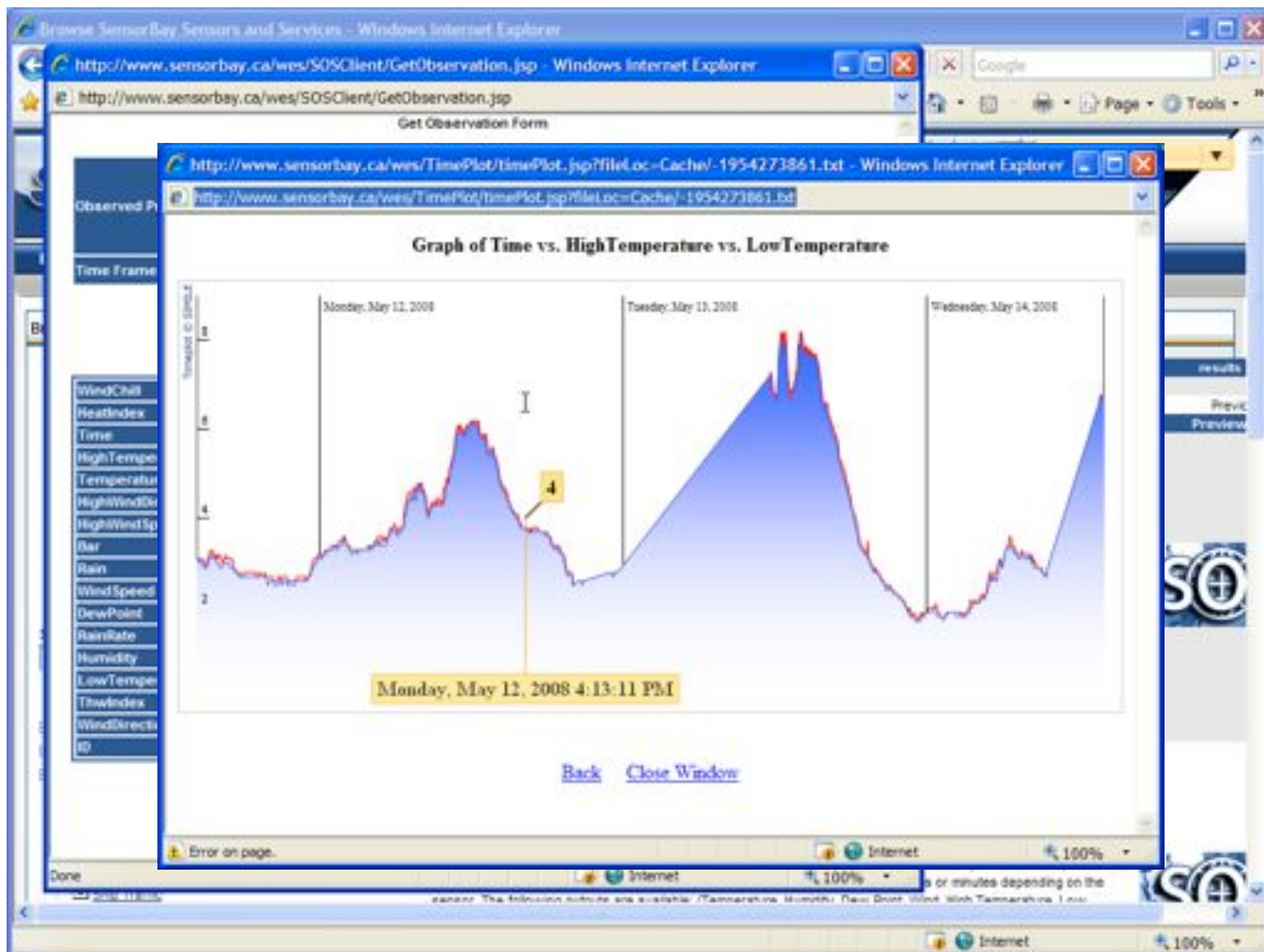
Preview

Sensor). These stations include
an external sensor array, and a
calculations and interface to the
both amateurs and professional
solar powered and operate over
a or minutes depending on the
nd, High Temperature, Low
d Index, Thaw Index, Barometric

Describe Sensor

Sensor). These stations include
an external sensor array, and a
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[Home](#) [Find/View](#) [Browse](#)

YES Client

File View Map ADE Tools Help

Assistant Home

 Manage Maps

Browse, retrieve, edit and create maps

 Browse Sensors

- Browse sensor categories and present them on the map

Class Sensors

Estimando parámetros

Mathematics 2021, 9, 1032

 OpenStax

Erkenn

Effluent Quality

Eh Omler

 Track Mobile Objects

- Create a MOTS layer on the map

 Locate

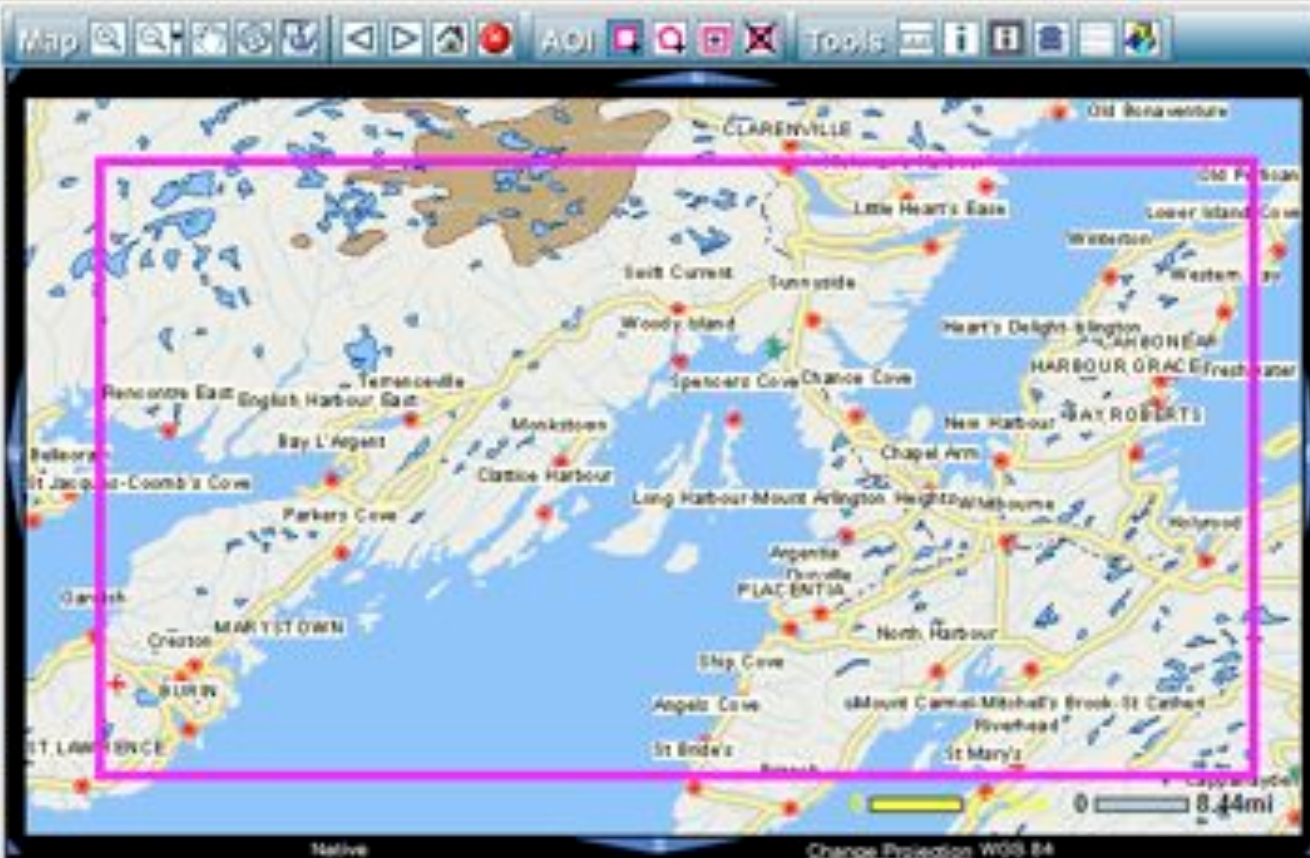
Local area of interest

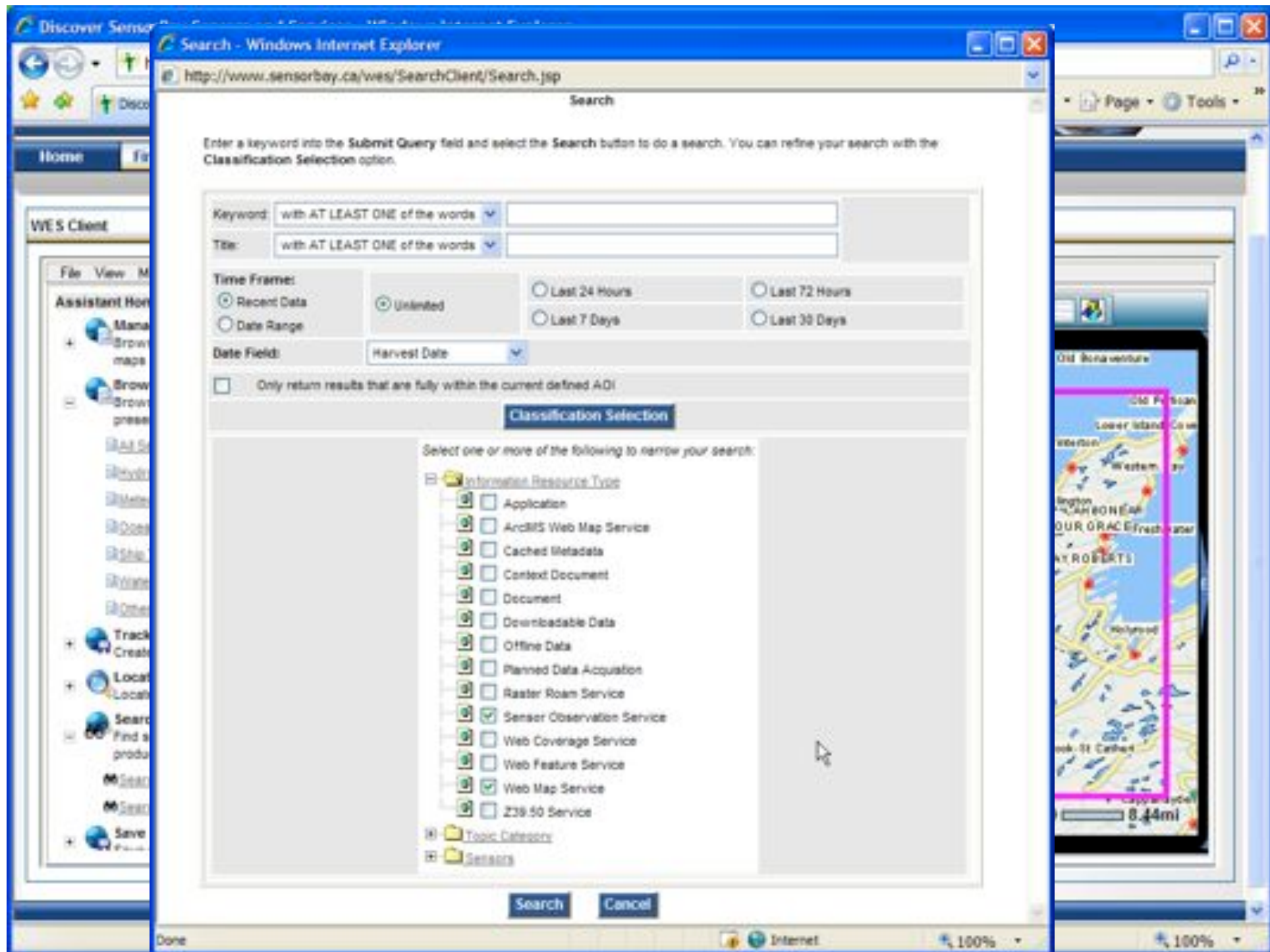
 Search

Find services, sensors, data and products

 Save

From November 2000 to March 2001, 1000





Discover Sensor

Home

File

WES Client

File

View

M

Assistant Home

+

Manage

Browse maps

+

Browse

Browse press

+

Track

Create

+

Local

Local

+

Search

Find a produ

+

Save

Save

Done

Results - Windows Internet Explorer

http://www.sensorbay.ca/web/CSWSearchClient/pages/Results.jsp

Content Found By Search

results: 1 - 10 of 61

Keywords: AOI: 48,18899045353451 -55,38038358435499 48,948532719847264 -53,240543314774

Back To Search | Add results 1 - 10 to the map. | Add top 50 results to the map

Previous | Next

Metadata Information

Preview

Layer ID: 4C4FA217-BA93-EAA3-CE37-4D3E5FC40F80

Title: Landsat 7 Orthorectified Imagery over Canada - band 743

Description: The orthoimage data set is created with the most accurate control data available at the time of creation. The imagery has been corrected with either provincial and aerial triangulation data or, if not available, the most accurate NTDB data. The objective is to obtain accuracy of 30 metres or better in the South and 50 metres or better in the North for a 90% level of confidence. The accuracy is evaluated for each orthoimage data set. The control data, which has been extracted from sources as mentioned above, can consist of road intersection vector data or lake/island centroids. In some cases the intersection of the centre line of surficial river may have been used. The control points are distributed homogeneously within the image in specific sectors. Sectors are located in the surround of the image, in the lowest and highest elevation area of the image, and in all other areas in which overlapping image base sectors are located.

Origination: GeoBase Canada

Rank: 0.15184478173136584

Last Updated: 2008-01-29 10:02:08

View Details

View Map

View in World Wind

View in Google Earth

Space Time Toolkit

Sensor ID: 581189C7-3668-1594-C381-34680C2D8070

Title: urn:ogc:def:procedure:MF02ZM0004

Description: urn:ogc:def:procedure:MF02ZM0004

Origination: Compusoft Limited

Rank: 0.13545625222851032

Last Updated:

View Details

View Map

GetCapabilities

Describe Sensor

GetObservation

Sensor ID: 70E27D9D-1988-7410-2414-9875A215301E

Title: COME BY CHANCE RIVER NEAR GOOBIES

Description: Reports various sensor observations

Origination: GeoConnections

Rank: 0.13545625222851032

Last Updated:

View Details

View Map

GetCapabilities

GetObservation

Describe Sensor

Sensor ID: 09306894-F52B-6022-9F41-893D4FE831A9

Title: urn:ogc:def:procedure:MF02ZG0016

Description: urn:ogc:def:procedure:MF02ZG0016

Origination: Compusoft Limited

Rank: 0.1354562522285103

Last Updated:

View Details

View Map

GetCapabilities

GetObservation

Describe Sensor

Internet

100%

http://www.sensorbay.ca/web/guest/find-view

Discover SensorBay Sensors and Services

SensorBay

Home Find/View Browse

WES Client

File View Map AOI Tools Help

Search Complete

The sensor layer has been added to the map. Select the identify icon from the map toolbar, then select the layer of interest from the map layer list displayed in the assistant panel and click on a feature on the map to see metadata about the feature.

Back

Map

View Metadata

Location: POINT (-54.90867 47.37025)

Observation: WEATHER_UV

Description: The weather stations are Davis Instruments Vantage Pro2 integrated units (With UV Sensor). These stations include two components: the Integrated Sensor Suite (ISS) which houses and manages the external sensor array, and a console which provides the user

Classification: Meteorological

Name: SBRUS_332

Latest Observation

WindChill	5.5
HeatIndex	5.3
Time	2008-05-14T17:00:00Z
HighTemperature	5.5
Temperature	5.5
HighWindDirection	—
HighWindSpeed	0
Bar	1010.3
Rain	0
WindSpeed	0
DewPoint	1.1
RainRate	0
Humidity	74

Map

0 8.44mi

Internet 100%

javascript:var w=popupWindow('http://www.sensorbay.ca/wes/SOSClient/main.jsp?d=E5430F54-C3C2-FCDD-4743-ED37C1F')

File View Map API Tools Help

The screenshot shows the AutoCAD ribbon interface. The 'Home' tab is selected, and the 'Tools' panel is visible. The 'Tools' panel contains various icons for drawing and editing, including lines, arcs, circles, and more. The 'Tools' panel is located on the right side of the ribbon.

Search Complete



The sensor layer has been added to the

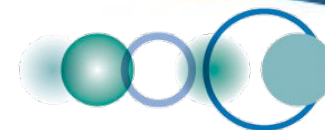
CLARENVILLE

Old Bond Venture

map. Select the identify icon  from the map toolbar, then select the layer of interest from the map layer list displayed in the assistant panel and click on a feature on the map to see metadata about the feature.

The map shows the coastline of Bay Roberts, Newfoundland. A red dot indicates the location of the TRIAXYS Directional Wave Buoy in the water. Labels on the map include 'New Harbour', 'Bay Roberts', 'Chenal Jean', and 'Bay Roberts'.





Feedback and Questions

- Please Provide Your Questions, Feedback and Ideas
- URL: <http://www.sensorbay.ca>
- Have SOS? Send us the URL!
- EMAIL: info@compusult.net



Let us know about your ideas!

