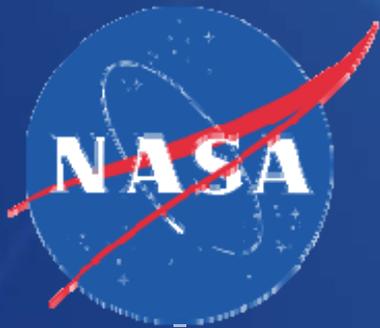


Environmental Geocaching

GLOBE Annual Conference San Antonio, Texas



Todd Ensign

West Virginia GLOBE Partner

NASA Independent Verification & Validation Facility

Educator Resource Center

Overview

- What is Geocaching?
- How does Geocaching work?
- How GLOBE and Geocaching align?
- The first Geo-Camporee: Geocaching, GLOBE and Scouting



What is Geocaching?

Basically, GeoCaching is a high-tech version of hide-and-seek using a GPS to find hidden treasure.



(referring to
locations on earth)



(to find a
hidden treasure)

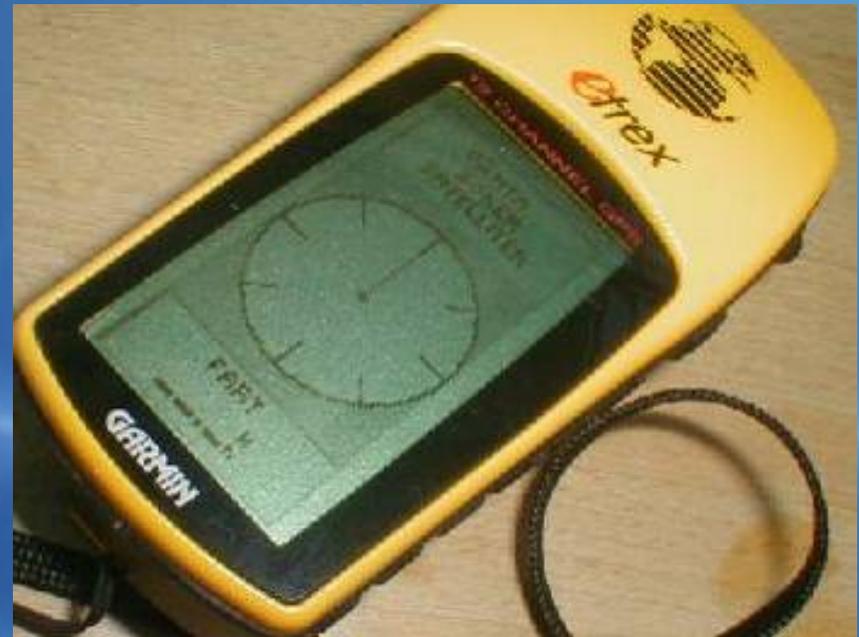
How Does Geocaching Work?

- A Geocache or just “cache”, is placed at an interesting location.
- It is hidden from view but **NEVER** buried.



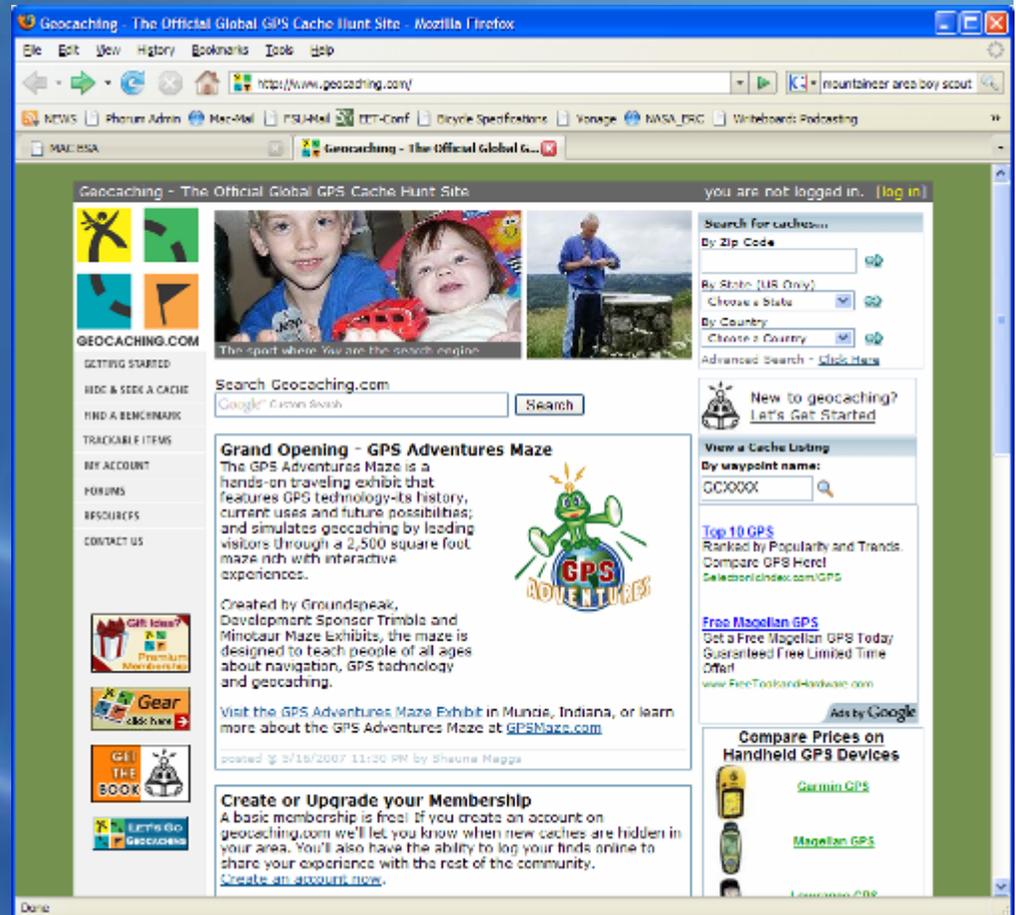
How Soes Geocaching Work?

- The cache's exact Latitude and Longitude is determined using a GPS unit.



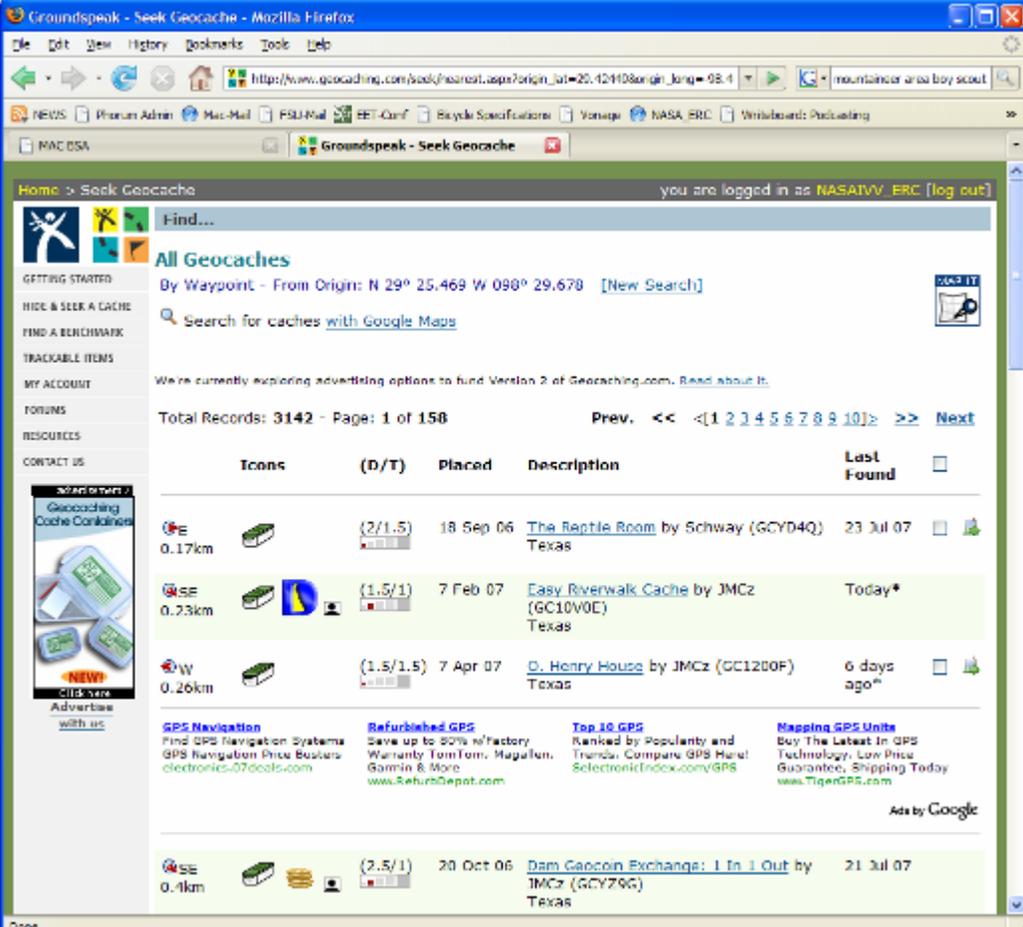
How does Geocaching Work

- The Cache description and location are submitted to www.geocaching.com
- Once approved the cache is posted for others to find.
- Geocachers can share their success (or not) and details about the cache.



How Does Geocaching Work?

- After creating an account, users can search for caches
- Read tips from other Geocachers
- Clues are provided



The screenshot shows a Mozilla Firefox browser window displaying the Geocaching website. The page title is "Groundspeak - Seek Geocache". The address bar shows the URL: https://www.geocaching.com/seek/nearest.aspx?origin_lat=20.42110&origin_lng=-98.4. The page content includes a search bar, a list of geocaches, and various advertisements.

Home > Seek Geocache you are logged in as [NASAIVV_ERC](#) [log out]

Find... **All Geocaches**
By Waypoint - From Origin: N 29° 25.469 W 098° 29.670 [New Search]
Search for caches with [Google Maps](#)

We're currently exploring advertising options to fund Version 2 of Geocaching.com. [Read about it.](#)

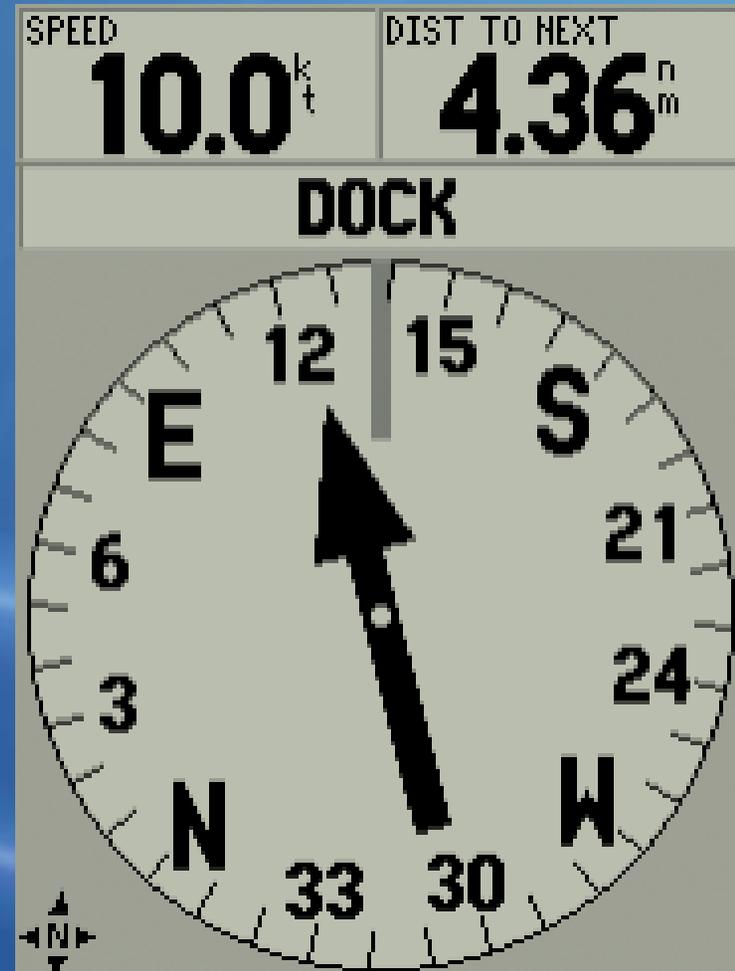
Total Records: 3142 - Page: 1 of 158 Prev. << < [1 2 3 4 5 6 7 8 9 10] >> Next

Icons	(D/T)	Placed	Description	Last Found
	(2/1.5)	18 Sep 06	The Rattle Room by Schway (GCYD4Q) Texas	23 Jul 07
	(1.5/1)	7 Feb 07	Easy Riverwalk Cache by JMCz (GC10V0E) Texas	Today*
	(1.5/1.5)	7 Apr 07	O. Henry House by JMCz (GC12B0F) Texas	6 days ago*
	(2.5/1)	20 Oct 06	Dam Geocoin Exchange: 1 In 1 Out by JMCz (GCY79G) Texas	21 Jul 07

Ads by Google

How Does Geocaching Work?

- To locate a cache, coordinates are entered into a GPS unit which directs you to the cache's location



How does Geocaching work?

What's in a Geocache?

The weatherproof container usually includes --

- A visitor's log and pencil
- A "welcome" note
- Prizes for everyone!
 - Sometimes you might find—



- A disposable camera
- Travel Bugs
- GeoCoins, GeoTokens
- Clues to another GeoCache



How Does Geocaching Work?

What do I do when I find one?

- Sign the logbook
- Take one of the trinkets you find.
- Leave one of your own trinkets.
- Replace the cache just as you found it for the next Geocacher to find.



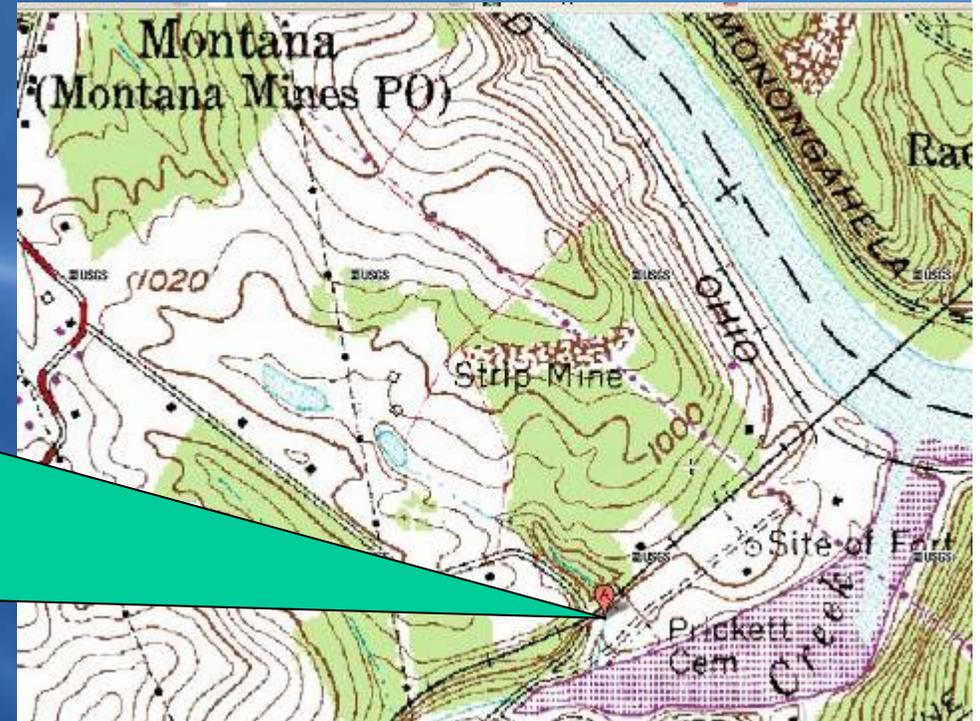
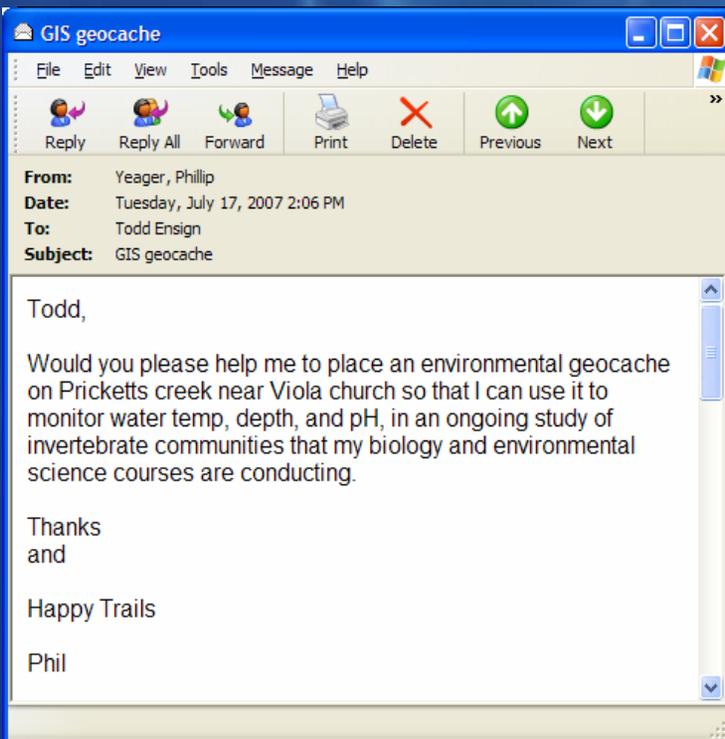
GLOBE and Geocaching

- Geocaching provides a “hook” to engage GLOBE students
- Caches can be placed in areas of high environmental significance and interest
- Local scientists can be contacted to suggest cache locations



GLOBE and Geocaching

- Example: Local Environmental Science professor needs stream temperature and pH data for fish habitat study



GLOBE and Geocaching

Example:

- Local Boy Scout Council



Boy Scouts

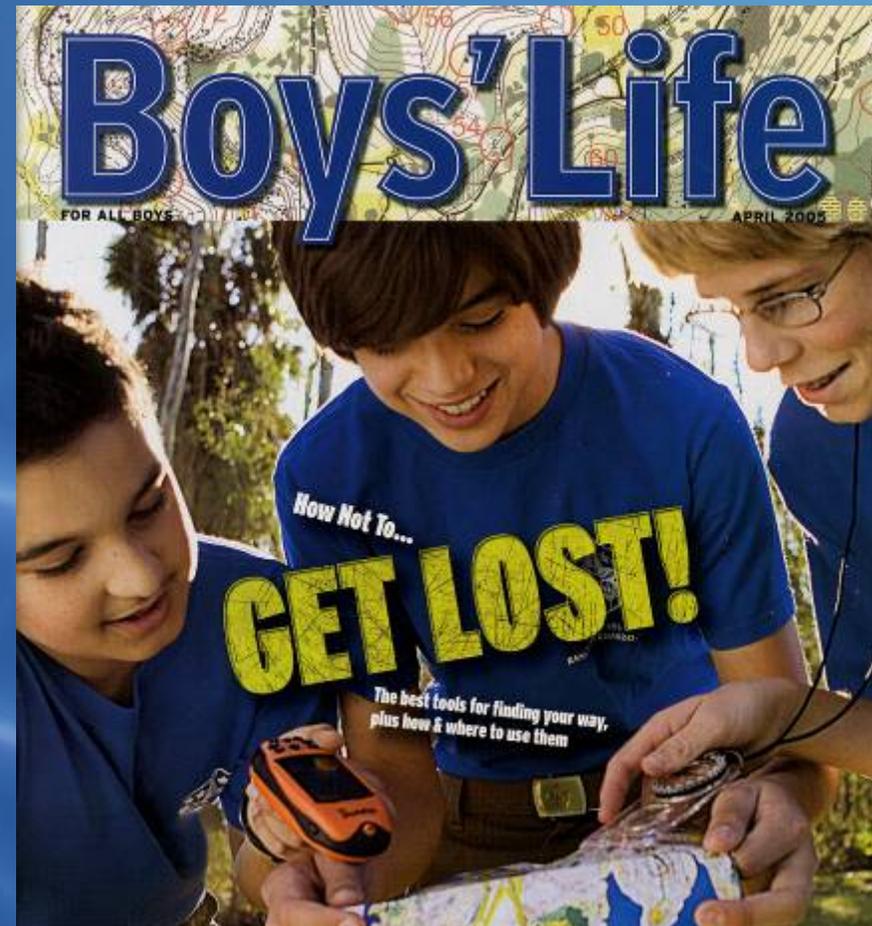


Merit Badge Program

- Animal Science
- Astronomy
- Bird Study
- Botany
- Chemistry
- Citizenship in Community
- Citizenship in Nation
- Citizenship in World
- Communications
- Environmental Science
- Fish & Wildlife Management
- Forestry
- Gardening
- General Science
- Geology
- Nature
- Oceanography
- Orienteering
- Public Health
- Soil & Water Conservation
- Surveying



GeoCaching



GeoScouting

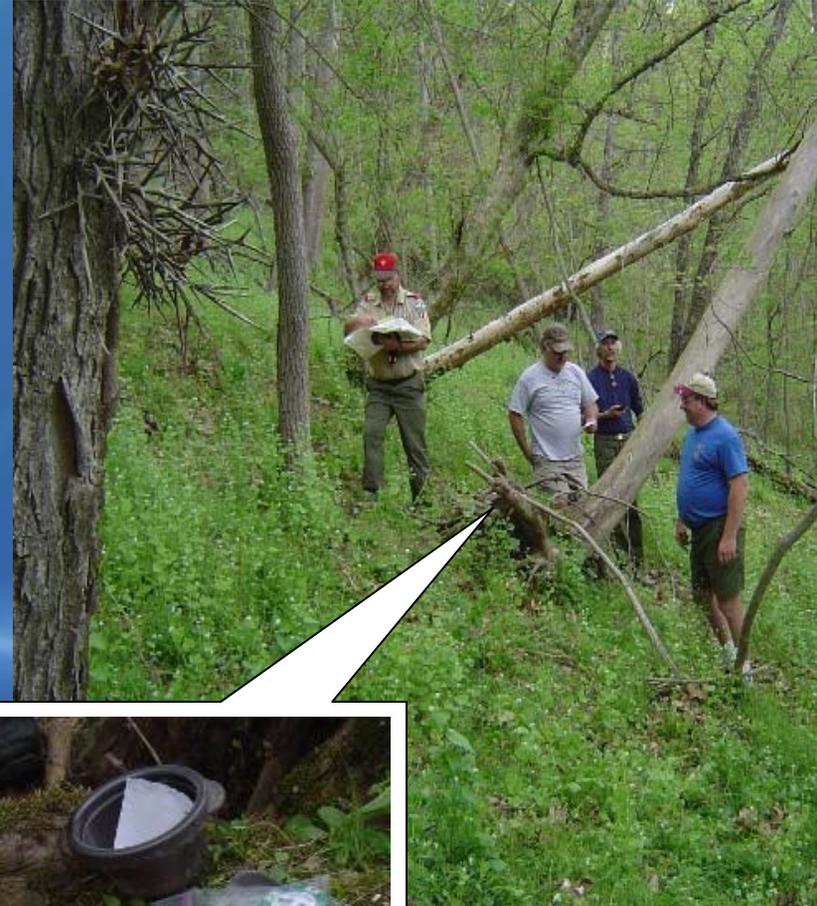


- Developed by Dr. Mary Stevens combines Scouting and Geocaching
- www.geoscouting.com
- Promoted at the national level
- Provides a framework for integrating GLOBE
- Provides a vehicle for promoting GLOBE internationally . . .



First Annual Geo-Camporee

- Led by local Boy Scout leader, Mike Carpenter
- Funding for GPS from WV Space Grant Consortium
- Based on GLOBE Land Cover Sample Site protocol
- Training on GeoCaching and GLOBE to 30 leaders
- Designed ***NEW*** Website for data entry
- Requests are coming in to train in other states



Geo-Camporee Website

MAC BSA - Mozilla Firefox
http://www.macbsa.org/activities/geocamporee/index.php

Mountaineer Area Council BSA

304.366.3940 info@macbsa.org Fairmont, West Virginia

Home About Us Membership Scouts Scouters Training Activities Support Special Events

GeoCamporee 2006

Welcome to the Mountaineer Area Council GeoCamporee 2006! We are pleased and proud to have your unit participate in this first event of its kind in the country.

This is the only event in which every member of Scouting can participate at the exact same level. That's right - from Tiger Cubs through Eagle Scouts and Adults, as well as all Venture and Crew members, everyone participates in the same event with the same rules.

What is a GeoCamporee?
A GeoCamporee is a long term scouting event combining Geocaching and GLOBE with your regular outdoor Scouting activities. It encourages fun, Scout skills, leadership, Leave No Trace, environmental awareness, and teamwork.

To Participate:

- Go to Geocaching.com
- Create your free account for your Troop, Patrol, Crew, or Den. If you already have an account, you should create a separate one for use with your unit during this event.
- Go to the MACUSA GeoCamporee site.
- Provide the required information to register for the GeoCamporee.
- Get out and find geocaches during your regular outdoor activities or schedule a Geocaching event for your unit, and collect your GLOBE ground cover data.
- Log your finds on the Geocaching.com web site per their instructions.

Related Links...

- [Event Registration](#)
- [Report GLOBE Data](#)
- [Geocaching.com](#)
- [GLOBE](#)

http://www.macbsa.org/activities/geocamporee/registration.php

Home About Us Membership Scouts Scouters Training Activities

GeoCamporee 2006 Registration

Before completing this form, you should create your free account on Geocaching.com and get the coordinates of your unit meeting place. Once you have that info, come back here and register for the GeoCamporee below.

All questions must be answered in order to complete your registration. If you have any questions, email Mike Carpenter.

NOTE: you only need to visit this page one time. After you register, look for caches and log the ones you find on the Geocaching.com web site.

- 1 Your Geocaching.com Username:
- 2 Your unit type:
- 3 Your unit number:
- 4 Meeting place coordinates:
Latitude (DD° mm.mmm) N
Meeting place coordinates:
Longitude (DD° mm.mmm) W

Copyright 2005 Mountaineer Area Council, BSA - National BSA - Site Design & Development

Home About Us Membership Scouts Scouters Training Activities

Report GeoCamporee GLOBE Data

Your Geocaching.com Username:

Directions: Enter your GLOBE data in the following fields and click "Submit" when finished. As a member, you need to report a minimum of 12 ground cover readings before April 30, 2007.

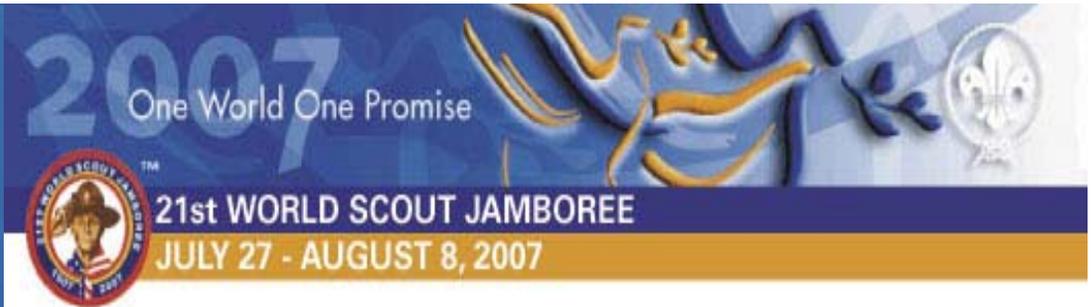
Waypoint for this report:
The GC designation:

Coordinates you recorded for Waypoints 1-5 at this cache site (DD mm.mmm):

Waypoint 1:	N	°	
	W	°	
Waypoint 2:	N	°	
	W	°	
Waypoint 3:	N	°	
	W	°	
Waypoint 4:	N	°	
	W	°	
Waypoint 5:	N	°	
	W	°	

Groundcover reading:

International Collaboration



- 21st World Scout Jamboree, UK
- 41,500 scouts
- ELEMENTS Programme: Water, Earth, Wind, Fire
 - A Science-based program
 - Coordinators of all Elements are leveraging GLOBE
 - GeoScouting/GLOBE are integrated in all Elements
 - GPS units and protocol kits are needed
 - Contact Dr. Stevens at: geoscouting@gmail.com



Contact Information

Todd Ensign

Todd.ensign@ivv.nasa.gov

<http://erc.ivv.nasa.gov>

<http://wvglobe.org>

NASA IV&V Facility ERC

100 University Dr.

Fairmont, WV 26554

304-367-8438