



# GSAK – Introduction

(Geocaching Swiss Army Knife)



v8.1.1

Shamelessly stolen from  
Rich Bianchi aka Cache U Nuts  
By Jim Hollenback aka jholly



# What is GSAK?

- Offline database program for Windows tailored to geocaching
- Single developer – Clyde England from Australia
- Uses SQLite database engine (most widely deployed worldwide)
- Support for multiple databases and views
- Extensive filtering, sorting, and searching capabilities
- Displays waypoints using Google Maps
- GPS and PDA (CacheMate support) device input and output
- Export to various mapping programs
- Highly configurable
- Extendable through powerful macros
- Excellent support from GSAK developer and community via Forum
- \$30 per user license (can be installed on multiple computers)
- Try unrestricted before buying for up to 21 days (then nag screen)



# Offline vs. Online Database


	Online	Offline
How many caches?	All	As many as you load
How many logs per cache?	All	As many as you load
How current is information?	Always current	Current as of last load
Internet access needed?	Yes	Only for Google Maps
Premium membership?	No	Yes
Additional waypoints?	Owner defined only	Owner and user defined
Corrected coordinates?	Owner and user defined	Owner and user defined
Select caches by criteria?	Limited support	Extensive support
Polygon selection?	No	Yes
Track First to Finds?	No	Yes
County information?	No	Yes
Customize GPS info?	No	Yes
Generate find stats?	Limited	Extensive (using macro)

# Installing GSAK

<http://gsak.net>

**GSAK (Geocaching Swiss Army Knife)**

[Home](#) | [Order](#) | [Forum](#) | [Members](#) | [Google Maps](#) | [FAQ](#) | [Macros](#) | [Help](#)



GSAK is the all in one Geocaching and waypoint management tool. Major features include: Multiple databases, sending/receiving waypoints to GPSr, Google maps, conversion to many mapping formats, PDA output (including CacheMate support), HTML output, extensive searching, macro support, backup and restore, distance/direction from other waypoints (including caches, locations, post codes) and much more. GSAK only runs on Windows operating systems (2000, XP, Vista, Windows 7)

For a more complete feature set please click [here](#).  
For a screen shot of GSAK click [here](#).

GSAK is **FREE** to download and use, but after 21 days of unrestricted use you get a nag screen. You can keep using GSAK after the 21 days, but if you want to remove the nag screen you will need to register the program ( *Note: PayPal will now accept credit cards directly - you DO NOT have to set up a PayPal account* ). To register GSAK or see the benefits of registration click [here](#).

Need help? GSAK has its own support forum. Go here <http://support.gsak.net>

There is also a GSAK 101 getting started guide that you can download from [here](#)

**NEWS** 9th November, 2011 - Version 8.0.0 (using Geocaching.com "live" api) is now ready for download. **Note:** Version 8 is a chargeable upgrade for V7 registered users - for more information see [here](#)



[Download version 8.0.0](#) (7.5mb) or if busy or slow try [here](#). Please see the [version history](#) for a list of changes.


For Version 7 users that do not wish to upgrade to V8 you can download the latest V7 (7.7.4.36) [here](#)

**Unsolicited user testimonial:**

I used to use a clunky assortment of g7toWin, GPSBabel, Utopia, CacheMateConvert, and a host of other little scripts in combination with my standard map applications like MapQuest, Streets & Trips, etc. I am pleased to inform you that after I put your product through its paces for a couple months, I now use only one application for manipulating and storing waypoint & geocache data: GSAK. This is the best piece of GPS waypoint management software I've ever purchased. It is also the greatest value. The features of GSAK are excellent, the interoperability with other applications is excellent and your responsiveness to requests is excellent. Thank you very much for your fine work. I declare myself a very satisfied customer.

Sincerely,  
Daryl Hinz

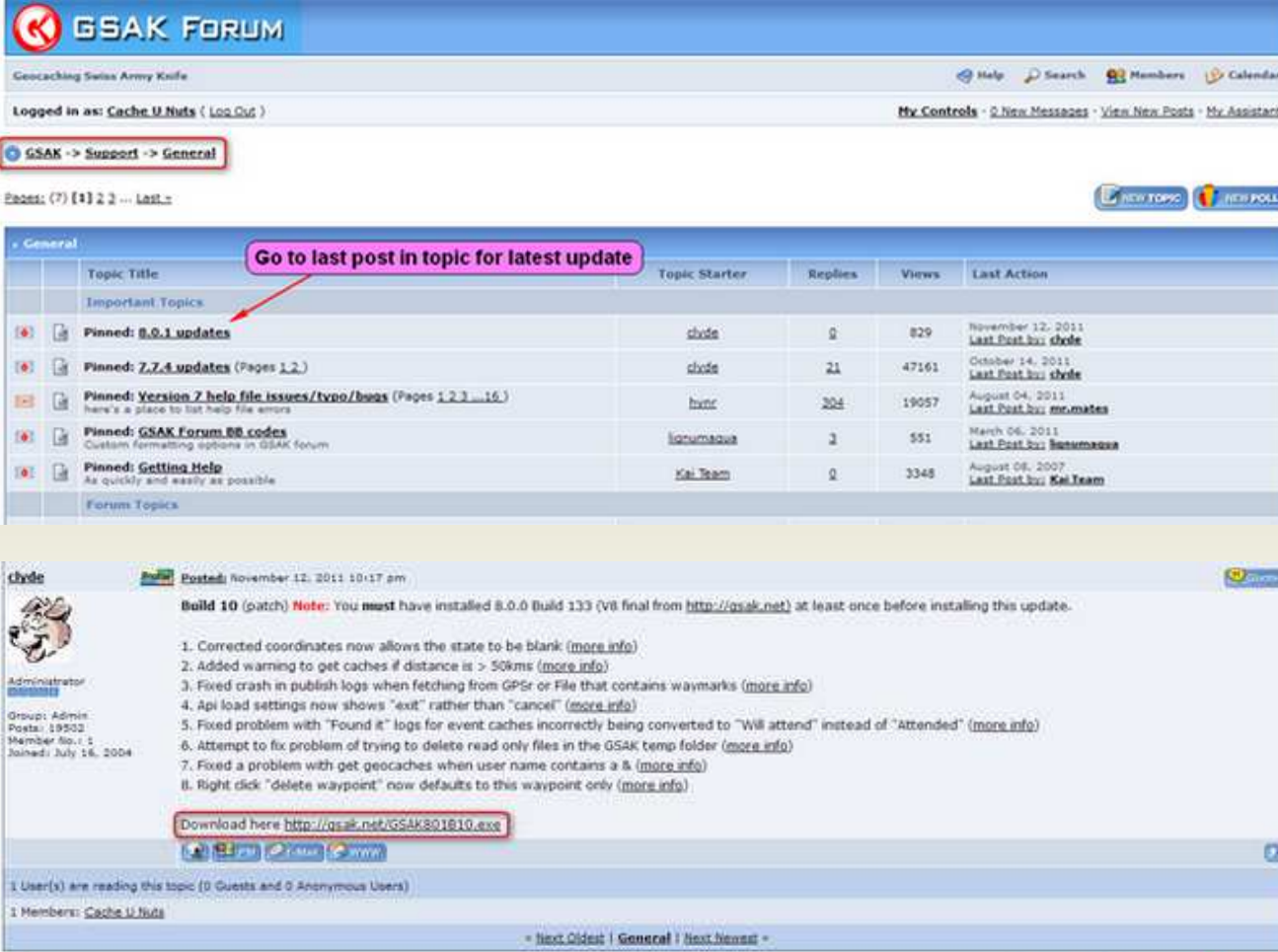


Under the covers GSAK uses GPSBabel  and is powered by the Geocaching.com live api

Copyright 2004-2011 GWE Computer Services  
[Privacy Policy](#) [Contact](#)

# Installing GSAK – Latest Patch

<http://gsak.net/board/...>



The screenshot shows the GSAK Forum interface. At the top, there's a navigation bar with the GSAK logo and forum name. Below it, there are links for Help, Search, Members, and Calendar. The user is logged in as 'Cache.U.Nuts'. The main content area shows a list of topics under the 'General' category. A red box highlights the 'GSAK -> Support -> General' breadcrumb. A red arrow points to the 'Pinned: 8.0.1 updates' topic, with a callout box saying 'Go to last post in topic for latest update'. Below the topic list, there's a detailed view of a post by 'chyle' titled 'Build 10 (patch)'. The post includes a list of updates and a download link for 'http://gsak.net/GSAK801B10.exe'.

**Forum Topics Table:**

Topic Title	Topic Starter	Replies	Views	Last Action
Important Topics				
<b>Pinned: 8.0.1 updates</b>	chyle	0	829	November 12, 2011 Last Post by: chyle
<b>Pinned: 7.7.4 updates (Pages 1,2)</b>	chyle	21	47161	October 14, 2011 Last Post by: chyle
<b>Pinned: Version 7 help file issues/typos/bugs (Pages 1,2,3...16)</b> here's a place to list help file errors	hunc	204	19057	August 04, 2011 Last Post by: mrmates
<b>Pinned: GSAK Forum BB codes</b> Custom formatting options in GSAK forum	lucumama	3	551	March 06, 2011 Last Post by: lucumama
<b>Pinned: Getting Help</b> As quickly and easily as possible	Kel Team	0	3348	August 08, 2007 Last Post by: Kel Team
Forum Topics				

**Post Details:**

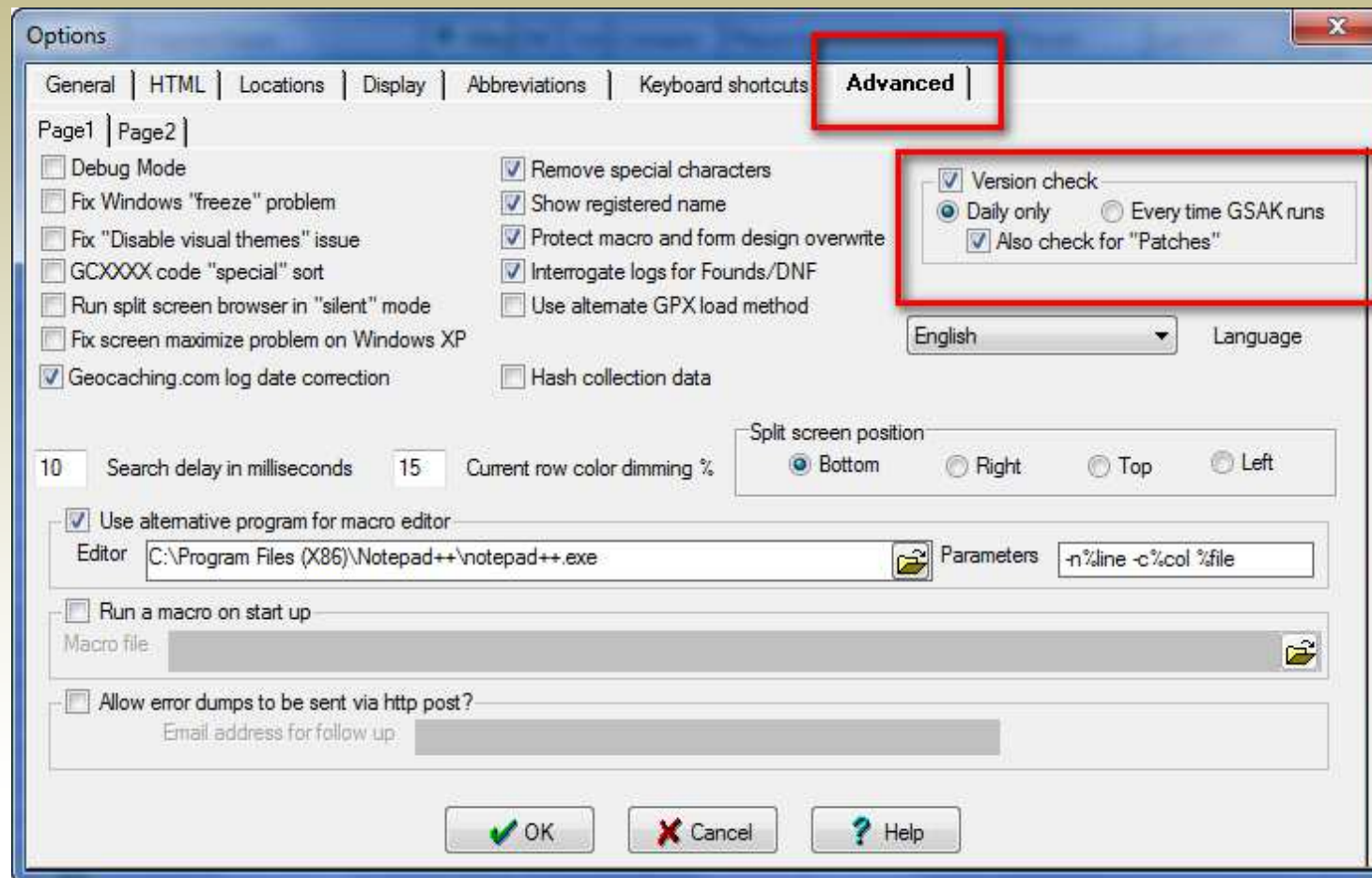
**chyle** Posted: November 12, 2011 10:17 am

**Build 10 (patch)** **Note:** You **must** have installed 8.0.0 Build 133 (V8 final from <http://gsak.net>) at least once before installing this update.

1. Corrected coordinates now allows the state to be blank ([more info](#))
2. Added warning to get caches if distance is > 50kms ([more info](#))
3. Fixed crash in publish logs when fetching from GPSr or File that contains waymarks ([more info](#))
4. Api load settings now shows "exit" rather than "cancel" ([more info](#))
5. Fixed problem with "Found it" logs for event caches incorrectly being converted to "Will attend" instead of "Attended" ([more info](#))
6. Attempt to fix problem of trying to delete read only files in the GSAK temp folder ([more info](#))
7. Fixed a problem with get geocaches when user name contains a & ([more info](#))
8. Right click "delete waypoint" now defaults to this waypoint only ([more info](#))

Download here <http://gsak.net/GSAK801B10.exe>

# Initial Configuration – Auto Update



# Initial Configuration – Auto Update

GSAK 8.1.1.49 Database: Found (Registered to: Jim Hollenback)

File Search User Flags View Centre Point Waypoint Database GPS Macro Tools Geocaching.com access Help

Log Stat GME Delorm CMEx Nuvi E-Exp Status Maps

Lock First Code Search Name Search Split screen format Select a saved filter Database Locations Views  
 Column Map Nearest NONE Found Home Found

Code	Waypoint Name	Miles	Diff	Terr	Container	Placed By	Placed	Last GFX	Lo...	DNF Date	Last Found
GC2X9FR	Squamish United Church of	0.37	1.5	1.5	Micro	UPSGirl	05/30/2011	04/24/2012	4		07/12/2011
GC12CN7	St. Peter's Gate	0.42	3.0	1.5	Micro	shomethecache!	04/22/2007	04/24/2012	6	06/28/2007	07/21/2008
GC1FN1Y	Geopugz! #1 Tres	0.50	2.0	2.5	Micro	Geopugz!	09/06/2008	04/24/2012	4		08/02/2010
GC1QV3Q	The Pugz! story time	0.79	3.0	1.5	Small	Geopugz!	05/01/2009	04/24/2012	4		05/16/2009
GC1A18Y	Our Bad!	0.91	3.0	1.5	Micro	shomethecache!	03/08/2008	04/24/2012	5		07/23/2008
GC2T9CD	Multi Trunk	1.01	1.5	2.0	Small	Shaggy, Scooby, and Velm	04/16/2011	04/24/2012	4		04/22/2011
GC2T9BJ	Cowling Creek Park	1.10	1.5	1.5	Small	Shaggy, Scooby, and Velm	04/16/2011	04/24/2012	4		04/22/2011
GC2T9D4	Salmon Hatchery	1.13	1.5	2.0	Small	Shaggy, Scooby, and Velm	04/16/2011	04/24/2012	4		04/22/2011
GC1680Z	Clearwater TB Resort	1.16	2.0	2.5	Regular	WeBeBratts & DSPTR	09/26/2007	04/24/2012	5		07/23/2008
GC2X9ED	Agate Pass Bridge	1.17	2.0	1.0	Small	UPSGirl	05/30/2011	04/24/2012	4		07/19/2011
SY0996	SY0996	1.22	1.0	1.0	Unknown		06/07/2008	06/07/2008	0		
GC1GT3Z	Geopugz! #3 Totoro	1.25	2.0	1.5	Small	Geopugz!	09/30/2008	04/24/2012	4		10/21/2008
GC36FHK	Otter Trail and Salmon Fishin	1.25	1.5	2.5	Regular	Team CleBam	10/23/2011	04/24/2012	5		10/25/2011
SY0997	SY0997	1.29	1.0	1.0	Unknown		06/07/2008	06/07/2008	0		
GC388V1	Leaving Bainbridge Island	1.39	1.5	1.5	Small	cachin' couzins	11/24/2011	04/24/2012	10		12/10/2011
GC13TWR	Save our Waves	1.56	2.0	2.0	Regular	Chillmama and the Hillcats	06/21/2007	04/24/2012	5		07/20/2008
GC13TVP	Surrender your Booty! (Nig	1.61	3.0	3.0	Regular	Chillmama and the Hillcats	06/21/2007	04/24/2012	5		07/20/2008
GC9E3H2	Masi Cache	1.81	1.0	1.0	Small	Team CleBam	10/16/2011	04/24/2012	7		11/12/2011
GC2YRQH	Welcome To Bainbridge Islar	1.97	1.5	1.5	Micro	Shaggy, Scooby, and Velm	06/23/2011	04/24/2012	4		07/19/2011
GC171JD	Which One's Pink?	1.99	2.5	2.0	Regular	Radnord and Wildeyes7	10/29/2007	04/24/2012	5		07/23/2008
GC12198	Sorta Watery	2.00	3.0	2.0	Small	MojIPirates & Abey	04/08/2007	04/24/2012	5		07/20/2008
GC1ABRT	Cache-N-Carry CITO Indianok	2.16	1.0	1.0	Other	chillmama	06/07/2008	04/24/2012	7		06/07/2008
GC1N8V3	Banastics	2.16	1.0	1.5	Small	MamaOdy	03/02/2009	04/24/2012	3		03/05/2009
GC1GT43	The pugz! Locked up?! (ke	2.21	1.5	3.0	Regular	Geopugz!	09/30/2008	04/24/2012	4		10/23/2008
GC14KQJ	Indianola Park	2.35	2.0	2.5	Regular	Chillmama and the Hillcats	07/23/2007	04/24/2012	5		07/22/2008
GC2GEG	Fisherman Cache	2.42	1.5	1.5	Regular	Mr. and Mrs. Washington P	12/25/2006	04/24/2012	5		07/23/2008
GC2E02P	Independence Day 1861	2.46	1.5	1.5	Small	RationalPi	08/24/2010	04/24/2012	5		07/23/2008
GC1PMJB	Church mouse cache AKA:t	2.47	1.0	1.0	Regular	Mario from the TK1000 tea	04/06/2009	04/24/2012	5		07/23/2008

Subset: None 8323 Shown (all waypoints) Centre point = Home Counts: 8323 0 1069 0

**GSAK update available**

Your version: 8.1.1.49  
 New version: 8.1.1.51  
 For more information see [this link](#)

To download and install now [click here](#)

# GC.com Member ID and GPX Version

<http://www.geocaching.com/account/default.aspx>

**Your Profile** [Edit](#) | [Change Password](#)

**Username:** Cache U Nuts

**Member ID:** 373850

**Full Name:\*** Richard Bianchi

**Address:\***

**Occupation:** Software Engineer

**Location:** Bradenton, FL

**Forum Title:** Premium Member

**Signature:** [Review Forum Signature](#)

\*This information is not public

**Your Preferences** [Change](#)

**Language:** English

**Time Zone:** Eastern : Eastern Time (U.S. & Canada)  
Show Daylight Savings Time

**Display Units:** Use Imperial Units

**Instant Message:** None Specified

**Friend Requests:** Allow Friend Requests

**GPX Version:** GPX 1.0.1

Must be set to GPX 1.0.1 to get Attribute information

# Initial Configuration – General

The screenshot shows the 'Options' dialog box with the 'General' tab selected. The dialog is titled 'Options' and has a close button (X) in the top right corner. The tabs are: General, HTML, Locations, Display, Abbreviations, Keyboard shortcuts, and Advanced.

**General Tab Settings:**

- Default action when you double click on a waypoint:** Show offline in browser
- Method for matching placed (hidden) and found caches:** Exact match, Wild card match, Owner ID# (selected), RegEx
- Owner ID#:** 373850
- Application data:** C:\Documents and Settings\Rich\Application Data\GS
- Database Folder:** C:\Documents and Settings\Rich\Application Data\GS
- User Sort:** Current Value: 0, Increment By: 10
- Checkboxes:**
  - Automatically sort by distance after setting a centre point
  - Move to first waypoint after column sequence change
  - Show tips at start up
  - Suppress "Customize" popup hint
  - Automatically size status bar to fit
  - Name/code search beep rather than zero records message
  - Suppress "Finished OK" messages

**Status Attributes:**

Attribute	Colour	Priority
Unavailable/Archived	Pink	3
Placed	Lime	2
Found	Yellow	1
Not found	White	4

**Distance calculation:** Kilometres, Miles (selected)

**Calendar Start Day:** Sun

**Date Format:** MM/dd/yy

**Automatic Backup:** Enable (checked), Prompt (checked), Include images (unchecked), Frequency: 1

**Sort column colour:** Yellow, **Active row:** Cyan

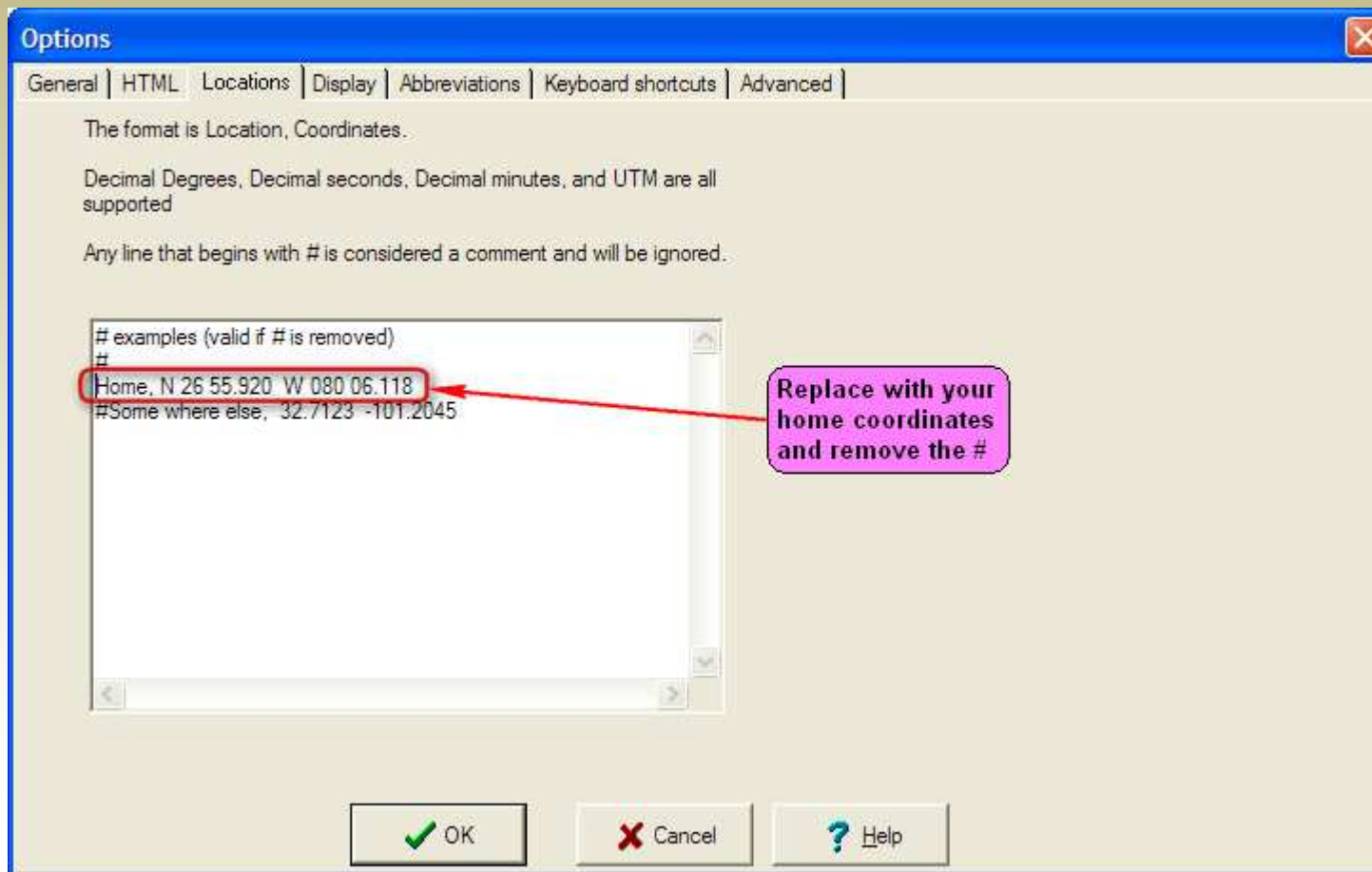
**User flag line color:** White

**Smart Name:** Drop words: the,this,a,is; Length: 8; Keep chars: ;

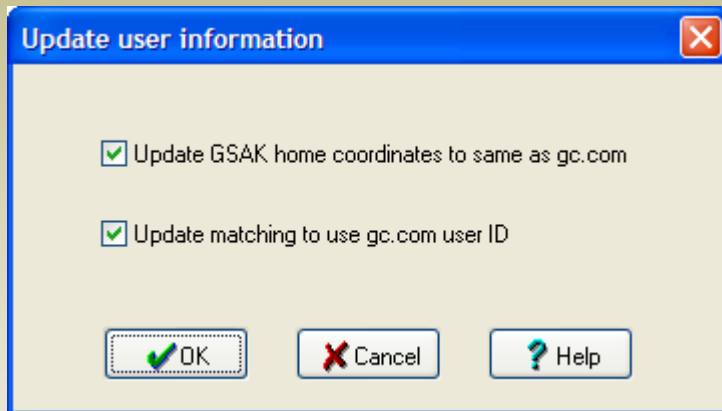
**Conversions:** (empty)

**Buttons:** OK, Cancel, Help

# Initial Configuration – Locations



# Update User Information



Update user information

Update GSAK home coordinates to same as gc.com

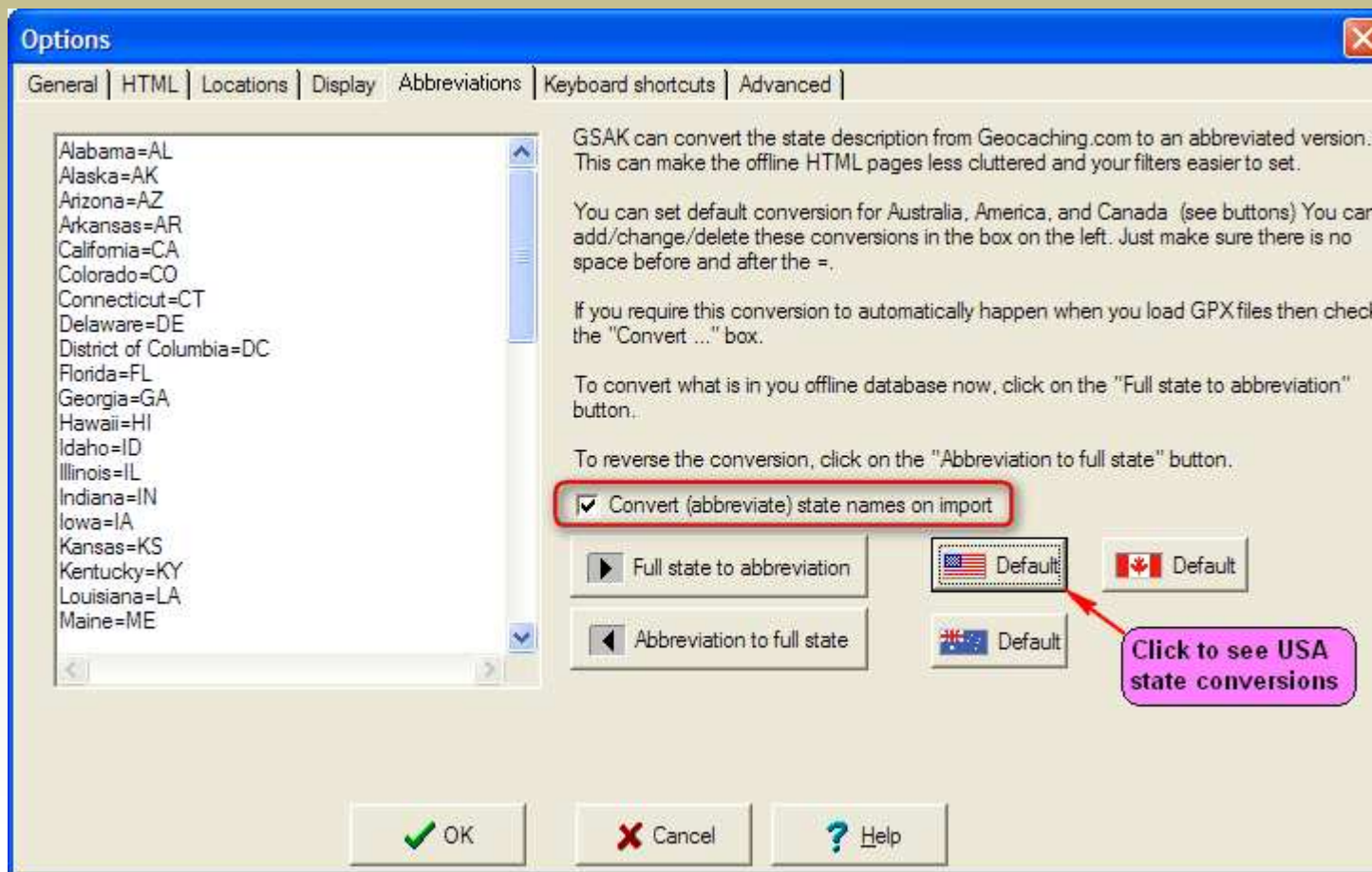
Update matching to use gc.com user ID

OK Cancel Help

uType	uKey	uData
General	FindCount	247
General	HideCount	7
General	UserId	152554
General	UserName	ClydeE
General	PublicGuid	b5601b17-3258-40b6-88ee-0dfc53bd3fef
General	HomeLat	-32.432217
General	HomeLon	115.76757100000002
General	MemberType	Premium
Profile	ForumTitle	GSAK Slave
Profile	LastVisit	2011-04-25T19:25:59
Profile	Location	Western Australia
Profile	MemberSince	2003-08-21T06:38:18.107
Profile	Occupation	
Profile	PhotoDescription	
Profile	PhotoName	Happy Hound
Profile	PhotoUrl	http://img.geocaching.com/user/152554_700.JPG
Favorites	DistinctFinds	0
Favorites	PercentComplete	70
Favorites	PointsAvailable	25
Favorites	TotalPoints	25
Favorites	TotalUntilNextPoint	3

Regardless if these boxes are checked or not, GSAK also updates the table "UserInfo" in the database gsak.db3

# Initial Configuration – Abbreviations



# Screen Elements

The screenshot shows the GSAK 7.7.3.44 software interface. The window title is "GSAK 7.7.3.44 DataBase: Default". The menu bar includes File, Search, User Flags, View, Centre Point, Waypoint, Database, GPS, Macro, Tools, and Help. The toolbar contains icons for file operations, search, and navigation. Below the toolbar is a control bar with fields for "Lock First", "Code Search", "Name Search", "Split screen format" (set to "Full display"), "Select a saved filter" (set to "NONE"), "Database" (set to "Default"), "Locations" (set to "..Not active"), and "Views" (set to "Default").

The main area is a large white space labeled "Grid Area". Below it is a status bar with the following information: "Subset: None", "0 Shown (all waypoints)", "Centre point = Greenwich meridian", and "Counts: 0 0 0 0".

The bottom section is labeled "Split Screen Area" and contains the text "Nothing to display!".

Red arrows point from labels to the following elements:

- Title Bar**: Points to the blue title bar.
- Menu Bar**: Points to the menu bar.
- Tool Bar**: Points to the toolbar.
- Search Bar**: Points to the "Name Search" field.
- Status Bar**: Points to the status bar.
- Splitter Bar**: Points to the vertical bar between the status bar and the split screen area.

# Main Window

GSAAK 8.0.1.11 DataBase: Cache

File Search User Flags View Centre Point Waypoint Database GPS Macro Tools Gopocaching.com access Help

GUS GME GMS FSG FCK ACS AL LL RG RAG FB CB VDB Test SLD SNC LFP LCR PBF

Look First Code Search: Name Search: Split screen format: Select a saved filter: Database: Locations: Views:

Column: Full display NONE Cache 1-75 & SR70 Cache

Code	Waypoint Name	Owner Name	Container	Diff	Ter	Mis	Big	Fav	Placed	Changed	Last Log	Last Found	DNF Date	Found by me	H	Usort	Logt
GC1M6AE	Silver Bullet	infinte1PG	Micro	3.0	1.5	0.25	E	5	01/25/09	10/03/11	04/08/11	04/08/11		01/28/09	✓	1082	84
GCN17V	A new Cache	Team Fahfy	Small	1.5	1.0	0.27	W	0	03/07/05	11/17/11	11/16/11	11/16/11	04/28/05	05/08/05	✓	6	271
GC1484V	Dirty Low Down Scoundrel	infinte1PG	Regular	2.0	2.0	0.33	N	0	07/13/07	10/19/11	10/09/11	10/09/11		07/15/07	✓	571	129
GC29SE5	HKK 9 Birthday Cache	HazehurstKid	Regular	2.5	2.5	0.34	NE	2	05/29/11	11/11/11	11/10/11	11/10/11		08/04/11	✓	2220	9
GC489G	Trasha Cache	Lincoln Tiger & Captain So	Micro	1.0	1.0	0.36	W	0	11/09/03	08/25/11	10/10/04	10/03/04			✓		5
GCV8PK	New Way in, No Way Out	infinte1PG	Regular	2.0	2.0	0.37	W	0	04/10/06	11/04/11	11/03/11	11/03/11		07/10/06	✓	85	151
GC13TKR	Conservation Traffic	infinte1PG	Micro	2.0	1.5	0.41	N	0	06/29/07	10/03/11	07/29/11	02/12/11		06/22/07	✓	533	48
GC1JAF9	Leapin' Lizards	infinte1PG	Other	1.0	1.0	0.42	W	0	12/10/08	10/02/11	12/22/08	12/12/08		12/10/08	✓	1036	51
GC1K1R2	Leapin' Lizards - Tail Ziver!	infinte1PG	Other	1.0	1.0	0.42	W	0	01/14/09	10/02/11	01/18/09	01/15/09		01/14/09	✓	1071	43
GC1JBP	Beats Will Be Ringing	infinte1PG	Micro	3.0	1.5	0.47	NW	5	02/21/06	10/27/11	10/26/11	10/26/11		07/03/06	✓	47	210
GC1EYHF	Don't HESitate	infinte1PG	Micro	2.0	1.5	0.51	SE	0	09/22/06	10/27/11	10/26/11	10/26/11		09/22/06	✓	206	210
GC0AAS	Rise and Shine	infinte1PG	Small	1.0	2.0	0.52	NW	0	07/24/08	10/28/11	10/24/11	10/24/11		07/24/08	✓	77	173
GC1JMW	#024 - Trivia... but not trivial	Pfadfinder_FL	Micro	1.0	1.5	0.56	W	0	11/11/08	10/27/11	10/26/11	10/26/11		11/12/08	✓	857	128
GC2PKEA	Frog Lake	infinte1PG	Micro	2.0	1.5	0.58	SE	4	03/02/11	10/19/11	10/16/11	10/16/11		03/03/11	✓	2088	17
GC48CQD	Good Will Hunting	bananasplit	Micro	2.5	1.0	0.81	W	0	08/22/07	10/02/11	05/30/08	01/24/08		08/25/07	✓	580	29
GC2MSAR	HKK 4 Lets make a Deal	HazehurstKid	Small	2.5	2.5	0.81	NE	0	01/09/11	11/14/11	10/23/11	10/23/11		01/10/11	✓	2056	29
GC1T08V	Es Peridic	lyndberg	Other	4.0	1.5	0.82	NW	0	06/14/09	10/03/11	08/21/11	08/21/11		07/11/09	✓	1377	33
GC2MHR4	Dry Land or Wet Land ?????	randco	Regular	2.5	2.0	0.82	E	0	06/20/10	10/27/11	10/26/11	09/18/11		07/19/10	✓	1888	48
GC0M5K	Where's Waldo?	infinte1PG	Regular	3.0	2.0	0.83	SE	0	00/09/08	11/07/11	11/02/11	11/02/11		08/10/08	✓	99	113
GC09G4L	RoseVeil	Tritanac	Regular	2.8	3.0	0.84	NE	0	07/22/08	10/02/11	09/10/08	09/03/07		07/23/08	✓	78	31

Subset: None 4093 Shown (all waypoints) Centre point = 1-75 & SR70 Counts: 3877 1404 1495 10

---

**GCX96N RoseVeil**

Type: Traditional | Size: Regular | Difficulty: ★★☆☆☆ | Terrain: ★★★★★

By: [BigMahima](#) | Hidden: 07/22/06 | Status: Archived

Country: United States | State: FL | County: Manatee

Coordinates: N27° 26.969 W82° 27.288 UTM 17R E 356231 N 3037063

Last updated: 10/02/11 | Fav points: 0

RoseVeil - A full sized ammo can.

Please use the Camera!

RoseVeil 7.22.06

This was moved from it's original location - it's a very easy find now you can almost literally drive right up to it.

In this cache you will find lots of stuff - but use the Camera to take a photo! Don't take it! :)

**Hints**

Nestled in a Tree.

**Custom URLs**

[GeoHack](#)  
[GCAB.org](#)

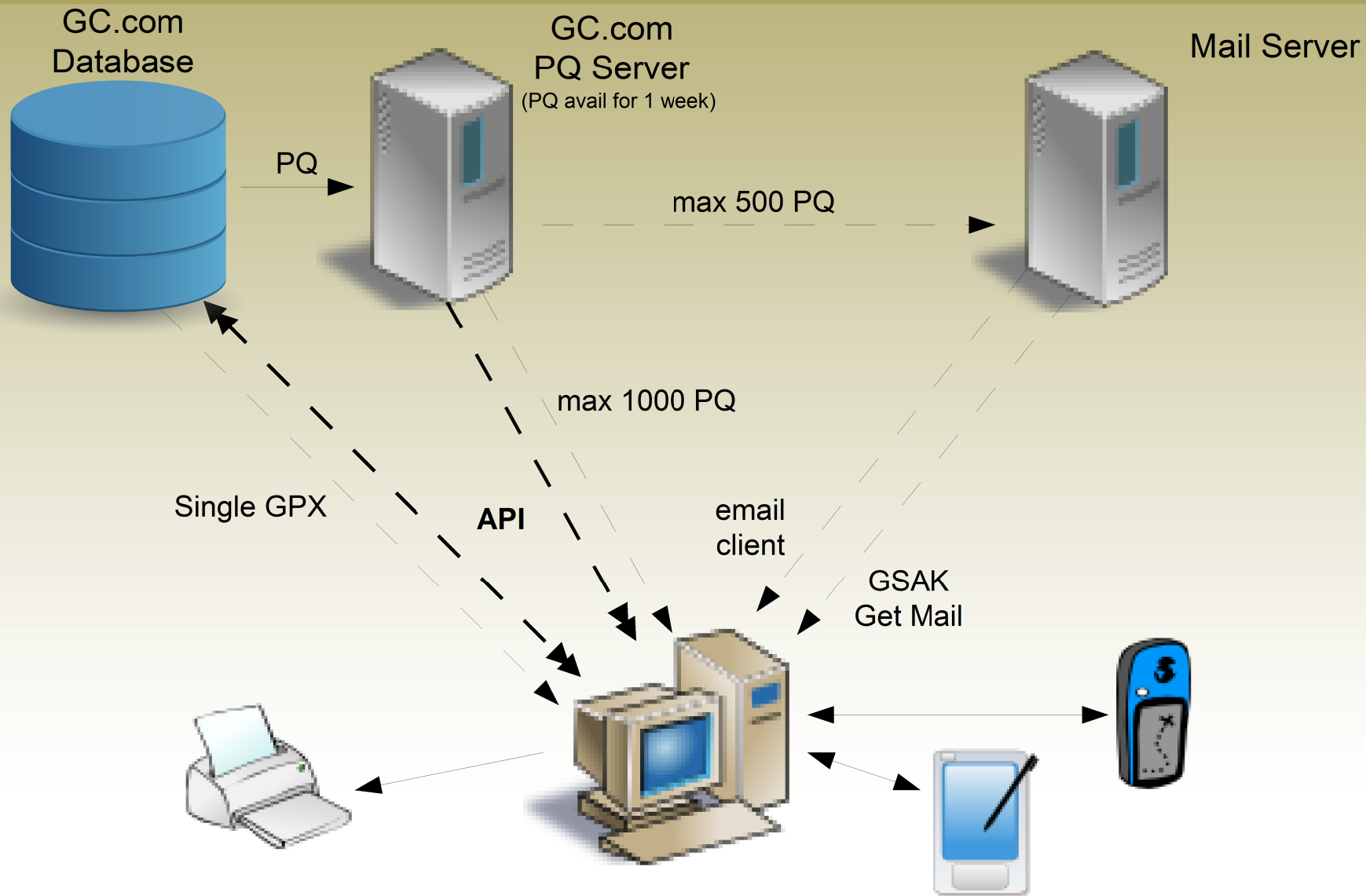
Hide Map | Splitscreen | Browser | Refresh

[Driving Directions](#)

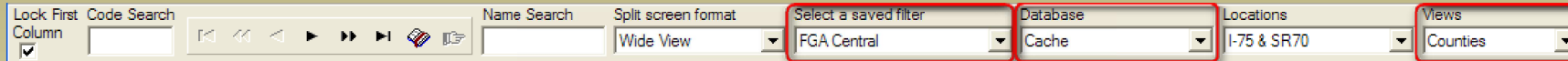
**Logs**

- 03/10/08 by [palmetto](#)  
archive
- 01/19/08 by [palmetto](#)  
Please check on this one, thanks
- 06/30/07 by [Hawkhaven](#)

# Architecture and Work-flow

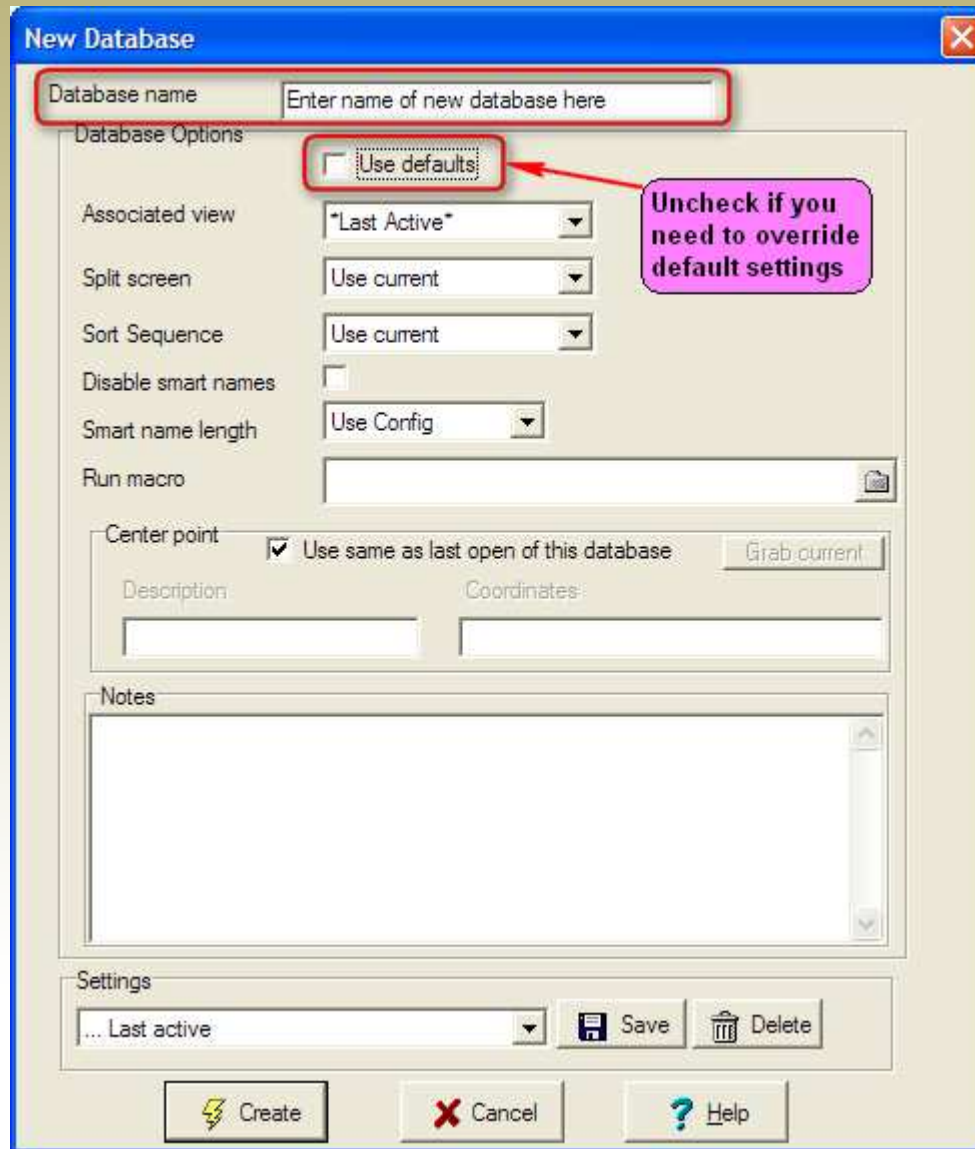


# Key Concepts



- Database – Collection of data items
  - Caches, Benchmarks, Trackables, etc.
  - Records (rows) of Fields (columns)
  - Usually populated by GPX files (PQs)
- View – Subset of columns
  - Selection, Order, Width
  - Sortable by column (primary, secondary)
- Filter – Subset of rows
  - GUI, Arc/Poly, or SQLite-based
  - Also filtered by Code/Name Search
  - Most actions only act on filter

# Creating a New Database



The screenshot shows the 'New Database' dialog box with the following elements:

- Database name:** A text input field containing the placeholder text 'Enter name of new database here'. This field is highlighted with a red rectangular box.
- Database Options:** A section containing several settings:
  - Use defaults:** A checkbox that is currently unchecked. It is highlighted with a red rectangular box, and a red arrow points from a pink callout box to it.
  - Associated view:** A dropdown menu set to '\*Last Active\*'. A pink callout box with the text 'Uncheck if you need to override default settings' is positioned to the right of this dropdown.
  - Split screen:** A dropdown menu set to 'Use current'.
  - Sort Sequence:** A dropdown menu set to 'Use current'.
  - Disable smart names:** An unchecked checkbox.
  - Smart name length:** A dropdown menu set to 'Use Config'.
  - Run macro:** An empty text field with a file icon on the right.
- Center point:** A section with a checked checkbox 'Use same as last open of this database' and a 'Grab current' button. Below this are two empty text fields labeled 'Description' and 'Coordinates'.
- Notes:** A large, empty text area with a vertical scrollbar on the right.
- Settings:** A section with a dropdown menu set to '... Last active', a 'Save' button, and a 'Delete' button.
- Buttons:** At the bottom of the dialog are three buttons: 'Create' (with a lightning bolt icon), 'Cancel' (with a red X icon), and 'Help' (with a question mark icon).

# Databases

The screenshot shows the GSAK 7.7.3.45 software interface. The title bar indicates the current database is 'Cache'. The 'Database' menu is open, showing options like 'Select...', 'New...', 'Rename...', 'Save As...', 'Move/Copy Waypoints...', 'Repair/Defrag', 'Delete', 'Maintain Ignore List...', 'Delete all Waypoints', 'Recalculate Smart Names...', 'Global replace...', 'Purge Logs...', 'Properties...', 'Totals...', 'Grab Images...', and 'Force use of grabbed images in HTML'. The 'Database' dropdown in the toolbar is set to 'Cache'. The main window displays a table of waypoints with columns: Container, Diff, Terr, Miles, Big, Placed, Changed, Last Found, DNF Date, Found by me, ftf, Usort, State, and County. The table contains 24 rows of data, with the last row highlighted in blue. The status bar at the bottom shows 'Subset: FGA Central', '24 Shown (out of 3139) 0.8%', 'Centre point = I-75 & SR70', and 'Counts: 7 17 12 0'.

Container	Diff	Terr	Miles	Big	Placed	Changed	Last Found	DNF Date	Found by me	ftf	Usort	State	County
Small	1.0	1.0	79.22	NE	01/04/06	06/17/10	11/22/07		11/22/07		645	FL	Lake
Not chosen	1.5	2.0	81.12	E	06/04/07	12/31/10	08/29/10					FL	Osceola
Regular	1.5	1.0	81.91	NE	06/03/06	06/17/10	11/22/07		11/22/07		644	FL	Osceola
Regular	1.0	1.0	82.38	NE	01/08/03	06/17/10	11/22/07		11/22/07		642	FL	Osceola
Small	2.0	2.0	82.48	NE	01/24/07	06/17/10	11/22/07		11/22/07		643	FL	Osceola
Not chosen	1.0	1.0	82.80	NE	09/06/07	12/31/10	12/25/10		11/22/07		646	FL	Lake
Not chosen	1.0	1.0	84.42	NE	04/17/10	05/14/10	04/18/10					FL	Orange
Not chosen	1.0	1.0	84.56	NE	09/07/10	09/24/10	09/12/10					FL	Orange
Other	1.5	1.5	86.37	NE	02/26/11	01/14/11						FL	Orange
Small	2.0	1.0	87.53	NE	03/28/10	08/31/10	07/05/10		07/01/10		1821	FL	Orange
Other	1.0	1.0	88.09	NE	01/07/11	01/14/11	01/08/11					FL	Lake
Not chosen	1.0	1.0	88.55	NE	11/18/10	12/10/10	11/19/10					FL	Lake
Not chosen	1.0	1.0	90.72	NE	05/27/10	06/04/10	05/30/10					FL	Orange
Not chosen	2.5	1.5	91.71	NE	10/28/09	12/31/10	12/28/10					FL	Orange
Not chosen	5.0	1.0	97.16	NE	08/08/09	10/12/10	10/03/10					FL	Orange
Other	1.0	1.0	99.40	NE	08/01/10	09/24/10	08/08/10					FL	Orange
Micro	1.0	1.0	106.79	NE	03/02/09	07/06/10	07/03/10		07/01/10		1822	FL	Seminole
Other	2.0	2.0	107.43	NE	05/15/10	06/18/10	06/11/10					FL	Lake
Small	2.5	2.0	107.56	NE	03/24/09	10/26/10	08/14/10					FL	Lake
Regular	1.0	4.5	109.63	NE	05/22/10	06/04/10	05/22/10					FL	Seminole

- Multiple databases can be created and selected from dropdown list
- Image data can be grabbed and cached locally for offline viewing
- Waypoints can be moved or copied between databases
- Global replace for field changes across many waypoints

# Views

The screenshot shows the GSAK 7.7.3.45 interface with a table of geocaching data. The table has columns for Code, Owner Name, Container, Diff, Terr, Miles, Brg, Placed, Changed, Last Log, Last Found, DNF Date, Found by me, Hf, Usort, and Logs. The 'Placed' column is highlighted in red. A dropdown menu is open for the 'Views' column, showing 'Cache' selected. Three callout boxes provide instructions: 'Drag column divider left or right to change column width' (pointing to a vertical line between columns), 'Drag column header left or right to change column order' (pointing to the 'Placed' header), and 'Right-click column header to change name' (pointing to the 'Usort' header).

Code	Owner Name	Container	Diff	Terr	Miles	Brg	Placed	Changed	Last Log	Last Found	DNF Date	Found by me	Hf	Usort	Logs
GCRWHK	Bumblebeetoo	Small	1.0	1.0	79.22	NE	01/04/06	06/17/10	11/22/07	11/22/07		11/22/07		645	197
GC13D95	A River Restored Earthcache				81.12	E	06/04/07	12/31/07							14
GCWD1C	Destination Disney World	Focles			81.91	NE	06/03/06	06/17/07				11/22/07		644	442
GCC142	Celebrate Disney II	Blue Man			82.38	NE	01/08/03	06/17/07				11/22/07		642	900
GC10J6G	Across the Pond	FoclesSwab	Small	2.0	2.0	82.48	NE	01/24/07	06/17/10	11/22/07	11/22/07	11/22/07		643	169
GC15QNG	Lake Louisa Earthcache	Monetta55	Not chosen	1.0	1.0	82.80	NE	09/06/07	12/31/07					646	21
GC22W23	BK-12 Back to the Boardwalk	BroKarl	Not chosen	1.0	1.0	84.42	NE	04/17/10	05/11/10						30
GC2APV3	I'm here 2..... oh yeah, I'm here too!	pumpkinking27	Not chosen	1.0	1.0	84.56	NE	09/07/10	09/24/10	09/15/10	09/12/10				23
GC2KDPA	Expedition from the Great White North	mrcanohead224	Other	1.5	1.5	86.37	NE	02/26/11	01/14/11	01/11/11					13
GC25RPC	Blackbeards Treasure	4man2000	Small	2.0	1.0	87.53	NE	03/28/10	08/31/10	07/05/10	07/05/10		07/01/10		20
GC2GP0T	M&G #2 - Dine and Cache	familycachefinders	Other	1.0	1.0	88.09	NE	01/07/11	01/14/11	01/08/11	01/08/11				15
GC2GR5X	Meet & Greet #1 - The Beginning	trippy1976	Not chosen	1.0	1.0	88.55	NE	11/18/10	12/10/10	11/19/10	11/19/10				30
GC288GD	Geocaching "101'1/2" and GSAK! Part Deux	the1acwright	Not chosen	1.0	1.0	90.72	NE	05/27/10	06/04/10	05/30/10	05/30/10				20
GC20CPT	A bunch of Weir-dos in Florida	drgoby	Not chosen	2.5	1.5	91.71	NE	10/28/09	12/31/10	12/28/10	12/28/10				5
GC1WZTQ	Number Of The Beast	jim32809	Not chosen	5.0	1.0	97.16	NE	08/08/09	10/12/10	10/03/10	10/03/10				19
GC2ANJC	The 1st Annual West Side BBQ	Jarro88	Other	1.0	1.0	99.40	NE	08/01/10	09/24/10	08/08/10	08/08/10				41
GC1N8Y0	Plattitudinous #1 BPLP	War1man and MIMI	Micro	1.0	1.0	106.79	NE	03/02/09	07/06/10	07/03/10	07/03/10		07/01/10		20
GC24ME7	Cede's Night Time Adventure with StarDust25	MercedesL	Other	2.0	2.0	107.43	NE	05/15/10	06/18/10	06/11/10	06/11/10				40
GC1P4AT	The Anti G-Rail	sk8er1113	Small	2.5	2.0	107.56	NE	03/24/09	10/26/10	10/21/10	08/14/10				35
GC26E09	Top Secret CITO event	thelanes	Regular	1.0	4.5	109.63	NE	05/22/10	06/04/10	05/22/10					26

Subject: FGA Central | 24 Shown (out of 3139) 0.8% | Centre point - I-75 & SR70 | Counts: 7 17 12 0

- Multiple views can be created and selected from dropdown list
- View defined by column selection, order, width, and name
- Can be scrolled horizontally to view off-screen columns
- First column can be locked in place to exempt from scrolling



# Views – Supported Columns (Fields)

## Derived from GPX

Archived/Unavailable (Status)  
Cache Type  
Code  
Container  
Country  
Difficulty  
Favorite Points \*  
GC.com Note \*  
Guid \*  
Hints  
Latitude  
Longitude  
Owner ID  
Owner Name  
Placed By  
Placed Date  
Premium \*  
Source  
State  
Terrain  
Travel Bugs  
URL  
Waypoint Name

## Managed by GSAK

Bearing  
Changed Date  
County  
Creation Date  
Date Found By Me  
Degrees  
Did Not Find Date  
Did Not Find Status (DNF)  
Distance  
Elevation  
Found Count  
Found Status  
Last Found  
Last Four Logs  
Last GPX Update  
Last Log Date  
Last User Update  
Macro Sort  
Number of Logs  
Resolution  
Row Number  
Smart Name

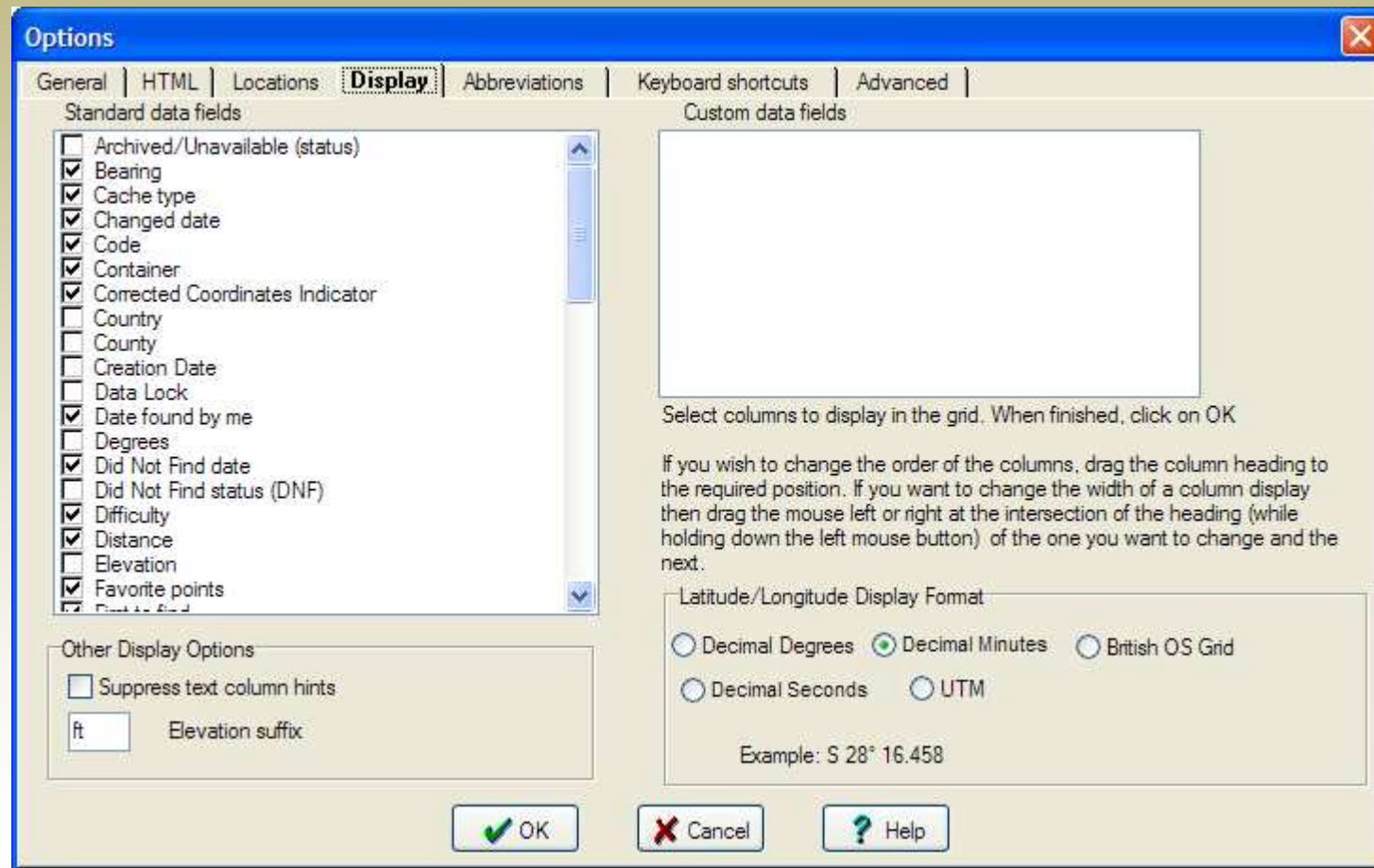
## Managed by User

Corrected Coordinates Indicator  
Data Lock  
Notes  
User Data  
User Data 2  
User Data 3  
User Data 4  
User Flag  
User Sort  
Watch Status

*Additional user-defined  
Custom Data fields are  
also supported.*

\* currently only populated by API

# Views – Selecting Columns (Fields)





# Pocket Query Types

- Individual GPX – single cache, on-demand
- Standard PQ – caches in a wide area, scheduled
- Bookmark PQ – user-defined set of caches, scheduled
- User Route PQ – caches within a user defined corridor, scheduled
- My Finds PQ – all your found caches, on-demand

	Individual GPX	Standard PQ	Bookmark PQ	User Route PQ	My Finds PQ
Cache Limit	1	500 / 1000	500 / 1000	500 / 1000	No limit
Archived Included	Yes	No	Yes	No	Yes
Number of Logs	20 + own	5 + own	5 + own	5 + own	Only own
Minimum Interval	Unlimited	5 per day (24 hour basis)			3 days
Saved PQs	N/A	Very high limit			N/A



# Standard PQs – Cache Selection Criteria

- Cache Type
- Container
- Difficulty Rating
- Terrain Rating
- Geographic Area – Within a Political Boundary
  - Country
  - State / Province
- Geographic Area – Within Radius of an Origin
  - Home Coordinates
  - Specified Cache
  - Specified Postal Code
  - Specified Coordinates
- Placed Date
- Misc – Active, Not Found, Recently Found, etc.



# PQs – Using “Date Placed” Ranges

It takes some trial and error to ‘dial it in’... Around 990 is best!

- From May 3, 2000 to Jul 1, 2010

Thanks! Your pocket query has been modified and currently results in **1000** caches.

Query Name:  **Too Many**

- From May 3, 2000 to Jun 1, 2010


Thanks! Your pocket query has been modified and currently results in **979** caches.

Query Name:  **Too Few**

- From May 3, 2000 to Jun 20, 2010

Thanks! Your pocket query has been modified and currently results in **991** caches.

Query Name:  **Just Right**

The next PQ should start on Jun 21, 2010...  
Be sure to copy the PQ by clicking on the  icon

# Load Pocket Query

The screenshot shows the GSAK 7.7.3.44 interface with the 'Load GPX/LOC/ZIP File' dialog box open. The dialog box contains the following elements:

- File Path:** C:\Documents and Settings\All Users\Documents\GPS\PQ
- File types to load:** GPX, LOC, ZIP (all checked)
- Database:** Default
- Load options:** File type: GPX/LOC (including inside zip);  Use defaults
- Database update options:**  Newer only,  Always,  Existing Only,  Add Only
- How to handle the "additional" Geocaching.com waypoints:**  Exclude,  As normal waypoint,  As child waypoint
- Clear database before loading:**  Warning: this will erase old data!
- Found status update options:**  Always,  Found Only,  Never
- Delete file(s) when finished:**  Yes
- Keep current cache focus:**  Yes
- User Flag:**  Set user flag,  If matched, ONLY update user flag,  Clear all user flags first
- Load type:**  Load file(s),  Folder
- Decode HTML entities:**
- Found Symbol:** Geocache Found
- Update symbol:**
- County update:** YB
- State update:** [Empty]
- Lock fields:** [Empty]
- Settings:** ... Last active
- Buttons:** Save, Delete, OK, Cancel, Help

Annotations in the image include:

- A red arrow pointing from the 'Load' icon in the main menu to the dialog box with the text: **Click to Load GPX/LOC/ZIP File**
- A red box around the 'Use defaults' checkbox with the text: **Uncheck to override defaults**
- A red box around the 'Save' button with the text: **Save settings so you can easily recall them in the future**

The main window shows a menu bar (File, Search, User Flags, View, Centre Point, Waypoint, Database, GPS, Macro, Tools, Help) and a toolbar. The status bar at the bottom indicates 'Nothing to display!'.



# Pocket Query Load Summary

Total # of caches that were updated (new/changed logs, descriptions, coordinates, etc.)

Totals	
Waypoints in file(s) loaded	1111
Existing Waypoints updated in GSAK	109
Waypoints already up to date in GSAK	1002
<a href="#">Show full change log</a>	
Waypoints in each file	
973526.gpx (I-75 and SR70 25 mi radius - Thu A)	987
973542.gpx (I-75 and SR70 25 mi radius - Thu B)	124
973526-wpts.gpx (children)	101
973542-wpts.gpx (children)	5

Total # of caches in all files

Number of caches in each file

**WARNING:**  
If any GPX file has 1000 caches you will need to adjust its PQ.

# Download Pocket Queries – Basic tab

**Download Pocket Queries**

Basic | Advanced

<input type="checkbox"/>	Name	Date/Time ↑	Bytes	Records	Days left
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Fri A	2011-11-18T00:26:32	1049939	881	6
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Fri B	2011-11-18T00:26:32	425277	471	6
<input type="checkbox"/>	FL Events	2011-11-18T00:24:59	113117	56	6
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Thu A	2011-11-17T00:26:48	1049926	881	5
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Thu B	2011-11-17T00:26:39	423497	472	5
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Wed A	2011-11-16T00:22:54	1051154	882	4
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Wed B	2011-11-16T00:22:16	423405	472	4
<input type="checkbox"/>	FL Unknown - Tue A	2011-11-15T00:23:26	1735592	908	3
<input type="checkbox"/>	FL Unknown - Tue B	2011-11-15T00:23:26	1310559	818	3
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Mon B	2011-11-14T00:23:05	421406	471	2
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Mon A	2011-11-14T00:22:34	1053662	882	2
<input type="checkbox"/>	I-75 and SR70 25 mi radius - Sun A	2011-11-13T00:18:51	1054399	882	1

Find next Find previous Highlight Match case

PQ download folder: C:\Documents and Settings\All Users\Documents\GPS\PQ Auto size columns

Run GPX load after download

Settings: Load All in PQ Folder then Delete Settings dialog

OK Cancel Help

- Grid shows all PQs that have run in the last week and are available for download
- PQs that have already been downloaded have Date/Time highlighted
- They can optionally be loaded into database after download using specified GPX Load settings

# Download Pocket Queries – Advanced tab

The screenshot shows a dialog box titled "Download Pocket Queries" with a blue header bar and a close button (X) in the top right corner. The dialog has two tabs: "Basic" and "Advanced", with "Advanced" selected. The "Advanced" tab contains the following elements:

- A checked checkbox labeled "Download all Pocket Queries not yet downloaded".
- A checked checkbox labeled "Download PQs that have names matching.....".
- A "Name" section with a dropdown menu set to "Contains", a text input field containing "I-75 and SR70 25 mi radus", and a checked checkbox labeled "Ignore case".
- A "Settings" section with a dropdown menu set to "I-75 and SR70 25 mi radius - All New", a "Save" button with a floppy disk icon, and a "Delete" button with a trash can icon.
- At the bottom of the dialog are three buttons: "OK" with a green checkmark, "Cancel" with a red X, and "Help" with a question mark.

- Instead of manually selecting which PQs to download, you can choose all that have not yet been downloaded
- Additionally, or alternately, you can restrict the selection by PQ Name

# Get Geocaches – Basic tab

**Get Geocaches** [X]

**Basic** | Advanced

Reference

Circle  
 Rectangle  
 GCXXXX code

Center point: I-75 & SR70, N 27 26.475, W 082 27.565 [v] [Google Map]

Max Distance: 25 [Miles] [Feet]

Max geocaches: 6000 Logs per cache: 30 (Max 30 allowed)

Include:  Found by me  Disabled

Container size:  Large  Regular  Small  Micro  
 Other  Virtual  Not chosen

Cache types:  Traditional  Locationless  Project APE  Groundspeak HQ  
 Multi  Virtual  Mega Event  L&F Celebration  
 Letterbox  Web Cam  Maze Exhibit  
 CITO  Mystery  Wherigo  
 Event  Earth  L&F Event

Difficulty between: 1.0 [v] 5.0 [v]

Terrain between: 1.0 [v] 5.0 [v]

Settings: ... Last active [v] [Save] [Delete]

[OK] [Balances] [Cancel] [Help]

- Center Point – enter directly or chose from predefined Locations
- Max Distance – limited to 31 miles currently but will soon be increased to be 124 miles max.
- Bounding box – you can use this *instead of* the circular area (limit on distance between the two points is 62 miles)
- GCXXXX – a maximum of 30 coma-separated GC codes
- Max geocaches to get – limited to 6000 per day for Full format or 10000 for Light format
- Logs per cache – gets *only* the last N logs (unlike a PQ which also includes all of *your* logs)

# Get Geocaches – Google Map Tool

GSAK circle drawing tool

GSAK FORUM GSAK Get Geocaches

Map Satellite

Radius: 25 miles (maximum 31.1 miles)

Return Coordinates Move Circle to Map Center Find Location

Google

- Map can be panned and zoomed just like any Google Map
- Find Location – accepts all methods supported by Google search (town name, post code, etc)
- Center Point can be dragged to new location
- Red arrows can be dragged to change size of enclosed area
- Circle Drawing Tool – red arrow adjusts radius
- Rectangle Drawing Tool – red arrows adjust top left and bottom right
- Return Coordinates – click to return to Basic tab with defined coords

# Get Geocaches – Advanced tab

Get Geocaches

Basic **Advanced**

Owned by

Exclude owned by

Not found by

Load settings

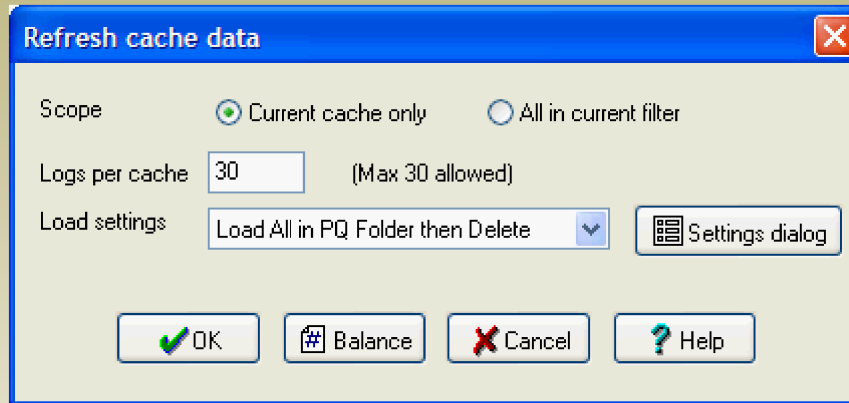
Data format  Full (slower)  Light (quicker)

Favorite points between

Settings

- Owned by – up to 5 comma-separated owner names
- Exclude owned by – up to 5 comma-separated cacher names
- Not found by – up to 5 comma-separated cacher names
- Load settings – this is the GPX Load setting
- Full format includes information not currently contained in a GPX file (e.g. Favorite Points and Premium cache indication)
- Light format does not include descriptions or logs

# Updating Existing Caches in Database

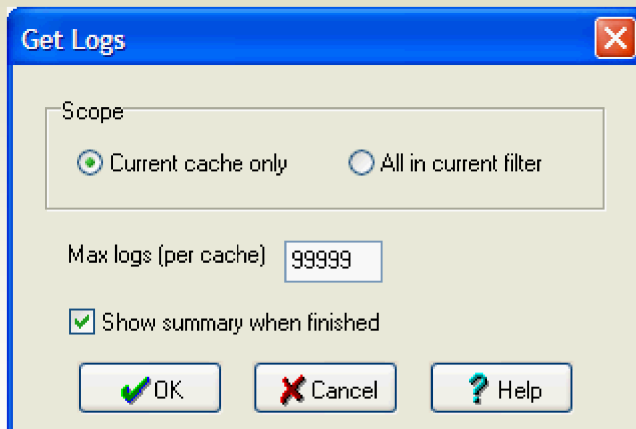


Refresh cache data

Scope  Current cache only  All in current filter

Logs per cache  (Max 30 allowed)

Load settings

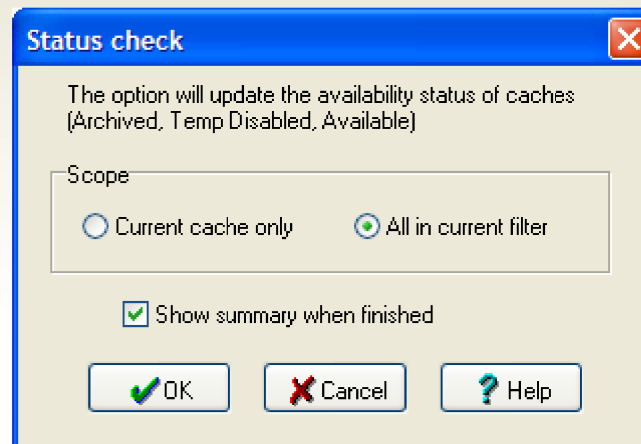


Get Logs

Scope  Current cache only  All in current filter

Max logs (per cache)

Show summary when finished



Status check

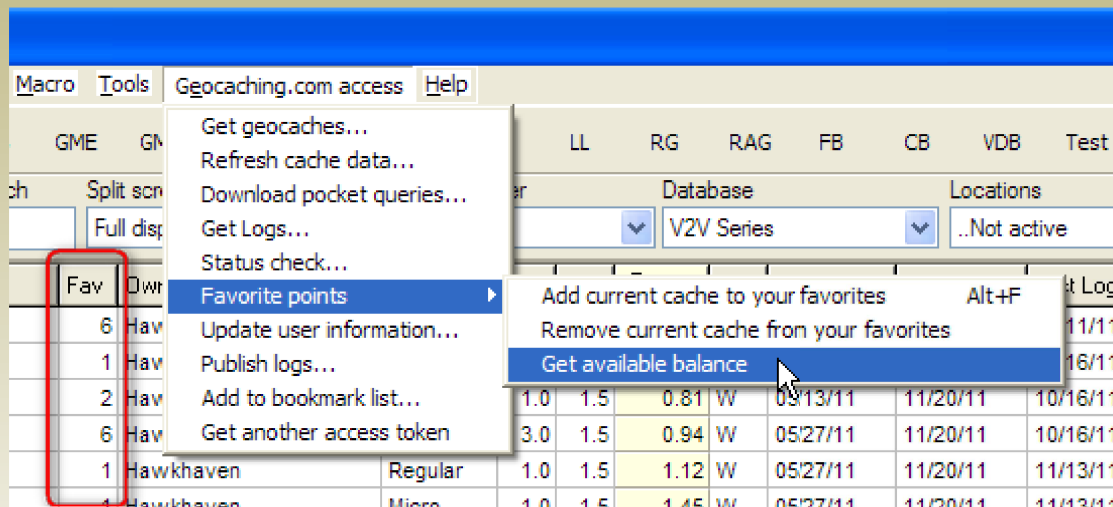
The option will update the availability status of caches (Archived, Temp Disabled, Available)

Scope  Current cache only  All in current filter

Show summary when finished

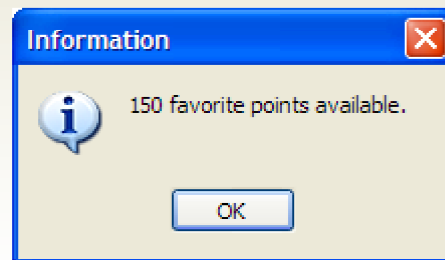
- Caches refreshed count against the 6000 cache per day limit
- Max caches per hour of 2000 is automatically paced by GSAK
- Logs per cache – gets *only* the last N logs (unlike a PQ which also includes all of *your* logs)
- Max logs – can be set to a very large number to get all logs

# Favorite Points



The screenshot shows a software interface with a menu bar (Macro, Tools, Geocaching.com access, Help) and a table of cache data. A red box highlights the 'Fav' column header. A context menu is open over the 'Fav' column, listing options: 'Favorite points' (highlighted), 'Update user information...', 'Publish logs...', 'Add to bookmark list...', and 'Get another access token'. A sub-menu is open for 'Favorite points', listing: 'Add current cache to your favorites' (Alt+F), 'Remove current cache from your favorites', and 'Get available balance' (highlighted by the mouse cursor).

LL	RG	RAG	FB	CB	VDB	Test			
Database		Locations							
V2V Series		..Not active							
Fav	Dwr	st Log							
6	Hav	11/11							
1	Hav	16/11							
2	Hav	10/16/11							
6	Hav	10/16/11							
1	Havkhaven	Regular	1.0	1.5	1.12	W	05/27/11	11/20/11	11/13/11
1	Havkhaven	Micro	1.0	1.5	1.45	W	05/27/11	11/20/11	11/13/11



- API functions include information about favorite points
- The favorite point field can be added to the grid
- A favorite point can be added to or removed from the current cache
- The number of available favorite points can be checked

# Add to Bookmark List

Add to bookmark list

Select a bookmark, chose your scope, then click on the add button

Name	Shared	Public	Caches
Archived	false	false	82
Best Hide Technique	true	true	51
Fifty (?) Challenge	true	true	50
Florida 250 Star Challenge	true	true	85
My First To Find Caches	false	false	213
Puzzles - FGA SW	true	false	0
Test	false	false	3

Match case

Scope  
 Current cache only  All in current filter

- API can not create a bookmark list, so you must first make sure you have created the bookmark list online

# Center Point

The screenshot shows the GSAK 7.7.3.45 interface with the 'Locations' dropdown menu open. The 'Miles' column in the main table is highlighted, and a callout box points to it with the text 'Computed based on the distance from the current Center Point'. Another callout box points to the status bar, which displays 'Centre point - I-75 & SR70', with the text 'Displays current Center Point'.

Code	Owner Name	Container	Diff	Terr	Miles	Brg	Placed	Changed	Last Log	Last Found	DNF Date	Found by me	ff	Usort	Logs
GCRWHK	Bumblebeetoo	Small	1.0	1.0	79.22	NE	01/04/06	06/17/10	11/22/07	11/22/07		11/22/07		645	197
GC13D95	JerseyGirl & Bruno	Not chosen	1.5	2.0	81.12	E	06/04/07	12/31/10	08/29/10	08/29/10					14
GCWD1C	FocsleSwab	Regular	1.5	1.0	81.91	NE	06/03/06	06/17/10	11/22/07	11/22/07		11/22/07		644	442
GCC142	Blue Man	Regular	1.0	1.0	82.38	NE	01/08/03	06/17/10	11/22/07	11/22/07		11/22/07		642	900
GC10J6G	FocsleSwab	Small	2.0	2.0	82.48	NE	01/24/07	06/17/10	11/22/07	11/22/07		11/22/07		643	169
GC15QNG	Monetta55	Not chosen	1.0	1.0	82.80	NE	09/06/07	12/31/10	12/25/10	12/25/10		11/22/07		646	21
GC22W23	BroKarl	Not chosen	1.0	1.0	84.42	NE	04/17/10	05/14/10	04/22/10	04/18/10					30
GC2APV3	pumpkin27	Not chosen	1.0	1.0	84.56	NE	09/07/10	09/24/10	09/15/10	09/12/10					23
GC2KDPA	mrcanohead224	Other	1.5	1.5	86.37	NE	02/26/11	01/14/11	01/11/11						13
GC25RPC	4man2000	Small	2.0	1.0	87.53	NE	03/28/10	08/31/10	07/05/10	07/05/10		07/01/10		1821	20
GC2GP0T		Other	1.0	1.0	88.09	NE	01/07/11	01/14/11	01/08/11	01/08/11					15
GC2GR5X		Not chosen	1.0	1.0	88.55	NE	11/18/10	12/10/10	11/19/10	11/19/10					30
GC28BGD		Not chosen	1.0	1.0	90.72	NE	05/27/10	06/04/10	05/30/10	05/30/10					20
GC20CPT	drgoby	Not chosen	2.5	1.5	91.71	NE	10/28/09	12/31/10	12/28/10	12/28/10					5
GC1WZTQ	jim32809	Not chosen	5.0	1.0	97.16	NE	08/08/09								19
GC2ANJC	Jarro88	Other	1.0	1.0	99.40	NE	08/01/10								41
GC1N8Y0	War1man and MIMI	Micro	1.0	1.0	106.79	NE	03/02/09	07/06/10	07/03/10	07/03/10		07/01/10		1822	20
GC24ME7	MercedesL	Other	2.0	2.0	107.43	NE	05/15/10	06/18/10	06/11/10	06/11/10					40
GC1P4AT	sk8er1113	Small	2.5	2.0	107.56	NE	03/24/09	10/26/10	10/21/10	08/14/10					35
GC26E09	thelanes	Regular	1.0	4.5	109.63	NE	05/27/10	06/04/10	05/22/10	05/22/10					26

- Multiple locations can be defined and selected from dropdown list
- Can be set based on post code or manually entered Lat/Lon
- Can be set to current physical location by a connected GPSr
- Distance column computed based on Center Point

# Sorting

The screenshot shows the GSAK 7.7.3.49 software interface with a table of waypoints. The table has columns for Code, Waypoint Name, Owner Name, Container, Terr, Miles, Brg, Placed, Changed, Last Log, Last Found, DNF Date, Foundby me, ltf, Usort, and Logs. The 'Terr' column is currently sorted, and the 'Miles' column is the secondary sort column. Annotations explain that clicking a column header sorts by that column, and clicking it again reverses the sort order. A secondary sort column is also indicated. A hover tooltip for the 'Terr' column header shows the primary and secondary sort orders.

Code	Waypoint Name	Owner Name	Container	Terr	Miles	Brg	Placed	Changed	Last Log	Last Found	DNF Date	Foundby me	ltf	Usort	Logs
GCHX5H	COMBAT!	Gator Man	Regular	4.5	4.5	153.15 E	03/12/04	09/07/09	03/28/09	03/26/09					111
GC284CD	JP1			4.5	5.0										36
GC18CHM	ww			5.0	1.0							05/10/08		867	82
GC1GMA0	#015 - Lorraine - Parlez-Vous Français?	Pfadfinder_FL	Other	5.0	1.0	3.92 E	09/26/08	12/22/10	12/18/10	12/18/10				1715	30
GC1GMA9	#016 - "Bite me, and Bite me, It's fun!"	Pfadfinder_FL	Other	5.0	1.0	4.07 S	09/26/08	03/11/10	11/20/09						4
GC1WJND	BULLSEYE	Pfadfinder_FL	Not choser	5.0	1.0	1.26 W	07/30/09	02/19/10	11/20/09		09/03/09				7
GCJG5Q	memorial lake	joesaz	Micro	5.0	1.0	153.17 E	05/20/04	12/11/09	12/07/09	12/07/09		12/07/09		1654	21
GC1WZTQ	Number Of The Beast	jim32809	Not choser	5.0	1.0	97.16 NE	08/08/09	10/12/10	10/03/10	10/03/10					19
GC23VCR	Grape Stained Soles	infinteMPG	Micro	5.0	1.5	3.61 S	02/10/10	12/08/10	10/30/10	10/30/10		03/19/0		1703	9
GC293BJ	'57 Classic	infinteMPG	Micro	5.0	1.5	2.60 W	05/23/10	09/01/10	08/03/10	07/30/10		07/30/0		1900	5
GC11FXQ	Rode Hard and Put Up Wet!	Of Bubba Hide	Micro	5.0	2.0	33.22 NE	03/16/07	06/17/10	02/01/09	02/01/09		02/01/09		1090	46
GC1QW55	#060 - Jolly Roger	Pfadfinder_FL	Micro	5.0	2.0	10.96 SW	05/02/09	12/31/10	12/30/10	12/30/10		07/03/09		1372	34
GC1VEZP	#062 - "If Mariokart Was Real".....	Pfadfinder_FL	Micro	5.0	2.0	0.00 S	07/04/09	03/11/10	11/20/09						2
GC1R02G	"CREW's" Hidden Secret	Lehigh Mafia	Other	5.0	2.5	87.37 SE	05/09/09	06/17/10	05/17/09	05/17/09		05/09/09		1292	23
GC1VF3G	#061 - Where did the Sasquatch go ???	Pfadfinder_FL	Regular	5.0	2.5	1.80 S	07/04/09	03/11/10	11/20/09						2
GC25NP7	"10 years! South Ft. Myers, Florida"	Blue Diamonds	Not choser	5.0	4.0	80.33 SE	05/01/10	06/07/10	05/09/10	05/05/10					38
GCT75R	Nowhere In Sight	infinteMPG	Regular	5.0	4.5	11.16 NE	01/28/06	01/19/11	01/15/11	01/15/11		01/09/07		373	56
GC4134			Micro	5.0	5.0	5.38 NW	04/20/06	08/31/10	05/16/09	02/03/08	07/10/06	07/15/06		71	50
GC1UJXX			Small	5.0	5.0	1.60 SW	03/11/09	10/27/10	10/26/10	09/19/09					16
GC283MQ	T.O.G.A. does Econfina	LionsLair	Not choser	5.0	5.0	278.76 NW	08/07/10	08/13/10	08/11/10	08/07/10					12

- String fields sort alphabetically (not case-sensitive)
- String fields can be sorted numerically by using leading zeros
- Date fields sort chronologically (stored internally as YYYY-MM-DD)
- Support for primary and secondary sorting

# Child (Additional) Waypoints

**Right-click anywhere on a waypoint's row, then select "Child waypoints..." to open the dialog**

**Bold font indicates that these waypoints have one or more child waypoints**

Code	Waypoint Name	Owner Name	Container	Diff	Terr	Miles	Brg	Placed	Changed	Last Log	Last Found	DNF Date	Foundby me	lff	Usort	Logs
GC1979Z	Nary a Waypoint in Sight	jillewille	Not chosen	3.0	2.0	10.09	S	02/08/08	06/17/10	05/16/09	10/15/08		02/09/08	✓	788	25
<b>GC175R</b>	<b>Nowhere In Sight</b>		Regular	1.5	2.0	11.83	NW	03/22/06	12/04/10	12/03/10	12/23/09		05/27/07	I	544	108
GC144W	Caught In A Bickel		micro													
GC2JGZP	After An All Night Cache Run I Got The Munches		micro													
GCY24N	I hate these FLY by night cachers..		micro													
GC183WQ	Straight Into the Country		small													
GC187N0	Barking up the Right Tree		micro													
GC1ABC3	Knights of Shooting Stars		micro													
GC27PWZ	A Night for the Harbor		Regular													
GC227K0	Jesse Knight - Owen Creek		small													
GC1Q2H3	TRANQUILITY'S LIGHT		Regular													
GC1M898	A Mighty Cache		micro													
GC1DQ5D	Night Caching #1		micro													

Code	Flag	Type	Name	Date	Latitude	Longitude	ByUser
BBT75R	✓	Trailhead	Bee Hives to Avoid	05/25/06	N27° 31.129	W82° 16.800	✓
PKT75R	✓	Parking Area	Parking	05/25/06	N27° 29.881	W82° 18.695	✓
S2T75R	✓	Stages of a Multi	Nowhere In Sight - Stage 2	03/09/07	N27°	W82°	✓
S3T75R	✓	Stages of a Multi	Nowhere In Sight - Stage 3	03/09/07	N27°	W82°	✓
S4T75R	✓	Stages of a Multi	Nowhere In Sight - Stage 4	03/09/07	N27°	W82°	✓
SFT75R	✓	Final Location	Nowhere In Sight - Stage Final	03/09/07	N27°	W82°	✓

## Child Waypoint Types

Final Location  
 Parking Area  
 Question to Answer  
 Stages of a Multicache  
 Trailhead  
 Reference Point

- Published by cache owner or defined by user
- Sent to GPSr for navigation (optional)
- Some macros will display on map (optional)
- Listed in Split Screen

# Corrected Coordinates

**Corrected Coordinates**

GC1TD88 Hunter's Point

Corrected coordinates (datum must be WGS 84)

Lat/Lon:

State:

County:

Degrees: 27.46595 -82.679467  
Minutes: N 27° 27.957 W 82° 40.768  
Seconds: N 27° 27' 57.42" W 82° 40' 46.08"  
UTM: 17R E 334050 N 3039167  
Distance from original: 0.128miles SE

Coordinates from last GPX load on 11/25/10

Degrees: 27.467583 -82.680467  
Minutes: N 27° 28.055 W 82° 40.828  
Seconds: N 27° 28' 3.30" W 82° 40' 49.68"  
UTM: 17R E 333954 N 3039349  
State: FL  
County: Manatee

Save Delete Cancel Help

Miles	Brg	Placed	Changed	Last Log	Last Found	DNF Date	Found by me	ff	Usort	Logs
13.45	W	09/24/07	01/13/11	01/12/11	01/12/11		09/29/07	☑	620	107
13.46	NE						11/23/08	☐	994	19
13.47	NE						03/17/07	☐	407	13
13.47	NE						04/14/08	☐	853	7
13.47	W	10/27/08	11/29/10	11/28/10	11/28/10	11/12/08	11/21/08	☐	985	65
13.55	W	07/19/08	07/28/08	07/22/08				☐		4
13.55	S						03/22/09	☐	1167	120
13.57	N						01/06/08	☐	721	95
13.58	NE						01/09/07	☐	367	23
13.60	W	06/07/09	11/25/10	11/25/10	10/07/10		09/06/09	☐	1408	34
13.61	NW	07/22/08	01/20/11	01/11/11	01/11/11		10/12/08	☐	952	133
13.62	W	07/06/07	01/19/11	01/16/11	01/16/11		09/16/07	☐	611	140
13.67	S	02/06/09	01/19/11	01/18/11	01/18/11			☐	45	
13.68	W	11/24/10	01/09/11	01/08/11	01/08/11		11/30/10	☑	2048	8
13.69	NE							☐	22	
13.70	N					1/20/09	11/26/09	☐	1576	54
13.70	W						11/30/10	☑	2046	15
13.71	S	04/20/10	12/29/10	12/28/10	12/26/10			☐	91	
13.73	NW	09/20/06	01/08/11	01/06/11	07/12/10		04/14/07	☐	462	143
13.74	NE	04/22/06	01/19/11	01/15/11	01/15/11		01/09/07	☐	372	27

Centre point = I-75 & SR70

Counts: 2068 1072 938 10

- Corrected coordinates override, not replace, original coordinates
- Are treated like the originals ones (e.g. when downloading to GPSr)
- Are not overwritten on PQ load, and revert to original when deleted
- Often used for solved puzzles and final location of multis
- Corrected coordinates on GC.com handled different in PQ's and API's.

# Notes

**Notes**

GC1TD88 Hunter's Point

User Notes

From the schoolhouse side of the sign: 1933-1912 --> A=21  
From the 1890 Bratton Store side: 2006-1991 --> B=15

N 27 27. (978-A) W 82 40. (783-B) -->  
N 27 27. (978-21) W 82 40. (783-15) -->

N 27 27.957 W 82 40.768

Log Section

3 of 7 caches found with the kids this afternoon on an outing to Longboat Key. It's too bad we came here on a Sunday and they're only open Tue-Sat. I was especially struck by the sharp contrast between the historical buildings and the modern horse sculpture and tile fountain. The coords for the final were perfect and the cache was quickly found.

TNLNSL TFTC

Save Notes Logs Picture Log cache

Copy Delete Print Cancel Help

LogCache Macro LogACache.gsk

Counts: 2066 1072 938 10

For any personal notes or information you would like to keep. Especially useful for notes on how the final location was found for puzzle or multi caches.

Here you can compose your log for later posting online. After posting, the logging macro will normally clear this section.

Click to semi-automatically log the text in the Log Section using the specified macro

A double-click on this icon opens the Notes dialog

- Each waypoint can have a note consisting of user and log sections
- The notes support a combination plain text and HTML
- Spell checking is provided and pictures/graphics are supported
- Semi-automatic logging can be done using a specified macro

# Smart Names

GSAK 7.7.3.49 DataBase: Cache

File Search User Flags View Centre Point Waypoint Database GPS Macro Tools Help

GUS GME GMC FSG FCX ACS AL LL RG RAG FB CB VDB Test SUD SNC LPP LCR FbF

Lock First Code Search Column Name Search Split screen format Select a saved filter Database Locations Views

Wide View ToDo25 Cache I-75 & SR70 Smart

Code	Smart Name	Waypoint Name	Owner Name	Container	Diff	Turn	Miles	Brg	Placed	Last Log	Last Found	Found by me	ff	Usort	Logs
GC1R1RN	058TheScenic	#058 - The Scenic Route	Pfadfinder_FL	Micro	1.0	2.0	22.83	S	05/06/09	11/21/10	11/21/10				48
GC1VQKT	067SuperSecr	#067 - Super Secret Cache	Pfadfinder_FL	Other	4.0	2.0	2.79	NW	07/10/09	06/26/10	06/26/10				6
GC2A3VH	1945MarblePo	1945 Marble Points the Way	JRMan	Not chosen	1.5	1.5	24.43	NW	06/11/10	01/08/11	01/08/11				29
GC21AH6	19THParallel	The 19TH Parallel Cache	Grand Illusion Crew	Not chosen	3.5	2.5	12.66	NW	11/22/09	01/13/11	12/22/10				21
GC2MDWT	2010InReview	2010 in Review	Hawkhaven	Other	1.5	2.0	13.06	N	01/15/11	01/17/11	01/15/11				5
GC2JGZP	AfterAnAllNi	After An All Night Cache Run I Got The Munchies	Capt Biggins	Micro	3.0	1.5	13.04	S	11/20/10	01/17/11	01/17/11				31
GC1QVZY	AlisonKrauss	Alison Krauss Doesn't Live Here Anymore	large-marge	Micro	3.0	1.5	22.99	S	05/01/09	01/04/11	02/20/10				31
GC2A8VD	AllMotesMade	All Mote's Made It	randco	Micro	2.5	1.5	2.67	SW	06/14/10	11/21/10	11/10/10				14
GC2B29R	AmazingGeoca	The Amazing Geocaching Mystery Wheel	ishboo4343	Small	2.5	1.5	12.67	S	06/30/10	01/04/11	01/04/11				23
GC1ZE40	AnotherPiece	Another Piece of the Wall	speaker30	Regular	1.0	1.0	22.80	NW	10/03/09	01/15/11	01/15/11				163
GC261CV	AprilsCache	Aprils Cache	caseymcleod	Micro	1.0	1.0	14.54	S	04/02/10	01/04/11	08/12/10				49
GC295HG	Armstrong	Armstrong	Natrulyhi	Micro	2.5	2.0	13.38	NW	05/24/10	01/14/11	01/14/11				33
GC1Z3KZ	AZA9100	AZA 910.0	Hawkhaven	Other	2.0	1.5	10.90	NW	09/29/09	01/17/11	01/17/11				61
GC2BYE6	Bamboozled	Bamboozled	Aviator	Small	1.5	1.5	8.65	S	07/18/10	12/28/10	12/28/10				34
GC2G5K1	BartlettArea	Bartlett Area Geocache	chrisclementdotcom	Small	1.0	1.0	24.24	NW	10/03/10	01/16/11	01/16/11				17
GC1DJGR	BartlettPark	Bartlett Park	JRMan	Other	1.0	1.0	23.93	NW	06/25/08	01/16/11	01/16/11				97
GC21PAP	Bayou10thAnn	Bayou 10th Anniversary	campbayou.org	Small	2.0	1.0	16.02	N	12/03/09	01/18/11	01/18/11				17
GC262Q	BeachBummin	Beach bummin'	Wyldeberri & Dude	Micro	1.0	2.0	24.41	N	11/02/06	01/17/11	01/17/11				143
GC1DB7G	BeaudettePar	Beaudette Park	chief040102	Small	1.0	1.5	18.71	N	06/18/08	01/16/11	01/16/11				116
GC2JK4R	BeggarsSpot	Beggars's Spot	Argh! SuperToeSilver	Small	1.5	2.0	21.76	S	11/21/10	01/17/11	01/17/11				21

Subset: ToDo25 221 Shown (out of 3145 ) 7.0% Centre point = I-75 & SR70 Counts: 0 221 0 0

- Short form of waypoint name that's guaranteed unique
- Drops superfluous words, characters, and spaces
- More meaningful than GC code on GPSr
- Length set globally in Options or specifically with %smart=nn

All Symbols List

058TheScenic
067SuperSecr
1945MarblePo
19THParallel
2010InReview
AfterAnAllNi
<b>AlisonKrauss</b>
AllMotesMade
AllMotesMadePK

From Current Location  
S 21.14°

# Filters

The screenshot shows the GSAK 7.7.3.45 software interface. The main window displays a table of waypoints with columns for Code, Waypoint Name, Owner Name, Container, Diff, Terr, Miles, Brg, Placed, Changed, Last Found, DNF Date, Found by me, ftf, Usort, State, and County. A dropdown menu for filters is open, showing 'FGA Central' selected. Annotations include:

- Red arrows pointing to the 'Cancel Filter' and 'Set Filter' buttons in the toolbar.
- Callouts: 'Click to Cancel Filter', 'Click to set a Filter', 'Displays current Filter', 'Information about matching waypoints in Filter', and 'Found, Not Found, Archived, and Owned waypoint counts'.
- Bottom status bar: 'Subset: FGA Central', '24 Shown (out of 3139) 0.8%', 'Centre point = I-75 & SR70', and 'Counts: 7 17 12 8'.

Code	Waypoint Name	Owner Name	Container	Diff	Terr	Miles	Brg	Placed	Changed	Last Found	DNF Date	Found by me	ftf	Usort	State	County
GCRWHK	ALWAYS- CAGAN CROSSING	Bumblebeetoo	Small	1.0	1.0	79.22	NE	01/04/06	06/17/10	11/22/07		11/22/07		645	FL	Lake
GC13D95	A River Restored Earthcache	JerseyGirl & Bruno	Not chosen	1.5	2.0	81.12	E	06/04/07	12/31/10	08/29/10					FL	Osceola
GCWD1C	Celebrate Disney II	FocleSwab	Regular	1.5	1.0	81.91	NE	06/03/06	06/17/10	11/22/07		11/22/07		644	FL	Osceola
GCC142	Celebrate Disney II	Blue Man	Regular	1.0	1.0	82.38	NE	01/08/03	06/17/10	11/22/07		11/22/07		642	FL	Osceola
GC10J6G	Lake Louisa Earthcache	FocleSwab	Small	2.0	2.0	82.48	NE	01/24/07	06/17/10	11/22/07		11/22/07		643	FL	Osceola
GC15QNG	Lake Louisa Earthcache	Monetta55	Not chosen	1.0	1.0	82.80	NE	09/06/07	12/31/10	12/25/10		11/22/07		646	FL	Lake
GC22W23	BK-12 Back to the Boardwalk	BroKarl	Not chosen	1.0	1.0	84.42	NE	04/17/10	05/14/10	04/18/10					FL	Orange
GC2APV3	I'm here 2..... oh yeah, I'm here tool	pumpkinking27	Not chosen	1.0	1.0	84.56	NE	09/07/10	09/24/10	09/12/10					FL	Orange
GC2KDPA	Expedition from the Great White North	mrcanohead224	Other	1.5	1.5	86.37	NE	02/26/11	01/14/11						FL	Orange
GC25RPC	Blackbeards Treasure	4man2000	Small	2.0	1.0	87.53	NE	03/28/10	08/31/10	07/05/10		07/01/10		1821	FL	Orange
GC2GPQT	M&G #2 - Dine and Cache	familycachefinders	Other	1.0	1.0	88.09	NE	01/07/11	01/14/11	01/08/11					FL	Lake
GC2GR5X	Meet & Greet #1 - The Beginning	trippy1976	Not chosen	1.0	1.0	88.55	NE	11/18/10	12/10/10	11/19/10					FL	Lake
GC28BGD	Geocaching "101 1/2" and GSAK! Part Deux	the1acwright	Not chosen	1.0	1.0	90.72	NE	05/27/10	06/04/10	05/30/10					FL	Orange
GC20CPT	A bunch of Weir-dos in Florida	drگوی	Not chosen	2.5	1.5	91.71	NE	10/28/09	12/31/10	12/28/10					FL	Orange
GC1WZTQ	Number Of The Beast	jim32809	Not chosen	5.0	1.0	97.16	NE	08/08/09	10/12/10	10/03/10					FL	Orange
GC2ANJC	The 1st Annual West Side BBQ	Jarrodd88	Other	1.0	1.0	99.40	NE	08/01/10	09/24/10	08/08/10					FL	Orange
GC1N8YU	Cede's Night Time Adventure with StarDust25	MercedesL	Other	2.0	2.0	107.43	NE	05/15/10	06/18/10	06/11/10					FL	Lake
GC24ME7	The Anti G-Rail	sk8er1113	Small	2.5	2.0	107.56	NE	03/24/09	10/26/10	08/14/10					FL	Lake
GC1P4AT	The Anti G-Rail	sk8er1113	Small	2.5	2.0	107.56	NE	03/24/09	10/26/10	08/14/10					FL	Lake
GC26E09	Top Secret CITO event	thelanes	Regular	1.0	4.5	109.63	NE	05/22/10	06/04/10	05/22/10					FL	Seminole

- Multiple filters can be defined and selected from dropdown list
- Most filters can be specified using simple GUI controls
- More complex filters can be specified using SQLite WHERE clause
- Most operations in GSAK only apply to filtered waypoints

# Filters – General tab

**Set Filter** Centre point = I-75 & SR70

General | Dates | Other | Logs | Arc/Poly | Children | Attributes | Where

Select a saved filter: NONE Reverse filter

Cache name: 1 Contains

Full text search:  Where to Search:  Everywhere  Selected Items Only  
 Highlight HTML  Use RegEx  Logs  User Notes  Description

Distance: 2 Any distance

Found status:  Found  Not Found

Placed by: 3 Contains

Difficulty: 4 Less than or equal to 5.0

Terrain: 4 Less than or equal to 5.0

Available status:  Archived  Temporarily Unavailable  Available

User flag:  Set  Not set Has travel bug:  Yes  No

User data: 3 Contains

User data 2: 3 Contains

User data 3: 3 Contains

User data 4: 3 Contains

Has user notes:  Yes  No First to find:  Yes  No

Travel bug name: 1 Contains

Source: 5 Equal to

Owner Name: 3 Contains

Symbol name: 3 Contains

Go Reset All Reset Tab Save Delete Cancel Help

Entire filter can be reversed

1 Contains  
Does not contain  
RegEx  
Not(RegEx)

2 Any distance  
Less than or equal to  
Greater than or equal to  
Equal to  
Between (inclusive)

3 Contains  
Does not contain  
Equal to  
Not equal to  
Is empty  
Is not empty  
In list  
RegEx  
Not(RegEx)

4 Less than or equal to  
Greater than or equal to  
Equal to  
Between (inclusive)

5 Equal to  
Not equal to  
Is empty  
Is not empty  
In list



# Filters – Dates tab

## Common behavior for all fields

- 1
  - Not applicable → Date
  - On or before → Date
  - On or after → Date
  - Equal to → Date
  - Between (inclusive) → Date, Date
  - During → #, 2
  - Not during → #, 2
  - Compared to → 3, 4

- 2
  - Days
  - Weeks
  - Months
  - Years

- 3
  - Last found date
  - Placed date
  - Found by me date
  - DNF date
  - Created date
  - Last update GPX
  - Last update user
  - Last log date
  - Last change date

- 4
  - is the same → #, 2
  - is older → #, 2
  - is the same or older
  - is newer
  - is the same or newer
  - is within
  - is not within

**Set Filter** Centre point = I-75 & SR70

General | **Dates** | Other | Logs | Arc/Poly | Children | Attributes | Where

Last found date: Not applicable

Placed date: On or before 01/16/11

Date found by me: On or after 01/16/11

DNF date: Equal to 01/16/11

Date created: Between (inclusive) 01/16/11 01/16/11

Last update GPX: During The last [ ] Days

Last update user: Not During The last [ ] Weeks

Last log date: Compared to Last found date is the same

Last change date: Compared to Last found date is not within [ ] Months

is the same  
is older  
is the same or older  
is newer  
is the same or newer  
is within  
is not within

Go Reset All Reset Tab Save Delete Cancel Help

# Filters – Other tab

**Set Filter** Centre point = I-75 & SR70

General | Dates | **Other** | Logs | Arc/Poly | Children | Attributes | Where

**Cache types**

<input type="checkbox"/> Traditional	<input type="checkbox"/> Virtual	<input type="checkbox"/> Project APE
<input type="checkbox"/> Multi	<input type="checkbox"/> Web Cam	<input checked="" type="checkbox"/> <b>Mega Event</b>
<input type="checkbox"/> Letterbox	<input type="checkbox"/> Mystery	<input type="checkbox"/> Maze Exhibit
<input checked="" type="checkbox"/> CITO	<input type="checkbox"/> Benchmark	<input type="checkbox"/> Wherigo
<input checked="" type="checkbox"/> Event	<input type="checkbox"/> Other	<input type="checkbox"/> Waymark
<input type="checkbox"/> Locationless	<input type="checkbox"/> Earth	

Clear All  
Set All

**Bearing**

<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> NW	<input checked="" type="checkbox"/> NE	<input checked="" type="checkbox"/> E	Clear All
<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> SW	<input checked="" type="checkbox"/> SE	<input checked="" type="checkbox"/> W	Set All

**Container size**

<input checked="" type="checkbox"/> Micro	<input checked="" type="checkbox"/> Small	<input checked="" type="checkbox"/> Regular	Clear All
<input checked="" type="checkbox"/> Large	<input checked="" type="checkbox"/> Other	Set All	

**Degrees** 1 In range 90-270

**Geocaching Owner ID #** User So 2 Between (Inclusive) 100 200

**Country** 3 Contains

**State** 3 Contains

**County** 3 In list Manatee;Sarasota;Charlotte

**Locked**  Yes  No

**Corrected Coordinates**  Yes  No

**DNF (Did not find)**  Yes  No

**Watching this Cache**  Yes  No

**Code** 4 Contains

**My Found Count** 5 Greater than or equal to 2

**Has child waypoints**  Yes  No

**Elevation** 6 Between (Inclusive) 10 20 Feet

Go Reset All Reset Tab Save Delete Cancel Help

1 In range  
Not in range

2 Not applicable  
Less than or equal to  
Greater than or equal to  
Equal to  
Between (inclusive)

3 Contains  
Does not contain  
Equal to  
Not equal to  
Is empty  
Is not empty  
In list  
RegEx  
Not(RegEx)

4 Contains  
Does not contain  
Equal to  
Not equal to  
In list  
RegEx  
Not(RegEx)

5 Not applicable  
Less than or equal to  
Greater than or equal to  
Equal to

6 Any  
Less than or equal to  
Greater than or equal to  
Equal to  
Between (inclusive)

# Filters – Logs tab



- 1
  - Not applicable
  - On or before → Date
  - On or after → Date
  - Equal to → Date
  - Between (inclusive) → Date, Date
  - During → #, 2
  - Not during → #, 2
- 2
  - Days
  - Weeks
  - Months
  - Years
- 3
  - All
  - Last 1
  - ↓
  - Last 10
  - Last 15
  - Last 20
  - Last 30
  - Last 40
  - Last 50
  - Last 100
- 4
  - Include
  - Exclude
- 5
  - Any number > 0
  - Less than or equal to
  - Greater than or equal to
  - Equal to
  - Between (inclusive)

Set Filter
Centre point = I-75 & SR70
✕

General
Logs
Dates
Other
Arc/Poly
Children
Attributes
Where

**Log Date** 1 During The last 100 Years 2

Logs to search 3 All  Found  Not Found  Others

Include/Exclude 4 Include This will include/exclude the cache in your subset if the following conditions are met

**Required Count** 5 Greater than or equal 2

**Log Types:**  Select all (Uncheck to select individual log types)

<input type="checkbox"/> "Other"	<input type="checkbox"/> Publish Listing
<input type="checkbox"/> Announcement	<input type="checkbox"/> Retract Listing
<input type="checkbox"/> Archive	<input type="checkbox"/> Temporarily Disable Listing
<input checked="" type="checkbox"/> Attended	<input type="checkbox"/> Unarchive
<input type="checkbox"/> Didn't find it	<input type="checkbox"/> Update Coordinates
<input type="checkbox"/> Enable Listing	<input checked="" type="checkbox"/> Webcam Photo Taken
<input checked="" type="checkbox"/> Found it	<input type="checkbox"/> Will Attend
<input type="checkbox"/> Needs Archived	<input type="checkbox"/> Write note
<input type="checkbox"/> Needs Maintenance	
<input type="checkbox"/> Owner Maintenance	
<input type="checkbox"/> Post Reviewer Note	

**Logged by:**  (and log is by a certain person)

Exact match
  Allow wild card match
  Use RegEx
  Use gc.com logon ID#

Details Cache U Nuts

Go
 Reset All
 Reset Tab
 Save
 Delete
 Cancel
 Help

# Filters – Children tab



1

Contains  
Does not contain  
RegEx  
Not(RegEx)

2

Contains  
Does not contain  
Equal to  
Not equal to  
Is empty  
Is not empty  
In list  
RegEx  
Not(RegEx)

3

Final Location  
Parking Area  
Question to Answer  
Stages of a Multicache  
Trailhead  
Reference Point

4

Not applicable  
On or before → Date  
On or after → Date  
Equal to → Date  
Between (inclusive) → Date, Date  
During → #, 5  
Not during → #, 5

6

Contains  
Does not contain  
Is empty  
Is not empty  
RegEx  
Not(RegEx)

7

Not applicable  
Less than or equal to  
Greater than or equal to  
Equal to  
Between (inclusive)

Set Filter
Centre point = I-75 & SR70
✕

General
Dates
Other
Logs
Arc/Poly
Children
Attributes
Where

Code	1	Contains	
Type	2	Equal to	Parking Area <span style="float: right; text-align: center;">3</span>
Date	4	During	The last <input style="width: 20px;" type="text" value="2"/> <input style="width: 50px;" type="text" value="Weeks"/> <span style="float: right; text-align: center;">5</span>
Name	6	Contains	
Comments	6	Contains	
By User		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Count	7	Between (Inclusive)	<input style="width: 30px;" type="text" value="1"/> <input style="width: 30px;" type="text" value="100"/>

Child flag actions

Clear all child flags before setting filter

Set matching child flags

Go
 Reset All
 Reset Tab
 Save
 Delete
 Cancel
 Help

5

Days  
Weeks  
Months  
Years

# Filters – Attributes tab

Set Filter Centre point = I-75 & SR70

General | Dates | Other | Logs | Arc/Poly | Children | **Attributes** | Where

Caches that have:  ALL the following attributes  ANY of the following attributes

	Yes	No	None		Yes	No	None
Abandoned mines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Needs maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abandoned Structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Night Cache	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access or parking fee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Off-road vehicles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Available at all times	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Park and Grab	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Available during winter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Parking available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bicycles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Picnic tables nearby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Poison plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Campfires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Public restrooms nearby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camping available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Public transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cliff / falling rocks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Quads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Climbing gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recommended at night	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cross Country Skis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recommended for kids	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dangerous Animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scenic view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dangerous area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scuba gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Difficult climbing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Short hike (less than 1km)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dogs allowed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Significant hike	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drinking water nearby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Snowmobiles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Field Puzzle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Snowshoes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flashlight required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special Tool Required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Food Nearby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stealth required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel Nearby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stroller accessible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Horses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Takes less than an hour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Telephone nearby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Long Hike (+10km)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Thoms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lost And Found Tour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ticks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
May require swimming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Truck Driver/RV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
May require wading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UV Light Required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Medium hike (1km-10km)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Watch for livestock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motorcycles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wheelchair accessible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Wireless Beacon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Go Reset All Reset Tab Save Delete Cancel Help

# Filters – Where tab

## Boolean fields

DNF  
Found  
FTF  
HasCorrected  
HasTravelBug  
HasUserNote  
Lock  
LongHTM  
MacroFlag  
ShortHTM  
SmartOverride  
UserFlag  
Watch

## Numeric fields

Degrees  
Difficulty  
Distance  
Elevation  
FoundCount  
NumberOfLogs  
Terrain  
UserSort

## Date fields

Changed  
Created  
DNFDate  
FoundByMeDate  
LastFoundDate  
LastGPXDate  
LastLog  
LastUserDate  
PlacedDate  
UserNoteDate

Set Filter Centre point = I-75 & SR70

General | Dates | Other | Logs | Arc/Poly | Children | Attributes | **Where**

SQLite "Where" clause:

```
Found AND (FoundByMeDate < '2008-02-28' OR (CacheType IN ('C','E','Z') AND Difficulty <= 2.0))
```

String and Date field values should be enclosed in single quotes.

Dates should be in YYYY-MM-DD format.

SQLite syntax is described here:  
<http://www.sqlite.org/lang.html>

Go Reset All Reset Tab Save Delete Cancel Help

## String fields

Bearing  
CacheID  
CacheType  
Code  
Container  
Country  
County  
Hints  
Latitude  
LatOriginal  
LongDescription  
Longitude  
LonOriginal  
MacroSort  
Name  
OwnerId  
OwnerName  
PlacedBy  
Resolution  
ShortDescription  
SmartName  
Source  
State  
Status  
Symbol  
TravelBugs  
Url  
User2  
User3  
User4  
UserData  
UserNote

# Filters – Arc/Poly tab

**Set Filter** Centre point = I-75 & SR70

General | Dates | Other | Logs | **Arc/Poly** | Children | Attributes | Where

**Arc/Polygon points**

# Latitude, Longitude  
# Both the following formats are supported  
#  
# 32.7123, -101.2045  
# S32 25.921, E 115 46.050  
#  
# To include a waypoint from the database  
# use the format W,xxxxxx (xxxxxx = code)  
# or just flag them and click on the button  
# below this box.  
27.499440,-82.313347  
27.501800,-82.302876  
27.527149,-82.302361  
27.527073,-82.285967  
27.542828,-82.285624  
27.547013,-82.277985  
27.555841,-82.259059  
27.555764,-82.252407

The arc filter is designed to include waypoints based on their proximity to an arc, which is a series of connected line segments similar to a route or a track but without any associated data other than the coordinates.

In its simplest form the arc filter contains only two points (that is, a straight line). However, you must also specify a distance from the arc you want waypoints selected.

You can also tick the exclude box to only select waypoints that are outside this distance from the arc.

Filter Type  
 Arc/Line  Polygon  Points

0.5 Distance in Miles (5 = half a mile)

Exclude

Add user flagged

Get points from a file  
Select file  
 Replace  Append

GSAK polygon/arc drawing tool

Go Reset All Reset Tab Save Delete Cancel Help

Use Ctrl-V to paste the coord list copied from the drawing tool

Clicking here takes you to the web-based tool that will build a coord list ready for pasting into the box above

- Arc/Line
  - Path made of line segments
  - Selectable distance from lines
  - Useful for caches along a route
- Polygon
  - Closed path made of line segments
  - Area is defined by interior
  - Useful for caches within a park
- Points
  - Collection of distinct points
  - Selectable distance from points
  - Useful for caches near hwy exits

# GSAK Polygon/Arc Drawing Tool

**GSAK FORUM** GSAK Google Maps Polygon to CSV/GPX File Digitizer

Start Polygon Start Line Continue Drawing Clear Map Load Shape

Map Sat Ter Topo MyTopo

Output:  CSV  GPX  TSV

No Active Polygon

Click 'Start Polygon' then add points to create polygon

For compatibility with Arc/Poly Filter

Search for location (by geocoding and/or dragging)

Geocode

1. Click 'Start Polygon' and add nodes.
2. Click again on the last node to close polygon.
3. To edit once closed, mouse over and drag the nodes. Click on a node to delete it.
4. Copy and paste window above and save to a .csv or .gpx file

Paste a CSV or TSV file in the 'Load Shape' box and click 'Load Shape' to edit an existing shape.

# GSAK Polygon/Arc Drawing Tool (cont)

GSAK FORUM
GSAK Google Maps Polygon to CSV/GPX File Digitizer

Start Polygon
Start Line
Continue Drawing
Clear Map
Load Shape

Polygon 1
Output:  CSV  GPX  TSV

```

27.499440,-82.313347
27.501800,-82.302876
27.527149,-82.302361
27.527073,-82.285967
27.542828,-82.285709
27.555841,-82.269188
27.555764,-82.252407
27.505074,-82.253609
27.504846,-82.276011
27.516721,-82.275925
27.516645,-82.280302
27.520527,-82.280302
27.520603,-82.284937
27.518188,-82.285967
27.516188,-82.288113
27.512687,-82.288370
27.512611,-82.293177
27.511393,-82.293262
27.511316,-82.291803
27.509718,-82.291803
27.509642,-82.290516
27.503551,-82.290688
27.493426,-82.306652
27.495405,-82.308712
27.497385,-82.311544
27.499440,-82.313347
                
```

Last node is equal to first node for a closed polygon

Search for location (by geocoding and/or dragging)

Geocode

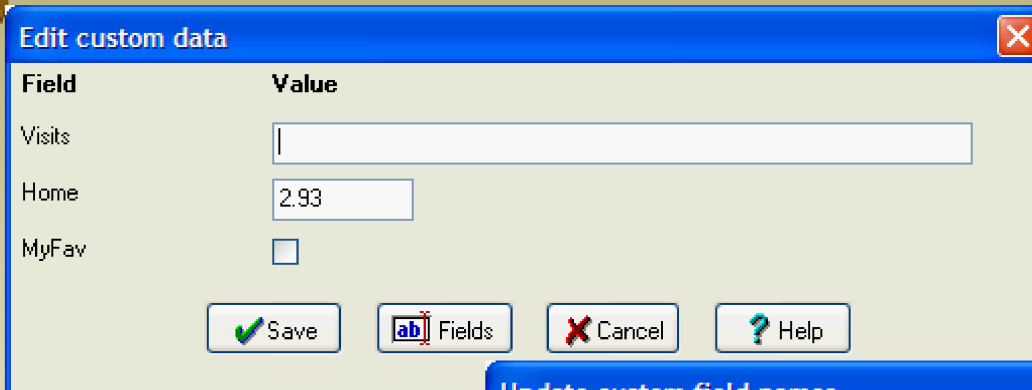
■ Polygon 1 (26 points)

1. Click 'Start Polygon' and add nodes.
2. Click again on the last node to close polygon.
3. To edit once closed, mouse over and drag the nodes. Click on a node to delete it.
4. Copy and paste window above and save to a .csv or .gpx file

Paste a CSV or TSV file in the 'Load Shape' box and click 'Load Shape' to edit an existing shape.

When you drag a Virtual node to a new position, it becomes a Real node and two new Virtual nodes appear on either side of it

# Customization – Custom Fields



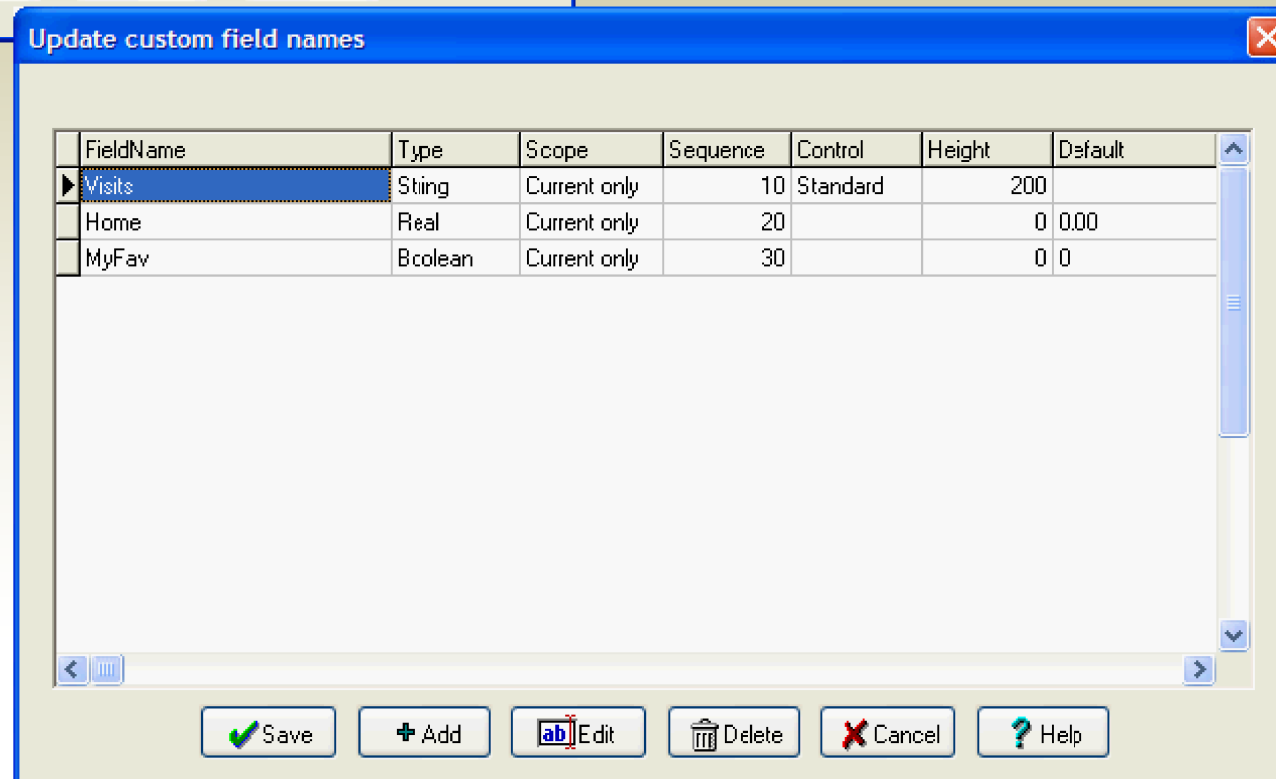
Field	Value
Visits	<input type="text"/>
Home	<input type="text" value="2.93"/>
MyFav	<input type="checkbox"/>

Save Fields Cancel Help

Arrive at this dialog by:

- Waypoint=>Custom Data
- clicking the "Custom" button in the Waypoint=>Edit dialog

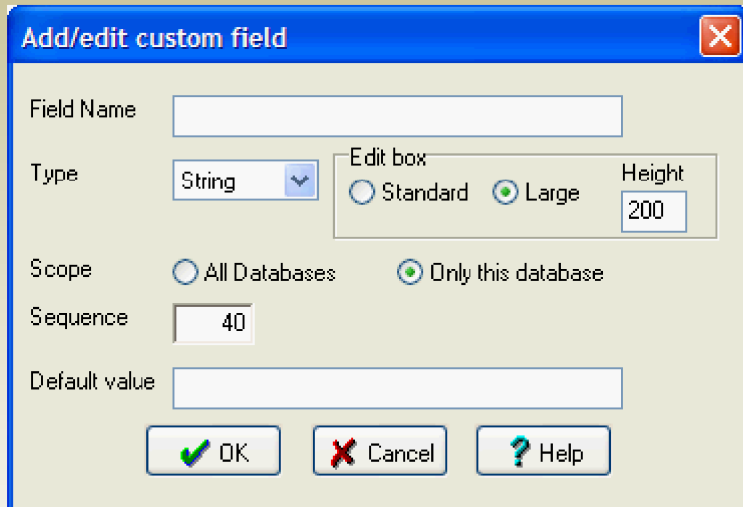
Arrive at this dialog by clicking the "Fields" button in the dialog above



FieldName	Type	Scope	Sequence	Control	Height	Default
Visits	Sting	Current only	10	Standard	200	
Home	Real	Current only	20		0	0.00
MyFav	Bcolean	Current only	30		0	0

Save Add Edit Delete Cancel Help

# Customization – Custom Fields (cont)



The screenshot shows a dialog box titled "Add/edit custom field" with a close button (X) in the top right corner. The dialog contains the following fields and options:

- Field Name:** An empty text input field.
- Type:** A dropdown menu currently set to "String".
- Edit box:** A sub-dialog with two radio buttons: "Standard" (unselected) and "Large" (selected). To the right of these is a "Height" input field containing the number "200".
- Scope:** Two radio buttons: "All Databases" (unselected) and "Only this database" (selected).
- Sequence:** A text input field containing the number "40".
- Default value:** An empty text input field.
- Buttons:** Three buttons at the bottom: "OK" (with a green checkmark icon), "Cancel" (with a red X icon), and "Help" (with a blue question mark icon).

- Field Name - Name used to reference this field
- Type – String, Integer, Real, Date, or Boolean.
- Standard String is one line, Large String is the specified height
- Scope - Designate the field to appear in all databases, or just the current one only (global vs local)
- Sequence - The order the field will display in dialogs
- Default - The default value when a new cache record is added to the database

# Publish Logs – Fetch

**Publish logs**

General options

- Automatically apply templates
- Show only unpublished

Macro1

Macro2

Fetch from Gpsr/File

- Copy field notes to GSAK user notes
- Copy field notes to GSAK log section
- Ignore logs before...
- Delete file after fetch
- Archive/backup file
- Time zone:

Code	Name	Seq	Log type	Date/Time	Zone	Published
------	------	-----	----------	-----------	------	-----------

**No unpublished logs found**

To populate the grid with log entries, right mouse click in this area and select "Fetch":

**From filter** - Make sure you have first set a filter of the caches you would like to publish logs for. This option will then populate the grid with these caches

**From GPSr** - This option will attempt to locate your GPSr and import the Geocache\_vists.txt or Cachenotes.txt file

**From file** - This option will prompt you for compatible with the standard Geocache\_vis

Fetch

- From GPSr
- From filter
- From file
- From current cache

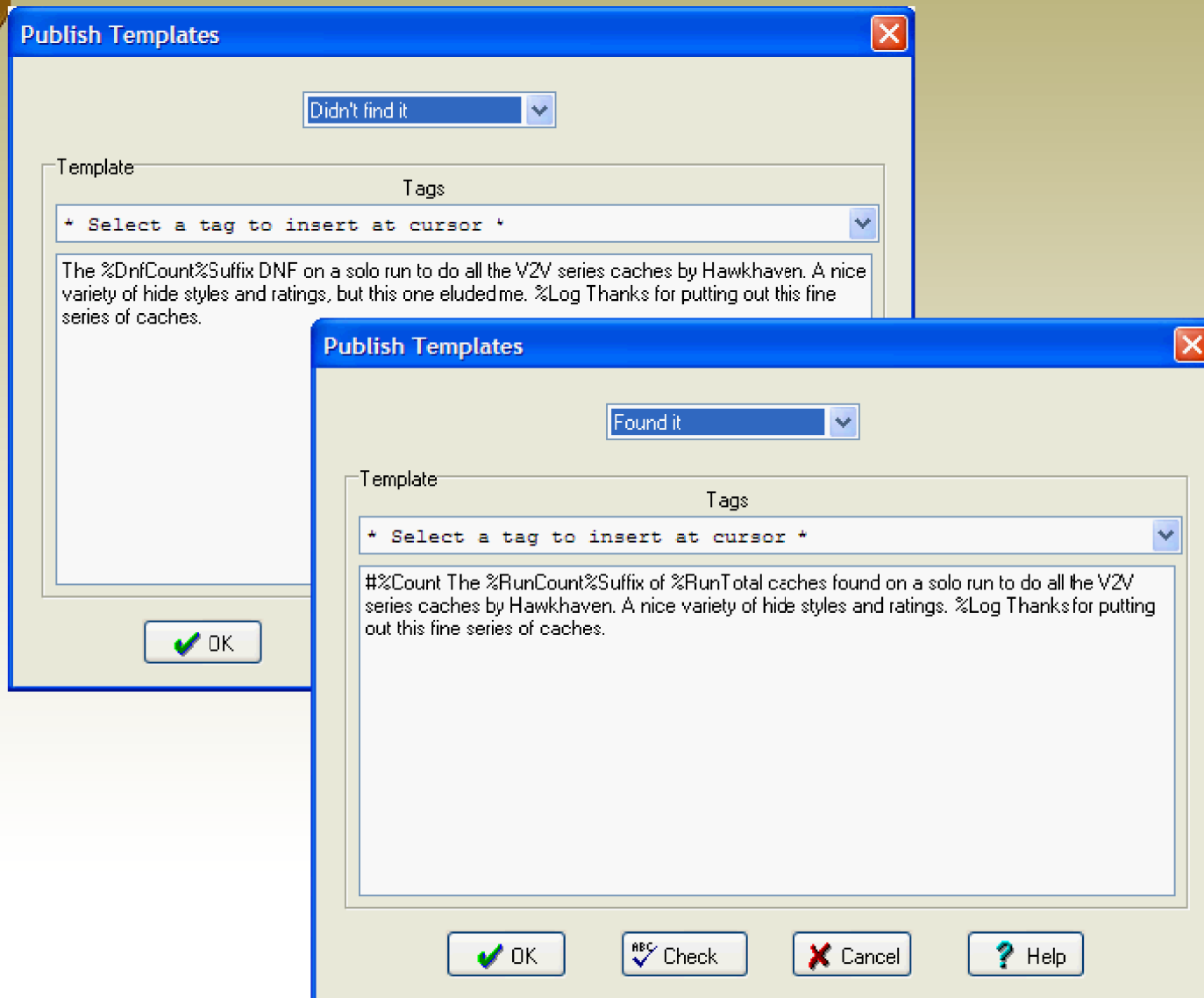
Buttons: Move, Move, Clone, Edit, Delete

Buttons: Publish all, Publish selected, Templates, Cancel, Help

Search:  Find next Find previous Highlight Match case

- Enter log text in the User Notes of each cache first before doing the fetch
- If you will be using Fetch From Filter, filter for caches to publish and sort in chronological order before the fetch
- If you will be using Templates, define them first before doing the fetch
- Make sure the Time Zone is set before doing the fetch

# Publish Logs – Templates



- Define a template to use for each log type required
- Various tags can be selected from the drop down list to provide commonly used dynamic values
- %Date and %Time allow for a number of different formats (see Help for info)
- %Count tag gets its starting value from GC.com
- %Log tag gets its text from the Log portion of the User Note of the cache (you can use this to include personalized notes for each log)

# Publish Logs – Populated Grid

**Publish logs**

General options

Automatically apply templates

Show only unpublished

Macro1

Macro2

Fetch from Gpsr/File

Copy field notes to GSAK user notes

Copy field notes to GSAK log section

Ignore logs before...

Delete file after fetch

Archive/backup file

Time zone: -05:00

Code	Name	Seq	Log type	Date/Time	Zone	Published
GC2W425	V2V Chapman Oak	4840	Found it	2011-11-18 19:00:00	-05:30	No
GC2W42J	V2V Osprey	4850	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5GJ	V2V Little Peeper	4860	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5H2	V2V One Weird Woodpecker	4870	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5HA	V2V Nicked	4880	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5J0	V2V Away From Home	4890	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5JJ	V2V Going Green	4900	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5J9	V2V Girls Rule Redux	4910	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5RE	V2V Good Neighbors	4920	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5RT	V2V View to the South	4930	Found it	2011-11-18 19:00:00	-05:30	No
GC2WR5W	V2V Live Oak	4940	Found it	2011-11-18 19:00:00	-05:30	No
GC2WW41	V2V Rover's Fav	4950	Found it	2011-11-18 19:00:00	-05:30	No
GC2WW44	V2V It's Really There	4960	Didn't find it	2011-11-18 19:00:00	-05:30	No
GC2WW3X	V2V Snowbird Stopover	4970	Found it	2011-11-18 19:00:00	-05:30	No
GC2W5T8	V2V 60s Dance	4980	Found it	2011-11-18 19:00:00	-05:30	No

Buttons: Move, Clone, Edit, Delete

Find next, Find previous, Highlight, Match case

Publish all, Publish selected, Templates, Cancel, Help

- Seq – Sequence number used only for ordering logs (can be changed to alter fetched order)
- Log type – shown if defined (finds on all events are converted to "Attended" and webcam finds are converted to "Webcam Photo Taken")
- Date/Time – are shown in UMT format
- You can remove caches from the list by selecting them and clicking on the Delete button
- Standard selection is supported

# Publish Logs – Edit

**Publish log edit**

Edit log |

**GC37R6V: Paparazzi by Lady Gaga**

Log type: Found it Sequence: 4900  Add favorite point

Log date/time: 01/21/12 7:00:00 PM

Field notes:

Tags: %Count: Cache Total

Log text | Preview

[%Count] The %RunCount%Suffix find with the kids on our way to the CacheApalooza 6 event. If you like, you can modify the text provided by the template in order to make the log specific to this cache. Thanks %OwnerName for the cache.

Check

Log text tab allows you to edit text and tags

**Publish log edit**

Edit log |

**GC37R6V: Paparazzi by Lady Gaga**

Log type: Found it Sequence: 4900  Add favorite point

Log date/time: 01/21/12 7:00:00 PM Time zone: -05:00

Field notes:

Log text | Preview

01/21/12

[2762] The 4th find out of 8 caches attempted with the kids on our way to the CacheApalooza 6 event. If you like, you can modify the text provided by the template in order to make the log specific to this cache. Thanks John&Jelene for the cache.

Preview tab replaces tags to see the result

# Publish Logs – Trackables

**Trackables**

**My Trackable Inventory**

Code	Name	Image	Action
<a href="#">TB1DBJA</a>	Gingerbread Geocoin		
<a href="#">TB4H0XF</a>	Gilded Celtic Peacock Geocoin		

Context menu options: Edit..., Drop..., Visit..., Visit all..., Remove action

Buttons: Find next, Find previous, Highlight

**Cache trackables for: GC37R6V Paparazzi by Lady Gaga**

Code	Name	Image	Action
<a href="#">TB414GE</a>	Radio Flyer Wagon		
<a href="#">TB4JQ0E</a>	Park Pal		

Context menu options: Edit..., Discover..., Retrieve..., Remove action

Buttons: Find next, Find previous, Highlight

Buttons: OK, Refresh, Cancel, Help

- Get here by clicking Trackables button on Publish Log Edit dialog
- Used to manage trackables when logging (retrieve, drop, etc.)
- Selecting an action prompts for tracking number and comments

# Add button to tool bar

Left click and drag icon to toolbar

Right click to get menu to change color and modify toolbar

Select menu

Select sub-menu

Select menu

Code	Waypoint Name	Miles	Diff	Tern	Container	Placed By	Placed	Last GFX	Last Found	Last Log	DNF Date	Found by me
GCHHG3	Meet The Sims	460.72	2.0	1.0	Micro	kokopeli	01/18/2010			04/22/2012		
GCY4AZ	Secret Fish and Swim	462.00	1.5	1.5	Regular	ChrissySkyking + Blaze	09/03/2011			03/09/2012		
GC1RRCA	Old 99 - Road Rubble	462.66	1.5	2.0	Regular	ChrissySkyking + Blaze	05/24/2011			03/09/2012		
GC3GFKE	A turn, A cache	463.30	1.5	1.5	Small	itshebd	04/04/2012	05/19/2012	05/06/2012	05/06/2012		
GCQ5G3	Take A Break	463.91	1.5	2.5	Regular	Desert(B)Rats	08/15/2005	05/19/2012	02/24/2012			
GCYYN1	A bend in the river	463.91								02/24/2012		
GC3A72M	HookRN's Travel Bug Purse	464.34								04/04/2012		
GC2YJWV	B...	464.58								04/04/2012		
GC2ERDA	La Home Top W Squa...	466.4								05/18/2012	05/18/2012	
GC1G9VQ	delta rail	468.34								04/20/2012	04/20/2012	
GC1G9VE	delta rd	469.11								05/11/2012		
GC2XN50	Top Of The World in Lakehe	470.46								05/11/2012	05/11/2012	
GC2K57B	Mastiff	470.48								05/11/2012	05/11/2012	
GC2WRJX	Lakehead Camo	470.60								05/11/2012	05/11/2012	
GC2WVAH	A PICNIC WITH B.B. & T2C	470.77								05/11/2012	05/11/2012	
GC2K57H	Saint Bernard	470.79								04/22/2012	04/22/2012	
GC2K57F	BIG DOG	470.81								04/22/2012	04/22/2012	
GC2K578	Big Cat	471.09								05/11/2012	05/11/2012	
GC2K577	Quetzal	471.31								05/11/2012	05/11/2012	
GC2K57J	Cat Fish	471.38								05/17/2012	05/17/2012	
GC2X86B	Neon Leon	471.64								04/28/2012	04/28/2012	
GC2K574	Strange Bird of Paradise	472.18								01/28/2012	01/28/2012	
GC2K571	Maleo	472.32	1.5	1.5	Micro	BIG BEAR.	12/07/2010	05/19/2012	04/08/2012	04/08/2012		
GC2V3BP	A PICNIC WITH B.B. & T2C	472.82	1.5	1.5	Micro	BIG BEAR.	04/26/2011	05/19/2012	04/06/2012	04/06/2012		
GC2TX39	Star Wars Series 33: Anakin	472.92	1.5	1.5	Micro	Cable Cache 1 & Pirate Boo	04/24/2011	05/19/2012	04/06/2012	04/06/2012		
GC2WRME	The Emerald City	473.00	1.5	1.5	Regular	Aladybug	05/22/2011	05/19/2012	09/07/2011	02/12/2012		
GC2TX2R	Star Wars Series 32: Jaina S	473.05	1.5	1.5	Micro	Cable Cache 1 & Pirate Boo	04/24/2011	05/19/2012	04/06/2012	04/06/2012		
GC2TX2M	Star Wars Series 31: Jacen S	473.26	1.5	1.5	Micro	Cable Cache 1 & Pirate Boo	04/24/2011	05/19/2012	04/06/2012	04/06/2012		
GC2TX27	Star Wars Series 30: Mara Ja	473.38	1.5	1.5	Micro	Cable Cache 1 & Pirate Boo	04/24/2011	05/19/2012	04/06/2012	04/06/2012		

Subset: None      110 Shown (all waypoints)      Centre point = Home      Counts: 0 110 0 0



# Macros – Overview

- Written in proprietary GSAK Macro Language
- Plain text file with default GSK extension
- Has full access to the SQLite Database
- Supports GUI Dialogs for user interaction
- Hundreds of macros submitted by users
- Most complex is over 20K lines of code
- Download from GSAK Forum Macro Library
- A macro can be run:
  - From the Macro Manager
  - By clicking on a user-defined Tool Button
  - By double-clicking on the file in Explorer



# Macros – Simple Code Example

```
# Select the nn closest caches to current

CENTER
SORT By="Distance" Sequence=A
INPUT Msg="nn closest caches to select" Default="200"
$Number = Val($Result)
GOTO Position=Top
MACROFLAG Type=Clear Range=All
MACROFLAG Type=Set Range=$Number
MFILTER If=$d_MacroFlag
```

# Macros – Macro Manager

Run Macro

Installed Macros | Other

[Online Macro Index](#) Search  Clear

Double click or press "Enter" on any macro to run it (right click to "edit") Macros listed: 235

Macro File	Description	Version	File Date	Last Run	Run Count	Author
CountWaypoints.gsk	Count Wapoints	1.2	06/21/09 10:53:19 PM	12/24/10 12:40:26 PM	13	Kai Team
ListLogs.gsk	<a href="#">Link to searchable master index of all uploaded macros</a>		08/03/08 6:35:40 PM	12/31/10 12:10:33 AM	230	Cache U Nuts
FindMyFavs.gsk	Find candidates for favorite caches	1.1	01/02/11 7:35:42 PM	12/31/10 5:08:00 PM	4	Kai Team
SyncUserData.gsk	Sync User Data Fields Between Two Databases	2.0.0	02/18/10 12:06:41 AM	01/01/11 12:41:30 AM	131	Cache U Nuts
BadgeGenBeta.gsk	Generates badges based on your geocaching accomplishments.	2.3.26	01/01/11 2:24:13 PM	01/02/11 2:56:11 PM	31	ky.m.guy
HTML_MyLogs.gsk	My Logs Split Screen macro	1.2	07/29/10 5:50:40 PM	01/05/11 10:21:39 AM	514	Lignumaqua
Elevation.gsk	Elevation technology test	1.7	01/05/11 10:34:07 PM	01/05/11 4:01:18 PM	2	Lignumaqua
PlacedPQ.gsk	Generate PQ placed by dates	2.3	10/26/10 7:48:07 PM	01/05/11 6:08:35 PM	3	Clyde, lignumaq
HTML_DualMap.gsk	Dual Map Split Screen macro	1.0	03/24/10 7:48:38 AM	01/06/11 12:27:06 AM	14	Lignumaqua
HTML_DiffTerr.gsk	Show Diff/Terr Array Split Screen macro	1.2	08/05/08 4:34:41 PM	01/06/11 9:16:45 AM	430	Lignumaqua / C
HTML_Database Stats.gsk	Display Database Stats in Split Screen	1.4	02/25/08 9:12:04 PM	01/06/11 9:17:08 AM	10	Kai Team & lignu
PuzzleBounds.gsk	Compute 2 mile Lat/Lon bounds for puzzle caches	1.0.0	09/23/09 9:23:17 AM	01/06/11 11:07:35 AM	43	Cache U Nuts
CacheCop.gsk	Select caches with Dnf's and Maintenance or Archive requests.	3.01	01/06/11 12:04:20 PM	01/06/11 12:04:30 PM	1	Wayne (Team R
Challenge.gsk	Summarize Challenges Cache Status (DeLorme, USGS quad,...)	2.20	01/06/11 2:35:57 PM	01/06/11 2:36:02 PM	8	Heiner Lieth (a.k
LocalCacher.gsk	LocalCacher.gsk: Get to Know your local cachers	3.0.7	01/04/11 6:56:19 PM	01/06/11 3:28:24 PM	7	Temble Ts
Google_Map_V3.gsk	Google Maps V3	1.2	01/04/11 9:04:01 AM	01/06/11 4:32:38 PM	7	Lignumaqua
CacheRoute.gsk	Creates an optimized driving route between Caches	0.9	05/29/10 12:24:27 AM	01/06/11 5:15:57 PM	6	Lignumaqua
HTML_Google Maps Nearest	Google Maps Nearest Caches Split-Screen macro	1.3	06/19/10 12:14:05 PM	01/06/11 5:15:58 PM	340	Lignumaqua
SyncNoteCorr.gsk	Sync User Note and Corrected Coordinates Between Databases	2.0.0	03/17/10 1:23:56 PM	01/08/11 9:00:23 AM	298	Cache U Nuts
HTML_Logs.gsk	Logs Split Screen macro	1.5	05/22/10 2:52:03 PM	01/08/11 10:48:04 AM	491	Lignumaqua
AddLogs.gsk	Add missing logs				1223	Kai Team & Lign
FindStatGen40Beta.gsk	Find Statistics Ge				44	Rutson & Lignur
myGMEv3.gsk	myGME - GSAK Google maps Export	3.00k_g	07/21/07 8:20:13 PM	01/11/11 1:31:02 PM	508	markp99
LogACache.gsk	Log cache online using data keyed into GSAK notes (log section)	1.52	12/04/10 2:58:54 PM	01/11/11 3:01:30 PM	198	Clyde - heavily nr
GenUploadStats.gsk	Generate and Upload stats to GC.com	1.58	06/16/10 9:26:52 AM	01/11/11 3:07:45 PM	99	Hulkman
FindStatGen41Beta.gsk	Find Statistics Generator (4.1)	4.1.04B	01/11/11 2:56:25 PM	01/11/11 3:07:45 PM	3	Rutson & Lignur
ListAttendance.gsk	List event cache attendance in alphabetical order	1.0	07/03/08 4:40:29 PM	01/11/11 4:34:20 PM	66	Cache U Nuts
HTML_WideView.gsk	Wide View Split Screen Viewer	3.6	02/03/10 11:41:53 PM	01/12/11 11:52:43 AM	95899	NashTech, Inc.

Runs the selected macro (same as double-click or Enter)

Checks for newer versions of installed macros and optionally installs the updates

Run Version? Install Uninstall Re-sync Cancel Help

# Macros – Install Macro

**GSAAK FORUM** **GSAAK Macro Library Index**

Macro Download Index Search:  (Click any column head to sort by that column) [RSS Feed](#)

Macro Name	Ver	Author	Date	Description
<a href="#">FizzyBrowser</a>	1.6.5	Cache U Nuts	2011-01-11	Fizzy Challenge Browser macro
<a href="#">FizzyChallenge</a>			2008-01-18	Filter on Diff/Terr combinations and Types you haven't found
<a href="#">FizzyChallenge33</a>			2008-09-18	Filter on Diff/Terr combinations and Types you haven't found
<a href="#">FizzyTest</a>	1.2	Kai Team	2008-02-03	Determine if challenge has been met

Time for query: 0.468 seconds

**Cache U Nuts** [Profile](#) **Posted:** January 10, 2011 12:41 pm

**FizzyBrowser - v1.6.5 01/10/2011**

# v1.6.5 01/10/11 - Updated GC15E8N (MA) cutoff date.

Attached File ( Number of downloads: 16 )

[FizzyBrowser.gsk](#) **Click**

1 User(s) are reading this topic (0 Guests and 0 Anonymous Users)

1 Members: [Cache U Nuts](#)

Pages: (2) 1 [2]

**Moderation Options**

**Opening FizzyBrowser.gsk**

You have chosen to open

**FizzyBrowser.gsk**  
which is a: GSAK Macro File  
from: http://gsak.net

What should Firefox do with this file?

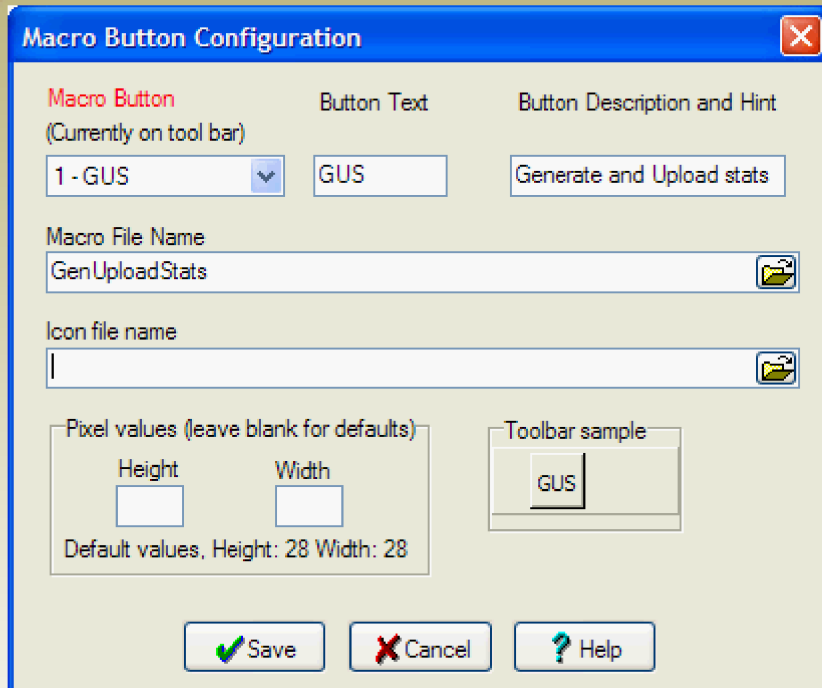
Open with: GSAK Geocaching program (default)

Save File

Do this automatically for files like this from now on.

**Click then install the macro when prompted**

# Customization – Macro Buttons

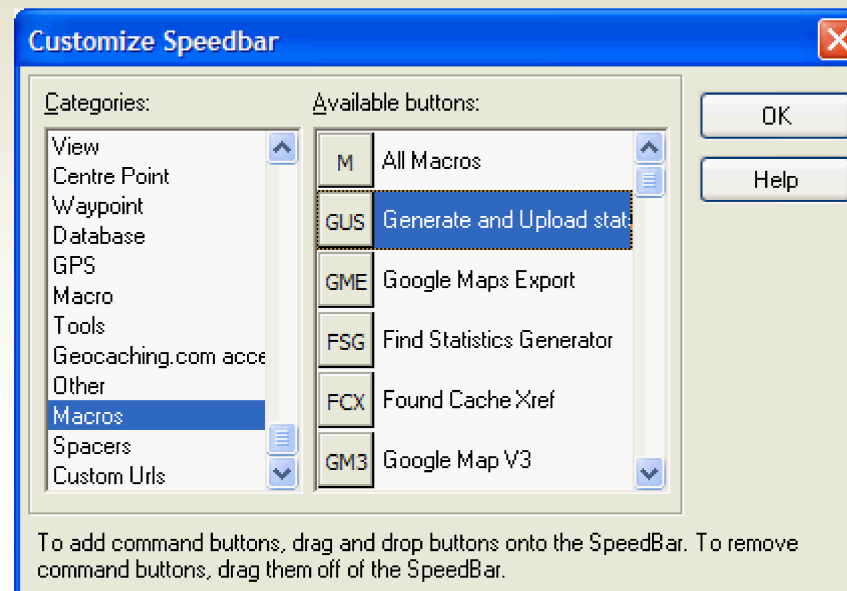


The screenshot shows the 'Macro Button Configuration' dialog box. It has a blue title bar with a close button. The main area is divided into several sections:

- Macro Button:** A dropdown menu showing '1 - GUS' with a downward arrow.
- Button Text:** A text input field containing 'GUS'.
- Button Description and Hint:** A text input field containing 'Generate and Upload stats'.
- Macro File Name:** A text input field containing 'GenUploadStats' with a file icon on the right.
- Icon file name:** An empty text input field with a file icon on the right.
- Pixel values (leave blank for defaults):** Two input fields for 'Height' and 'Width', both empty. Below them, it says 'Default values, Height: 28 Width: 28'.
- Toolbar sample:** A small rectangular area showing a button with the text 'GUS' on it.
- Buttons:** At the bottom, there are three buttons: 'Save' (with a green checkmark), 'Cancel' (with a red X), and 'Help' (with a question mark).

- Defines up to 20 macro buttons
- Button height and width will apply to all defined buttons

- Be sure to select “Macros” and *not* “Macro” category!
- Drag one of the available buttons to the Speedbar to add it
- Drag a button off the Speedbar to remove it



The screenshot shows the 'Customize Speedbar' dialog box. It has a blue title bar with a close button. The main area is divided into two columns:

- Categories:** A list of categories including View, Centre Point, Waypoint, Database, GPS, Macro, Tools, Geocaching.com acco, Other, Macros (highlighted in blue), Spacers, and Custom Urls.
- Available buttons:** A list of buttons including M All Macros, GUS Generate and Upload stat (highlighted in blue), GME Google Maps Export, FSG Find Statistics Generator, FCX Found Cache Xref, and GM3 Google Map V3.
- Buttons:** On the right side, there are two buttons: 'OK' and 'Help'.

At the bottom of the dialog, there is a note: 'To add command buttons, drag and drop buttons onto the SpeedBar. To remove command buttons, drag them off of the SpeedBar.'



# Macros – Some Very Useful Macros

## Split Screen

HTML_GoogleMapsNearestV3	Google map showing caches near currently selected cache
HTML_Google_Map_Elevation	Google map with elevation profile of interactively defined path
HTML_Logs	Lists expandable summary of logs for selected cache
HTML_MyLogs	Displays own logs only

## Map

MyGMEv3	Full-featured map output
Google_Map_V3	Google map high-performance map (handles large numbers of caches)
CacheRoute	Creates an optimized driving route between caches (limit 25)

## Challenge

Challenge	Maps progress for various DeLorme-style challenges
FizzyBrowser	Shows Found/Unfound candidates for various Fizzy-style challenges
LocalCacher	Lists progress for various Know Your Local Cacher-style challenges

## Statistics

FindStatGen	The ultimate Found Statistics generator
BadgeGen	Generates badges for various achievements



# Macros – Some Very Useful Macros (cont)

## FSG Plugins

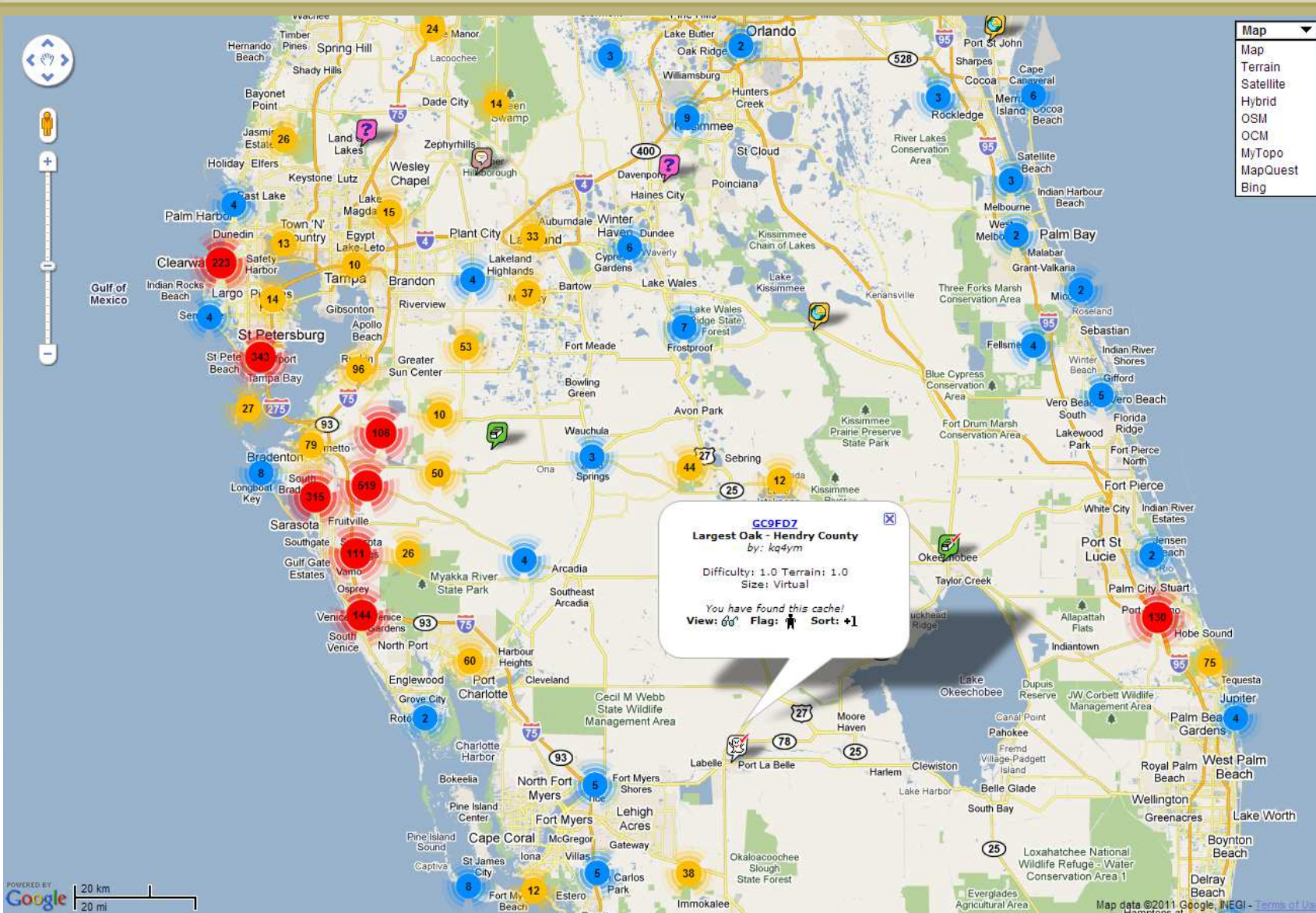
FSGPlugin_CacheMap	Display a map of found or placed caches
FSGPlugin_CachesIAwardedFavoritePoint	Display caches you awarded a favorite point
FSGPlugin_DTChartWithList	Display Diff/Terr chart with ability to show a list of caches
FSGPlugin_FirstCacheByCounty	Display the 1st cache you found in every county
FSGPlugin_ABC	Display alphabetical challenge progress
FSGPlugin_Oldest	Display 10 oldest caches found

## Misc

LogACache	Enter log online from User Note
CacheMateLogging	Cachemate to GSAK Logging
NuviExport	Basic Nuvi Export for 36xx series (and other models)
TomTom	Cache and Child Waypoint exporter for TomTom Navigators
CopyColumnToColumn	Copy data from one GSAK column to another column

See the release notes for FindStatGen in the macro library for all the options, maps, tabs, and how to include plugins. See the plugin release notes for all the options.

# Macros – Google\_Map\_V3.gsk



# Macros – CacheRoute.gsk

Fastest Route

Map Sat OSM

Calculate Roundtrip

Calculate One Way Trip

Left-click on map to add additional user 'Via' points.  
Maximum 24 points in total






Map data ©2010 Google, INEGI - Terms of Use

# Macros – CacheRoute.gsk (cont)

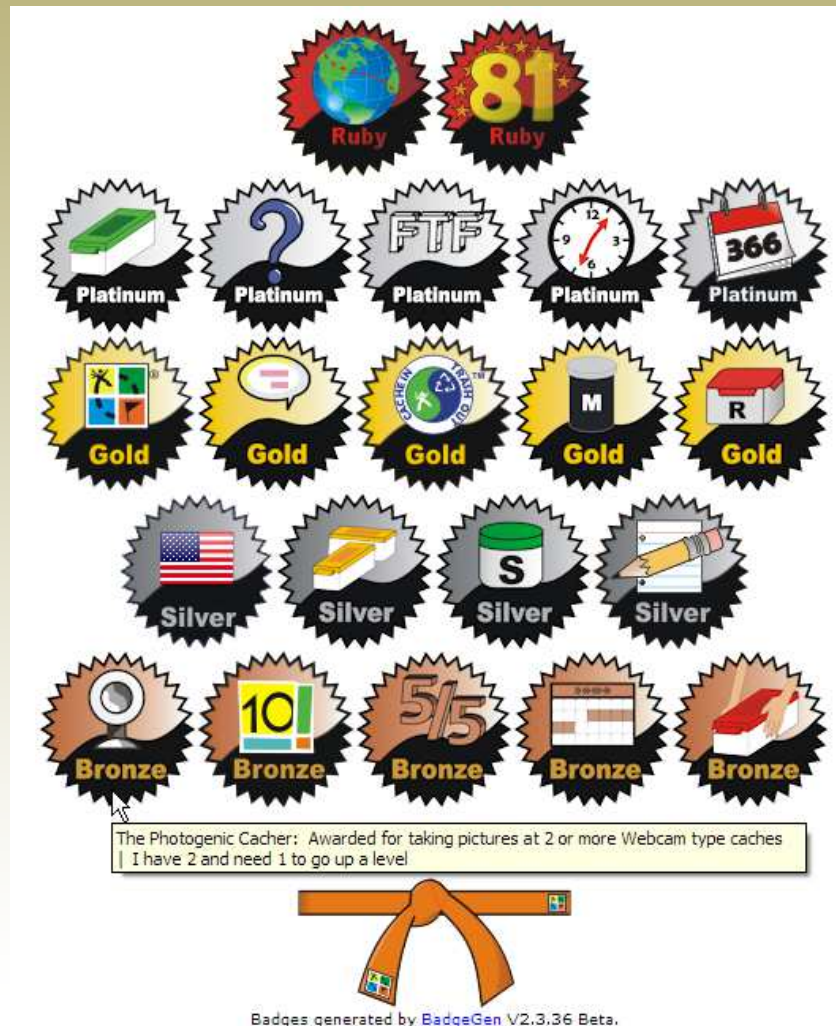
**Route Data**

One Way Trip duration: 54 min 18 sec, Trip length: 37 km - 23 miles

[Update User Sort](#)   [Update User Sort \(Start at 1\)](#)   [Expand Directions](#)

	<b>GC2HG77 - Where in the World?</b>
Head north on Brookwood Dr	0.3 mi
Continue onto Mississippi Ave	0.5 mi
Turn left at County Rd 775/Placida Rd Destination will be on the right	2.1 mi
	<b>GC2HPBB - Show Your Colors!</b> <i>(2.9 mi and 7 mins from last)</i>
Head south on County Rd 775/Placida Rd toward Eagle Preserve Dr	2.5 mi
	<b>GC24KY3 - More Questions?</b> <i>(2.5 mi and 5 mins from last)</i>
Head northwest on County Rd 775/Placida Rd toward Gasparilla Dr	2.1 mi
Turn right at Rotonda Blvd W	2.3 mi
Turn left at Parade Cir	0.4 mi
Turn right at Rotonda Blvd N Destination will be on the right	46 ft
	<b>GC241WC - Questions?</b> <i>(4.7 mi and 10 mins from last)</i>
Head south toward Rotonda Blvd N	0.3 mi
Turn right toward Parade Cir	0.2 mi
Take the 1st right onto Parade Cir Destination will be on the right	0.1 mi
	<b>GC23AR7 - This Way or That Way</b> <i>(0.5 mi and 3 mins from last)</i>

# Macros – BadgeGen.gsk



The Groundspeak Geocaching Logo is a registered trademark of [Groundspeak, Inc.](#) Used with permission.  
The logo and geocaching.com icons are used with Permission.

[More Information about the Badges](#) | [More Information about the Belt](#)

# Sending to GPS

**Send Waypoints to GPS** (Total = 34) ✕

GPS Symbols (Not all symbols are supported on all GPSs)

Traditional+Found = Custom 0 ; Found  
Traditional+Not Found = Custom 1 ; Traditional  
Traditional+Placed = Custom 12 ; Owned  
Traditional+Archived = Custom 18 ; Archived  
Multi+Found = Custom 0 ; Found  
Multi+Not Found = Custom 1 ; Traditional  
Multi+Placed = Custom 12 ; Owned  
Multi+Archived = Custom 18 ; Archived  
Letterbox+Found = Custom 0 ; Found  
Letterbox+Not Found = Custom 1 ; Traditional  
Letterbox+Placed = Custom 12 ; Owned

Use macro for symbol generation  
 Override with database symbol name (if not blank)

Change Symbols

Send options for GPSPMAP 60CSx  Use Defaults

Include additional child waypoints  
 Yes  And ONLY child waypoints (no parents)

Include...  
 All children  Only flagged  Only unflagged

Waypoint name  
You can build the waypoint name using tags (see help)

`%smart %children%smart %c_Prefix`

Maximum characters  
14

Maximum waypoints to send  
(Leave blank to send all) 980

Problem characters to remove from description

Waypoint description format (comments)  
`%drop2 %styp1 %con1 %dif1 %ter1 %bug=+%last4 %by`

Force all data sent to GPS to be Uppercase  Turn on debug mode

Settings  
... Last active

Save Delete

Send GPSr Setup Cancel Help

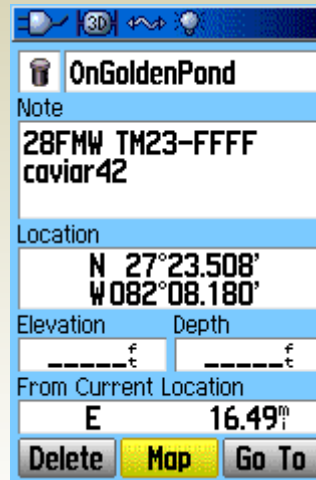
# Sending to GPS – Special Tags

%bug	Travel bug status
%by	Placed by
%c_Code	Child full code
%c_Code1	Child 1 character code
%c_Comment	Child comments
%c_Name	Child name
%c_Prefix	Child prefix
%c_ShortName	Child short name
%c_Type	Child type
%children	Child separator in format string
%code	Waypoint code (e.g. GCXXXX code)
%con	Container type
%con1	Container type (M,S,R,L,V,U)
%correct	Corrected coordinate status
%county	County name
%crypt	Encrypted hint
%datef	Date last found
%dif	Difficulty in full
%dif1	Difficulty (1,2,3,4,...,8,9)
%dif1a	Difficulty (1,A,2,B,...,D,5)
%drop2	Like %code without first 2 chars
%hint	Decoded hint
%last4	Last 4 found/not found logs
%mtag	Macro tag optimized for speed
%name	Cache name
%ownerName	Cache owner name
%smart	GSAK "unique smart name"
%shortname	Like %smart but not unique
%ter	Terrain in full
%ter1	Terrain (1,2,3,4,...,8,9)
%ter1a	Terrain (1,A,2,B,...,D,5)
%typ	Cache type
%typ1	Cache type (T,M,B,C,E,V,W,R,I,U)
%user	User data
%user2	User data 2
%UserNote	User note (without log section)
%UserSort	User sort

**Example using the following waypoint format strings –**

**Name:** %smart %children%smart%c\_Prefix

**Description:** %drop2 %typ1%con1%dif1%ter1%bug=+-%last4 %by



%smart	OnGoldenPond
%drop2	28FMW
%typ1	T (Traditional)
%con1	M (Micro)
%dif1	2 (D=1.5)
%ter1	3 (T=2.0)
%bug=+-	- (noTravel Bug)
%last4	FFFF (all Finds)
%by	caviar42

# Sending to GPS – Macro Symbol Generation

```
# Symbol Generation Macro for the Garmin GPSmap 60SCx

BEGINCASE
CASE IsOwner()
  $_Symbol = "Custom 12"    # Owned
CASE $d_Found
  $_Symbol = "Custom 0"    # Found
CASE $d_Archived OR $d_TempDisabled
  $_Symbol = "Custom 18"   # Archived / Temp Disabled
CASE $d_DNF
  $_Symbol = "Custom 6"    # Not Found (DNF)
CASE $d_CacheType = "T" AND $d_Container = "Micro"
  $_Symbol = "Custom 4"    # Traditional Micro
CASE $d_CacheType = "T"
  $_Symbol = "Custom 1"    # Traditional
CASE $d_CacheType = "M" AND $d_HasCorrected
  $_Symbol = "Custom 10"   # Multi with corrected coords
CASE $d_CacheType = "M"
  $_Symbol = "Custom 2"    # Multi
CASE $d_CacheType = "U" AND $d_HasCorrected
  $_Symbol = "Custom 10"   # Unknown/Mystery with corrected coords
CASE $d_CacheType = "U"
  $_Symbol = "Custom 3"    # Unknown/Mystery
CASE $d_CacheType = "V"
  $_Symbol = "Custom 7"    # Virtual
CASE $d_CacheType = "W"
  $_Symbol = "Custom 13"   # Webcam
CASE $d_CacheType = "B"
  $_Symbol = "Custom 8"    # Letterbox
CASE $d_CacheType = "E" OR $d_CacheType = "Z" OR $d_CacheType = "X"
  $_Symbol = "Custom 14"   # Event / Mega Event / GPS Adventures Maze
CASE $d_CacheType = "R"
  $_Symbol = "Custom 9"    # Earth
CASE $d_CacheType = "C"
  $_Symbol = "Custom 15"   # CITO
      :
      :
```


Using a macro for symbol generation provides the most control over how symbols are assigned since it can take into account more than just cache type and status.

Custom 0 to 5:  
Custom 6 to 11:  
Custom 12 to 17:  
Custom 18 to 23:





# Getting Help

- Help File
  - Accessed from  button on toolbar, or help menu
  - Thoroughly documented and well organized
  - Many common problems are covered in the GSAK FAQ
  - Most screen graphics can be clicked on to get specific help
- Dialog Help Buttons
  - Gives you context-sensitive help
- GSAK Forum (<http://gsak.net/board>)
  - Knowledgeable, and patient with new users (no flaming)
  - Getting Started – Read Me First!
- Read the Tutorials in the GSAK Forum
  - GSAK 101 – Getting Started
  - GSAK 201 – Customizing GSAK
  - GSAK 302 – Macros



- Title Slide “GSAK – Introduction”
- What is GSAK?
- Offline vs. Online Database
- Installing GSAK
- Installing GSAK – Latest Patch
- Installing GSAK – Auto Patch
- Grid – Auto Update
- GC.com Member ID and GPX Version
- Initial Configuration – General
- Initial Configuration – Locations
- Update User Information
- Initial Configuration – Abbreviations
- Screen Elements
- Architecture and Work-flow
- Pocket Query Types
- Load Pocket Query
- Pocket Query Load Summary
- Download Pocket Queries – Basic Tab
- Download Pocket Queries – Advanced Tab
- Get Geocaches – Basic Tab
- Get Geocaches – Google Map Tool
- Get Geocaches – Advanced Tab
- Main Window
- Updating Existing Caches in Database
- Favorite Points
- Add to Bookmark List
- Center Point
- Sorting
- Child (Additional) Waypoints
- Corrected Coordinates
- Notes
- Key Concepts
- Databases
- Creating a New Database
- Views
- Views – Selecting Columns (Fields)
- Views – Supported Columns (Fields)
- Smart Names
- Filters
- Filters – General tab
- Filters – Dates tab
- Filters – Other tab
- Filters – Logs tab
- Filters – Children tab
- Filters – Attributes tab
- Filters – Where tab
- Filters – Arc/Poly tab
- GSAK Polygon/Arc Drawing Tool
- GSAK Polygon/Arc Drawing Tool (cont)
- Sending to GPS
- Sending to GPS – Special Tags
- Sending to GPS – Macro Symbol Generation
- Getting Help



# Open Discussion

Can I ...

How do I ...

I'm having problems with ...

What's the best way to ...

Why can't I ...