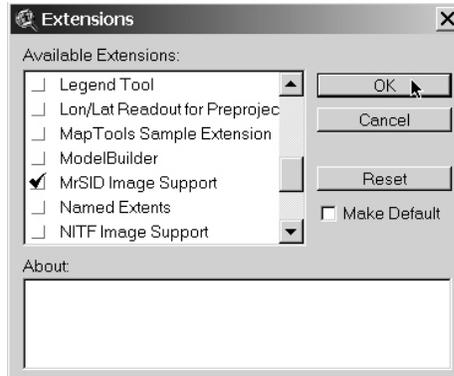


## Objectives

- Add Themes to View
- Download Waypoints and Tracks with the DNR Garmin extension in ArcView
- Basic Waypoint and Track table edit with DNR Garmin
- Save Waypoints and Tracks as ArcView Shapefiles

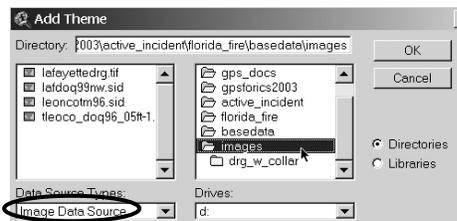
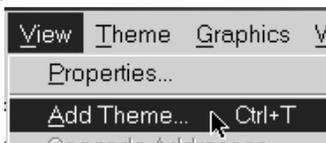
## Add Themes to View

- We can add an image theme (background) to the view
- Load MrSID Extension
  - Select File | Extensions...
  - Scroll to Select  
“MrSID Image Support”
  - Press OK



## Add Themes to the View

- Add Image Themes from Incident Folder
  - Add Theme Button  or...
  - View | Add Theme
  - Browse to Image Data  
(Instructor’s Directions)
  - Change Data Source Type to  
Image Data Source
  - Add theme(s)

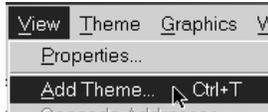


## Add Themes to the View

- Add Vector (feature) Themes from Incident Folder

– Add Theme Button  or...

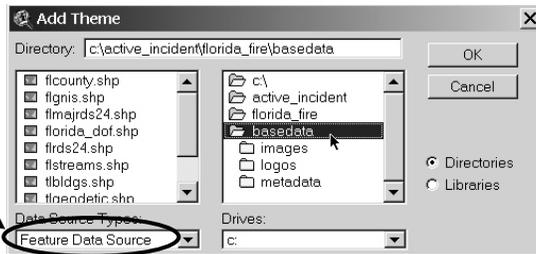
– View | Add Theme



– Browse to Image Data (Instructor's Directions)

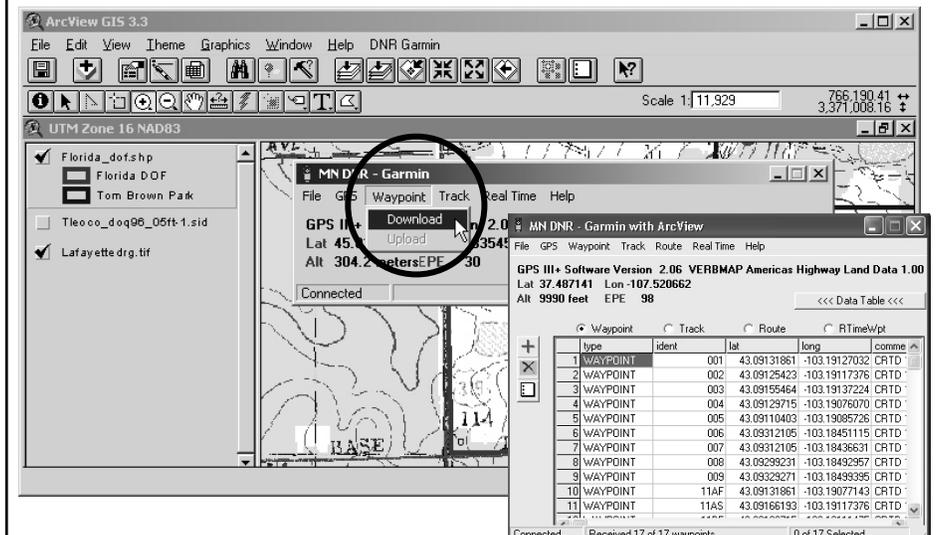
– Change Data Source Type to Feature Data Source

– Add theme(s)



## Download Waypoints into ArcView

- Select Waypoint | Download



**Review!** **Table Edit Techniques**

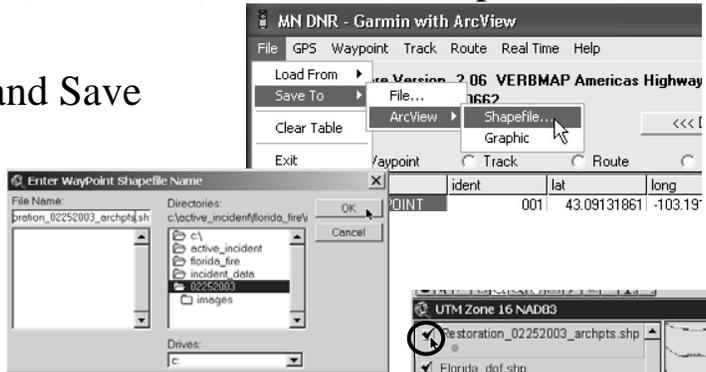
- Edit Waypoint Data
  - Delete 2nd Archeological Site (Remove Row two)
    - Highlight row
    - Click  to delete selected row
  - Delete extraneous column data
    - Click  to delete selected columns

	type	ident	lat	long	comment	display	syrr
1	WAYPOINT	1	30.43489695	-84.22258624	-03 16:45:20	3	
2	WAYPOINT	2	30.43489695	-84.21938905	-03 16:45:20	3	
3	WAYPOINT	3	30.43708563	-84.22025808	-03 16:45:20	3	
4	WAYPOINT	4	30.43688251	-84.22135779	-03 16:45:20	3	

	altitude	depth	waypoint_cl	sub_class	attrib	link	st
1	0	0	0			0	
2	0	0	0			0	
3	0	0	0			0	

**Save as ArcView Shapefile**

- Select File | Save To | ArcView | Shapefile
- Rename and Save Shapefile
- Shapefile will be added to View
- Turn on in View



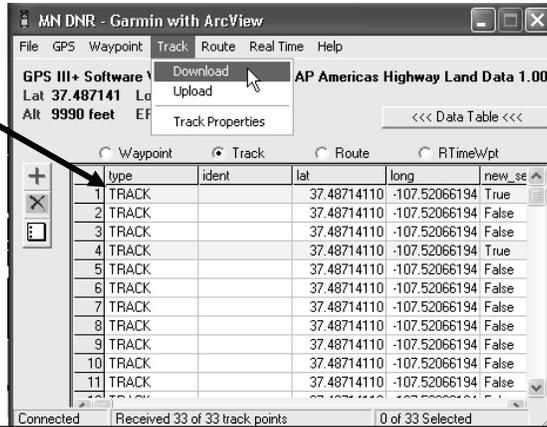
The screenshot shows the ArcView interface with the 'Save To' menu open, highlighting the 'Shapefile...' option. Below it, a file explorer window is open, showing the directory structure for saving the shapefile. The file name is 'restoration\_02252003\_archpts.shp'.

## Download Track into ArcView

- Select Tracks | Download

What's with the blue?

This is an indication of a "new" track. This signifies a break in sequence of track point data collection based on date and/or time.



## Download Track into ArcView

- Delete Track Data
  - Delete extraneous columns
    - Highlight column

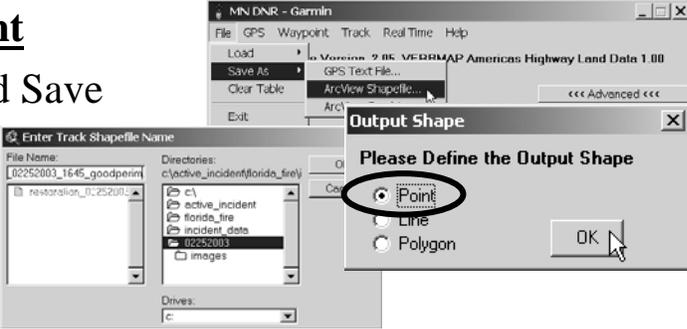
**Review!**

time	display	color	altitude	depth
1	02/01-19:32:48	False	0	0
2	02/01-19:32:54	False	0	0
3	02/01-19:32:59	False	0	0
4	02/01-19:33:00	False	0	0
5	02/01-19:33:01	False	0	0
6	02/01-19:33:02	False	0	0
7	02/01-19:33:03	False	0	0
8	02/01-19:33:04	False	0	0
9	02/01-19:33:05	False	0	0
10	02/01-19:33:06	False	0	0
11	02/01-19:33:07	False	0	0

- Click  to delete selected columns

## Review! Save as ArcView Shapefile

- Select File | Save To | ArcView | Shapefile
- Output **Point**
- Rename and Save Shapefile



The screenshot shows the 'MN DNR - Garmin' application window. The 'File' menu is open, showing 'Save As' with a sub-menu containing 'ArcView Shapefile...'. Below this, the 'Enter Track Shapefile Name' dialog box is open, showing a file name field and a directory list. To the right, the 'Output Shape' dialog box is open, with 'Point' selected under 'Please Define the Output Shape'.

- Shapefile will be added to Themes
- Turn on in View

## Track Management

- Exit the DNR Garmin Extension
  - File | Exit



The screenshot shows the 'MN DNR - Garmin' application window with the 'File' menu open. The 'Exit' option at the bottom of the menu is circled in black.

## Edit Point Shapefile

- Turn on Track **Point** Shapefile (turn off others)

- Make Point Theme Active (raised)



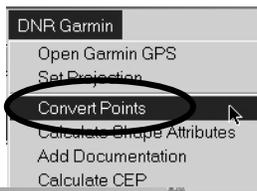
- Use **Select tool** and select points that make up the “polygon”



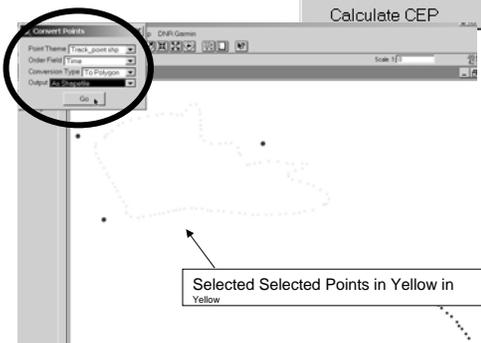
## Edit Point Shapefile

- In the DNR Garmin drop down menu choose:

DNR Garmin | Convert Points

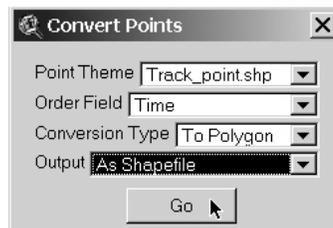


- Convert Points window pops open



## Edit Point Shapefile

- Order Field | **Time**
- Conversion Type | **To Polygon**
- Output | **As Shapefile**

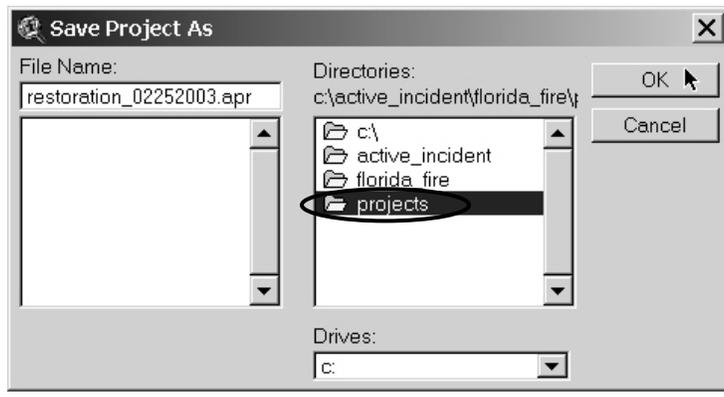


Result: Polygon created from selected points



## Save ArcView Project

- File | Save Project As...
  - Browse to Projects folder
  - Name with incident name and date
  - OK



## Summary

- Added Themes to View
- Downloaded Waypoints and Tracks with the DNR Garmin extension in ArcView
- Edited the Waypoint and Track tables with DNR Garmin
- Saved Waypoints as ArcView Point Shapefile and Track as Point Shapefile
- Converted Track Points Shapefile to Polygon Shapefiles