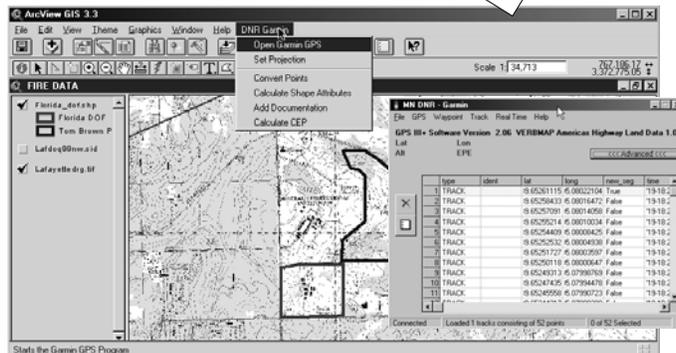
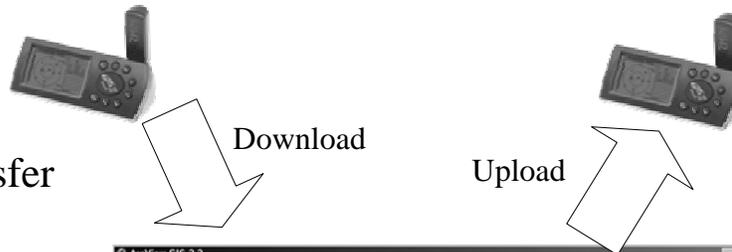


GPS for Fire Management - 2004

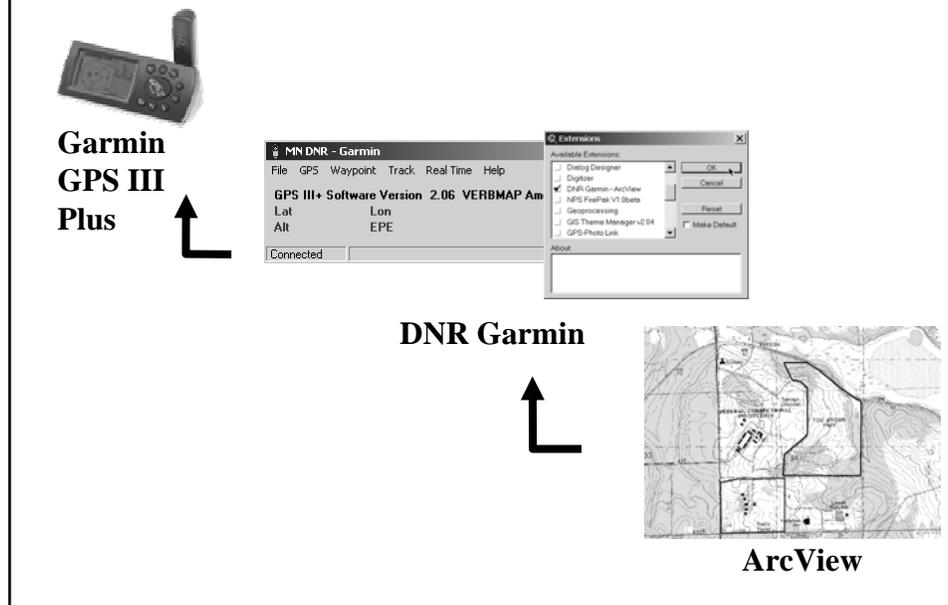
Navigation 3

Review of DNR Garmin Uses

- Data Transfer



Uploading ArcView Data with DNR Garmin



Objectives

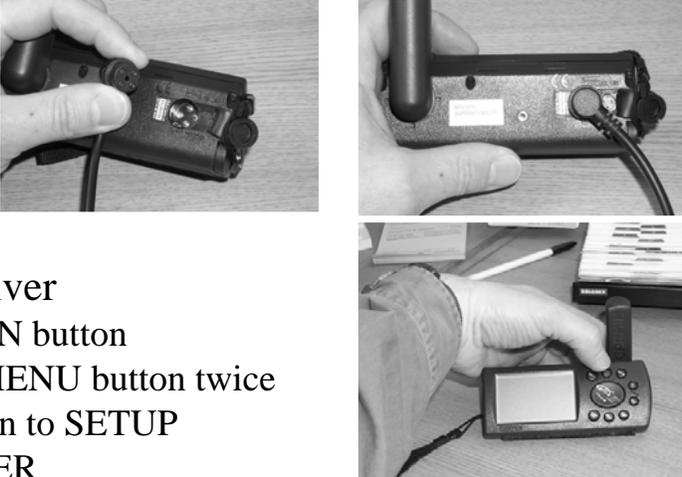
- Open ArcView project (*.apr) that contains a polygon and point shapefile
- Use DNR Garmin to upload points to Garmin GPS III Plus receiver as waypoints
- Use DNR Garmin to upload polygon to Garmin GPS III Plus receiver as tracks
- Confirm upload to Garmin GPS III Plus receiver

*Instructor will provide name of project

Review!

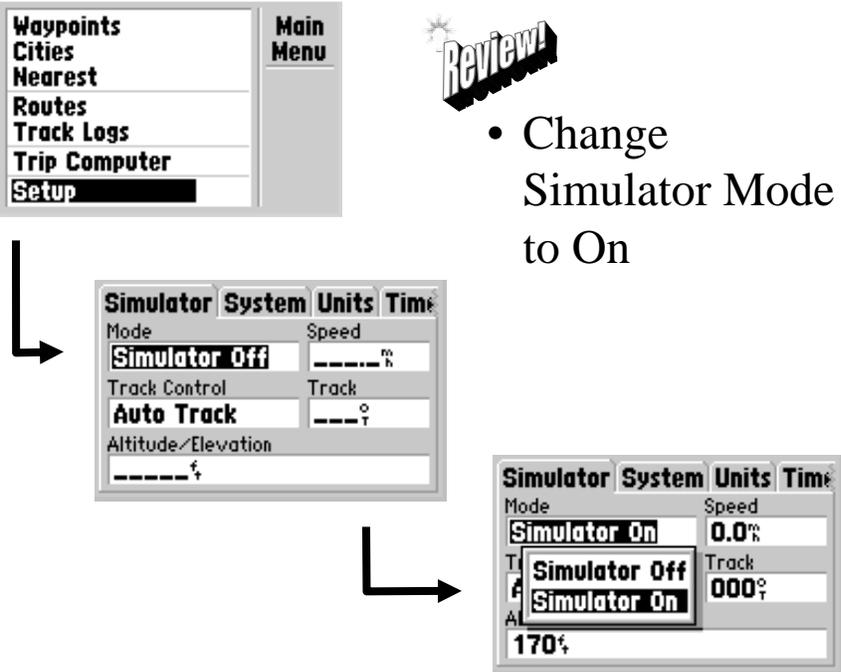
Connect Receiver

- Connect GPS unit to PC
- Start Receiver
 - Push the ON button
 - Push the MENU button twice
 - Scroll down to SETUP
 - Push ENTER
 - Scroll left to the SIMULATOR tab



Review!

- Change Simulator Mode to On



The screenshots show the following menu sequence:

- Main Menu:** Waypoints, Cities, Nearest, Routes, Track Logs, Trip Computer, **Setup**.
- Setup Menu:** Simulator System Units Time, Mode: **Simulator Off**, Speed: --- m/h, Track Control: **Auto Track**, Track: --- °, Altitude/Elevation: --- f.
- Simulator Settings:** Mode: **Simulator On**, Speed: **0.0%**, Track: **000°**, Altitude/Elevation: **170 f**.

Review!

- Check Interface Protocol
- Scroll up to Simulator Tab
- Scroll right to the INTERFACE tab

The image shows two screenshots of a software interface. The first screenshot shows the 'Simulator' tab with the following settings: Mode: Simulator On, Speed: 0.0%, Track Control: Auto Track, Track: 000%, and Altitude/Elevation: 170%. An arrow points from this tab to the second screenshot, which shows the 'Interface' tab with the following settings: Format: GARMIN, Transfer Mode: Host, and Status: Ready.

Review!

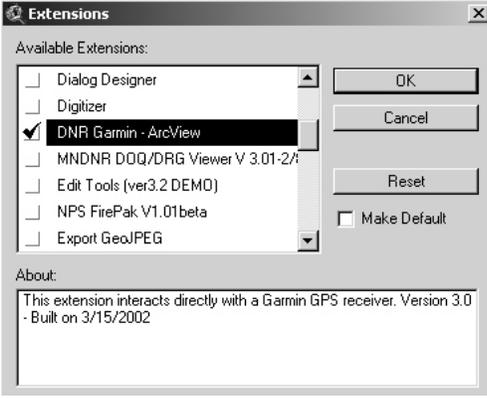
Open ArcView Project

- Start ArcView
 - Start Button | Programs | ESRI | ArcView3 | ArcView
- Open an Arc View project
 - Select File | Open Project...
 - Follow Instructors Guidelines for ArcView Project location and name

The image shows the ArcView GIS 3.2a application window. The 'Open Project' dialog box is open, showing a file list with the following items: active_incident, florida_fire (selected), incident_data, products, projects, and working. The 'List Files of Type' is set to 'Project (*.apr)'. The 'Drives' dropdown is set to 'c:'.

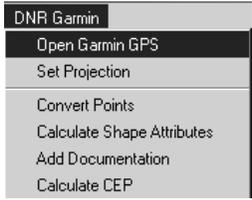
Review! Turn on DNR Garmin

- Load DNR Extension
 - Select File | Extensions...
 - Scroll to Select
“DNR Garmin - ArcView”
 - Press OK

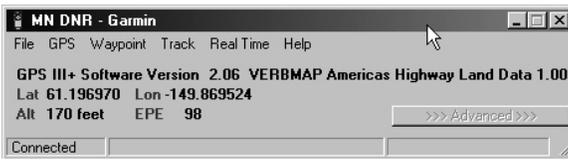


Review! Open Garmin GPS

- Open DNR Garmin Select DNR Garmin | Open Garmin GPS



- If GPS is turned on you will see this
- Congratulations!





Troubleshooting Tips

- Check the following if connection cannot be made
 - Cable is securely attached
 - Interface on receiver is set to Garmin
- VB Menu Option GPS
 - These options set up communication protocols with GPS
 - Select GPS | Assign Port and Select other COM port*
 - Select GPS | Open Port to establish connection

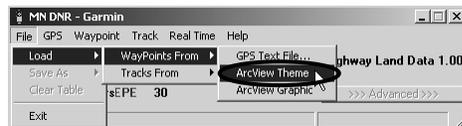
* ActiveSync or other peripherals may be using same port

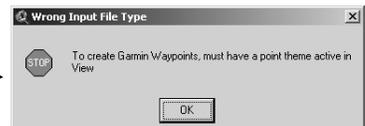


Waypoint Upload

- Make Point Theme Active


- File | Load | Waypoints From | ArcView Theme


- If the point theme isn't active you will see this message

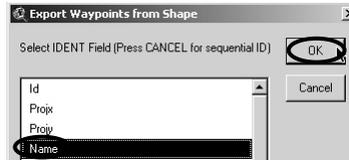


Waypoint Upload

- Select **Cancel** for sequential ID name (e.g., 001, 002, etc.)



- You *could* select a field from the shapefile to create a descriptive waypoint name in the Garmin (e.g., Name)



- The waypoint name is limited to 6 characters - so this is what you would see in the Waypoints menu

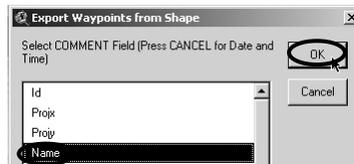


Waypoint Upload

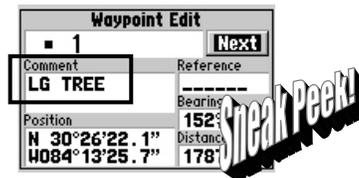
- Select **Cancel** to use Date and Time for COMMENT field



- You *could* select a field from the shapefile to create a descriptive Comment for each waypoint in the Garmin (e.g., Name)

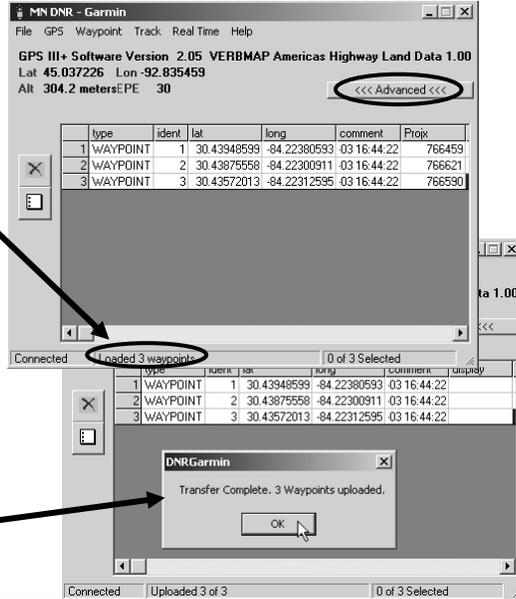


- The Comment box holds up to 16 characters



Waypoint Upload

- <<<<Advanced>>>>
- Loaded waypoints message displayed
- Waypoint | Upload
- Transfer Complete



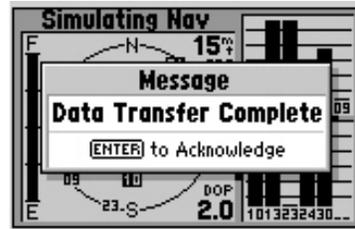
Waypoint Upload

WARNING!

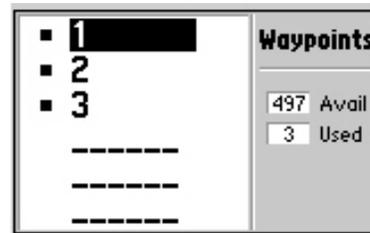
- When you upload waypoints, any waypoint in the GPS that has the same ID name as the uploading waypoint will be overwritten.
- Although this is not an issue today, it may happen on a fire!

Waypoint Upload

- Message Displayed in Garmin GPS III Plus

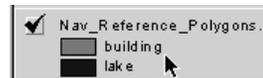


- Go into Waypoints Menu to view Waypoint List
- Congratulations!

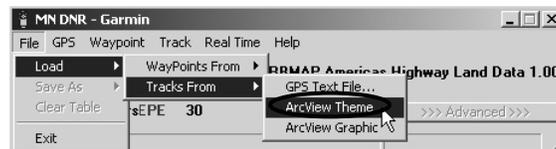


Track Upload

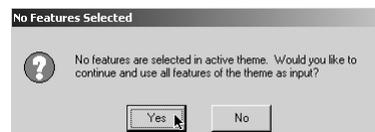
- Make Polygon Theme Active



- File | Load | Tracks From | ArcView Theme

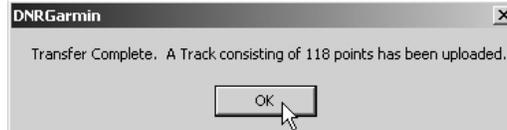
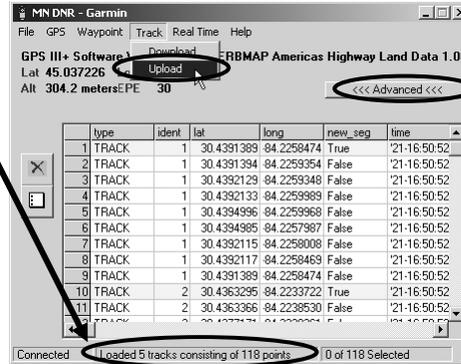


- All features will load unless you select individual polygons



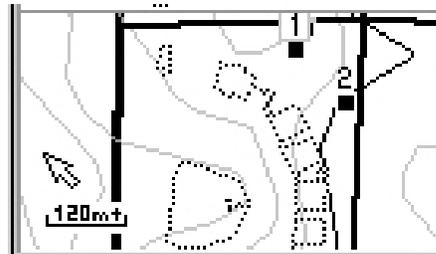
Track Upload

- <<<<Advanced>>>>
- Loaded Tracks Message
- Track | Upload
- Transfer Complete



Track Upload

- Message Displayed in Garmin GPS III Plus
- Go into Track Logs Menu to view % Active Log Used
- Go to map page to see display of waypoints and tracks
- Congratulations!
- You're ready to navigate!



Summary

- Opened ArcView project that contained a polygon and point shapefile
- Used DNR Garmin to upload points to Garmin GPS III Plus receiver as waypoints
- Used DNR Garmin to upload polygon to Garmin GPS III Plus receiver as tracks
- Confirmed upload to Garmin GPS III Plus receiver