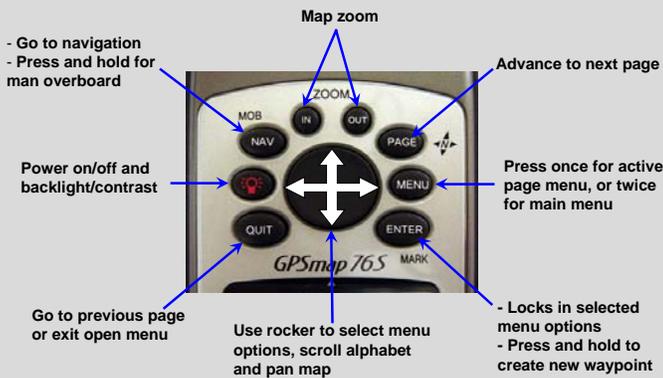


Track Log and Area Calculation



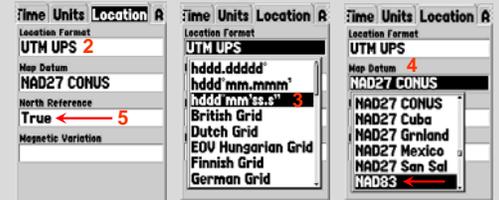
Garmin GPS Map 76S

1

Set Up Datum and Coordinate System



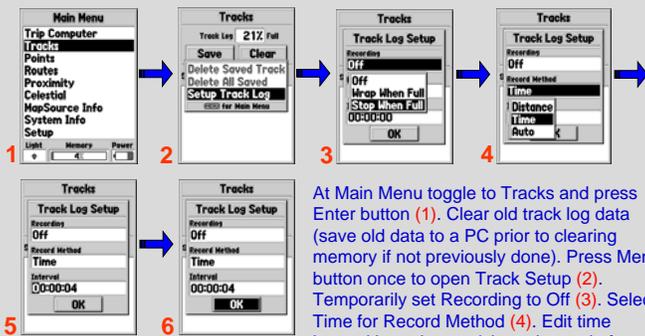
On Main Menu page verify that battery power and available memory are sufficient to complete the mission. Toggle down to Setup option (1). Press Enter button to open Setup menu.



Toggle right to the Location tab. Toggle down and highlight Location Format (coordinate system) (2). Press Enter button. Select correct coordinate system (3). Press Enter button to lock in selection. Toggle down to Map Datum and use same procedure to select correct datum (4). Use the National Wildfire Coordinating Group (NWCG) standard of datum NAD83, and the lat/long coordinate system - degrees, minutes and seconds (hddd mm ss.s). Set north reference to True unless another reference is preferred (5).

2

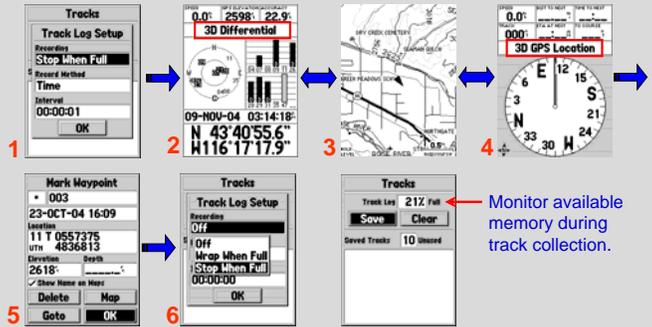
Set Up to Collect a Track Log



At Main Menu toggle to Tracks and press Enter button (1). Clear old track log data (save old data to a PC prior to clearing memory if not previously done). Press Menu button once to open Track Setup (2). Temporarily set Recording to Off (3). Select Time for Record Method (4). Edit time interval based on anticipated speed of travel and amount of memory available for the mapping mission (5). Select OK and press Enter button to lock in selections (6). With Recording mode set to Off, receiver will not collect track points.

3

Collecting a Track Log



To begin collecting a track log, verify that the receiver is triangulating a 3D position. Return to Tracks, Track Setup and to Stop When Full (1). Select OK to begin track collection. Verify that receiver is operating in 3D or 3D Differential mode throughout mapping mission. All other pages may be viewed during track log collection. Waypoints may be created while collecting a track log (5). To stop collecting a track log, set Tracks Recording to Off, or turn receiver off (6).

4

Collecting a Track Log – Tips

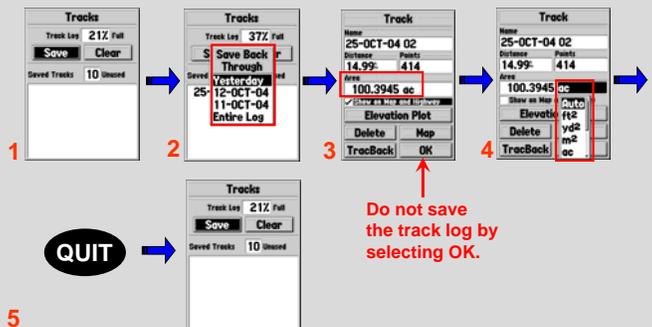
✓ When collecting a closed track (as in a fire perimeter), always stop the track log before reaching the starting point (graphic #1). Distance can vary, but generally a minimum of 20 feet between start and stop points is sufficient. Trying to close a perimeter track log at the same spot where the track log was started can create errors in the data when exported to a GIS, and can also cause incorrect area calculations in the GPS receiver (graphic #2).

Overrunning the starting point line can cause problems in GIS by creating an extra polygon, and may also cause the GPS receiver to give a false area calculation.



5

Viewing the Area of a Polygon



To view the area of a perimeter (polygon) select Save (1). Select the appropriate track log to save (2). Track log details will be displayed, including area (3). To change area value, highlight area format and press Enter button to open Area menu. Select desired format (ac = acres) (4). To avoid saving the track log do not select OK button (3). Instead, press Quit button to return to previous screen (5).

6