

Using the Garmin Geko 201 GPS

Up / Down buttons

Press to:

- (1) **Highlight options** on pages and menus
- (2) **Zoom in and out** on the map age
- (3) **Cycle through the information** on the navigation page



OK button

- (1) Press to confirm your selection
- (2) Press and hold to mark your position with a new waypoint

On / Off button

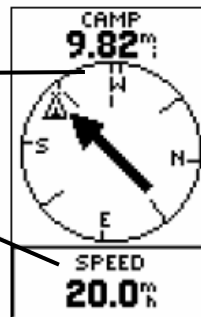
Page button

Press to access the 5 pages

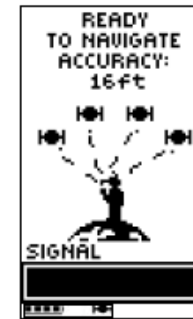
This is the navigation page

You follow the arrow to your destination if you are navigating to a waypoint. This figure tells you how far away the destination is.

This data field can be changed to show your elevation (height) location, heading, time and date or total distance travelled. Press the **up / down** buttons to cycle through the options.



The satellite page must display this message before you start. It tells you how accurate the GPS signal is



The **map page** shows where you are and draws a track behind you. Use the **up / down** button to zoom in and out. Press the **OK** button to activate the options and start a new track.



The trip computer page

Press the OK button to see the page options. You can reset your trip data or change the data fields by highlighting CHANGE FIELDS and using the **up / down** and **OK** buttons.

TRIP ODOMETER	460
MAX SPEED	32.1
MOVING AVG	3.1
TIME-MOVING	00:01:41

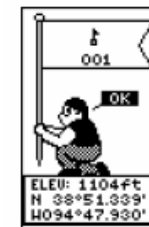
The menu page

From here you can mark or select waypoints, and open the games.



To mark a waypoint:

Press and hold **OK**
Use the **up / down** buttons to change the symbol and name if required.



Before you start:

Clear the unit of old data:

On the **Trip Computer** page
Press **OK** and scroll down and reset the max speed and trip data fields with the **OK** button.

Clear old waypoints and tracks by going to the **Menu page**, scroll down to WAYPOINTS press **OK** and then delete all. Return to the Menu page and choose TRACKS, press **OK** and clear the track log.

If you know your elevation (from an OS map) then set this value by going to the Menu page and selecting 'MARK' Press **UP** or **DOWN** to highlight the elevation field and press the **OK** button. Use **UP** or **DOWN** and the **OK** button to add the correct elevation, and when finished use the **UP & DOWN** button to highlight the OK field, and press the **OK** button to exit.

To record your position, press and hold the **OK** button for a few seconds.

A **waypoint** is saved. This might be a fieldwork site for example.

The waypoint can be given a name by pressing the **UP / DOWN** arrow and clicking the **OK** button to edit the name (on the little flag)

Communicating with a PC

Some digital map programs like Anquet or Memory Map can interact with your GPS. Otherwise, if you need to exchange information between the GPS and a PC you will need to use a third party application. My favourite is Easy GPS from www.easygps.com/



Using a hand-held GPS for Geography fieldwork

Key Words

GPS = Global Positioning System

Waypoint = A GPS location

Track = An electronic 'breadcrumb' trail that records your movements

To record a new track, walk to the starting point and clear the track log from the **Menu page**.

Walk along the chosen route and at the end, save the track log by going to the **Menu** page and using the **UP DOWN** keys to select 'TRACKS'. Press **OK** and then select 'SAVE'. Use the **UP DOWN** keys to pick beginning and end points for the track and click **OK** each time.

Make a note of the name of the saved track, or edit its name by using the **UP DOWN** and **OK** buttons. You can save up to 10 tracks in this way.

A **track** contains information about your position, speed and elevation, as well as the time and date. You could use a track to record a gradient profile.

Using GPS data

Back in the classroom, you can export data from the GPS and plot your waypoints on maps and in Google Earth. You can also analyse your tracks and draw profiles and maps. Your teacher may save the GPS data for you on Shared Documents. You can use various websites to analyse and plot your GPS data.

The most useful website is www.gpsvisualizer.com for plotting your data.