

### **GPS GENERAL GUIDELINES FOR ETREX GPS 30**

- Switch the power on through the light button. To have a better view on the screen, you can put on the light of the screen by pressing the light button twice.
- The back button will bring you to the former page that you have seen. To go back to the MENU page, you can use the **BACK button**.
- **MENU PAGE**: on the menu page, you will find all the different icons that are necessary while using the GPS. The main ones that you will use are the SET UP, MAP, COMPASS, WAYPOINT MANAGER, TRACK MANAGER, AREA CALCULATION, MARK WAYPOINT AND WHERE TO?
  - You can delete icons, add icons or move icons on the screen in the menu page. You press the menu button and it will ask 'change item order', then you can move the position of the icons or remove the icons.
  - To put all the icons back, you go to the MENU PAGE, press the menu button and it will ask 'change item order'. Then click again on the menu button and restore.
- Each GPS can be **personalized** according to the preferences of the user. Go to the **MENU PAGE** and go to **SETUP**. The main icons you will be using are the map, units, position format and time.
  - Map: for orientation
    - Change the orientation from Track up to North up. Walk around to see the difference. In general, the Track up is the preferred option to work with.
  - Units setup:
    - In Kenya you will be using mainly the metric systems and you will be put everything in meters.
  - Position format
    - Change the position format to degrees with minutes and seconds.
  - Time
    - Change the time to location other and say +3 hours...
- **To go to the map**, you will look for the icon **MAP** on the **MENU PAGE**.
  - Zooming in and out in the MAP: The two buttons on the left side of the GPS will help you to zoom in and out. On the left side on the screen you will see the scale of the map. (800km going to 5m).
  - Navigating on the screen. The small triangular icon on the screen will show you where you are. You can use the joy-stick to navigate on the screen to see what points you have already taken in the surrounding area. To return to the point of reference, you can click on the BACK button.
  - The page button is also often used to return to the previous page or setting...
- Using the **compass**. Go to the MENU PAGE and search the icon compass. Sometimes the compass is decalibrated if you have gone through a machine with radiation. To recalibrate the

compass, go to the compass and press the menu button. Look for the option calibrate compass. The screen will tell you step by step what to do to calibrate the compass.

- **Waypoints,**
  - To quickly take a waypoint, push the joy-stick for a longer period. A screen will drop down to save the waypoint. You can change the name of the waypoint by using the joy-stick, you can add notes, change the coordinates.
  - To change details of a waypoint: go to the waypoint manager, select the waypoint to delete, click on it and change whatever necessary.
  - To delete a waypoint: go to the waypoint manager, select the waypoint to delete, click on it and press the menu button. You have an option to delete it.
  - Most GPSs have a range to save around 500 waypoints. If it is necessary to delete all the waypoints, go to the waypoint manager, click on it and press the menu button. It will give you the option to delete all the waypoints.
- **Saving waypoints:** in the computer you can save the waypoints in google earth, mapsource and other softwares. You normally will save all the waypoints. Therefore, it will be interesting that you delete all waypoints after you have downloaded (see waypoints).
  - Google Earth: go to tools and go to GPS. Choose the GPS you are working with and select what you want to download. All points will come into your temporary places...
- **TRACKING.** The tracking tool is also very interesting. It will track where you have already been. When you are working in a site, it will help you see what you already have been doing.
  - To switch the track on/off, go to the main menu page and go the set up icon. Select the track icon and choose the track log and ask to RECORD and show. To switch off, put it on STOP RECORD.
  - You can also save tracks separately if you wish to, but google earth doesn't download them properly. If you are making a perimeter of a settlement, use GPS points...
- **Measure distance:** Go to the map page and go to the point from where you want to start measuring. Press the menu button and it will show you an option to measure distance. Use the joy-stick and the zoom in/zoom out buttons to move to the other waypoint you want to know the distance from. The screen will display the distance
- **Navigation tool:** if you want to navigate to a certain point, you will go the WHERE TO icon on the MENU PAGE. You will have different options to choose from (waypoint, a specific coordinate,...). When you return to your home page, you will see a pink line going to the selected point. To stop navigating, go to the WHERE TO icon again and it will ask you to STOP NAVIGATE.

## **PRACTICAL EXERCISE**

1. Standardize your GPS
  - a. Kenyan time
  - b. to degrees, minutes and seconds.
  - c. Change everything to metric (meters)
2. Delete all previous waypoints
3. Put on track, walk around and put off track
4. Save a track and name it.
5. Now, we will make an exercise of the compound and we will take the following information.
  - Entrances to the compound and checkpoints.
  - Tappoints
  - Entrances to the buildings (front entrance, side entrances, kitchen entrances...
  - Take the corner points of the main buildings.
  - Take the perimeter points of the compound
  - Take the main water-points (tap points outside)
  - Take the outside sitting areas.

The first five points you will name yourself, the others you will fill in a sheet.

6. Take also the dimension of the entrance gate to the main entrance to the hotel.