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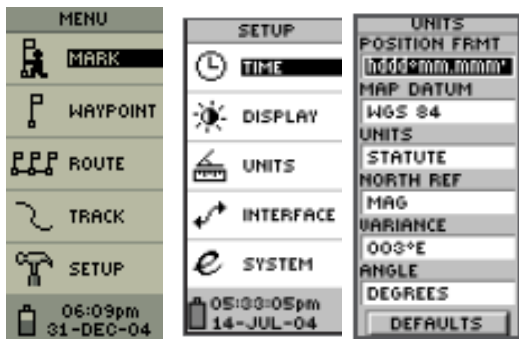
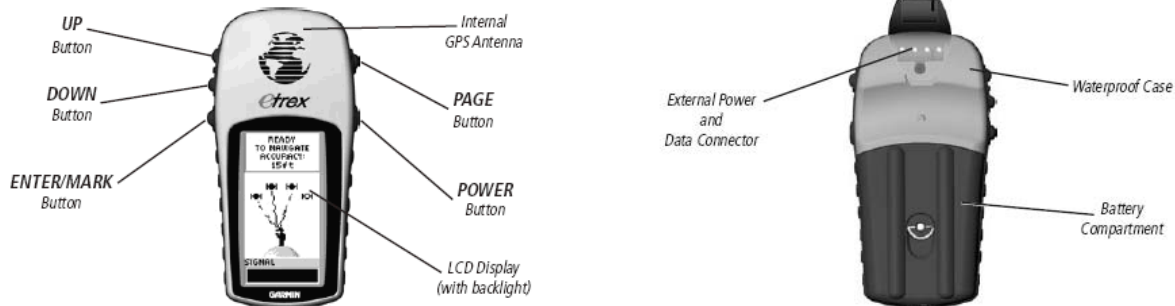
## USAID Nepal Flood Recovery Program M&E Bulletin 02: Using the GPS Unit (Garmin Geko eTrex)

July 2008



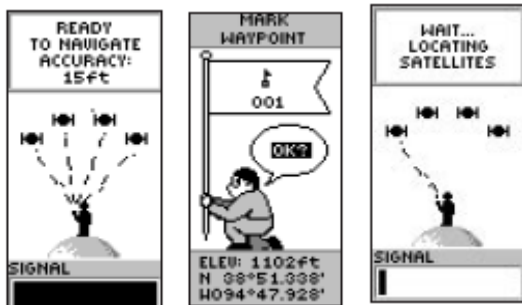
### USAID Nepal Flood Recovery Program

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### 1. Configure the Unit:

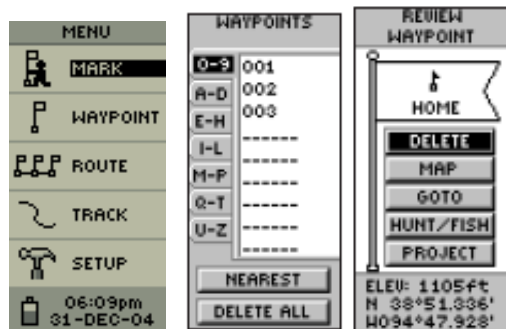
- a) Turn on your GPS unit - press and hold the 'Power' button (PWR, on the right side of the unit)
- b) Click on the 'PAGE' button (on the right side of the unit) four times, until the menu is displayed
- c) Use the down arrow (left side of the unit) to highlight 'Setup'
- d) Press 'ENTER' (left side of the unit)
- e) Use the down arrow to highlight "Units"
- f) Press 'ENTER'
- g) Make sure that the "POSITION FRMT" shows hddd.ddddd° - if not, press 'ENTER', and select hddd.ddddd° from the list (it is the first one on the list), then press 'ENTER' again
- h) Make sure that MAP DATUM shows "WGS 84" - if not edit it like you did in (g) above
- i) Make sure that UNITS are metric - if not edit as you did in (g) and (h) above
- j) Click the 'PAGE' button three times when done until you get back to the satellite screen



### 2. To store a waypoint:

- a) Turn on your GPS unit
- b) Wait for the unit to locate the satellites and the message 'READY TO NAVIGATE'
- c) **Wait 2-3 minutes for the unit to calibrate. Check the 'Accuracy', this number should be as low as possible.**
- d) Press and hold the 'Enter' button
- e) The 'Mark Waypoint' page will automatically appear
- f) The unit automatically assigns a number to the point. Write it down so you remember later to add it to CIRIS under the correct client.
- g) Press 'Enter'

**3. To access the waypoint information:**



- a) Click on the 'PAGE' button (on the right side of the unit) four times, until the menu is displayed
- b) Use the down arrow (left side of the unit) to highlight 'WAYPOINT'
- c) Press 'ENTER' twice
- d) Scroll down to the point you want to select
- e) Press 'ENTER'
- f) Copy the coordinates and elevation information to the client's information in CIRIS
- g) To see a different waypoint, press 'PAGE' and scroll to the next point.

**DATA SHOULD BE ENTERED INTO CIRIS AS FOLLOWS:**

(a) **LATITUDE** is measured from the equator. **North** is a positive number and **South** is negative. It can be a positive or negative number for Kenya. It will always be a positive value for Ethiopia, Central America and the Caribbean.

(b) **LONGITUDE** is measured from the Greenwich Meridian. **East** is a positive number and **West** is negative. It should always be a positive for both Ethiopia and Kenya and negative for Central America and the Caribbean.

(c) Enter all of the numbers that show on your GPS unit, with as many decimal places as showed (do not round the number!) and include the **NEGATIVE** sign depending on location. If you should be using a negative (-) sign, but forget to enter it, your client will appear on the wrong side of the world when imported into a mapping program! Do not enter the letters either; the number with the correct sign is enough. Be sure to use a point to separate the decimals, not commas or other symbols.

(d) **Examples:**

COUNTRY	LATITUDE	LONGITUDE	
Jamaica	17.89348	-77.67141	N latitude and W longitude
El Salvador	13.8504767	-89.47341	N latitude and W longitude
Honduras	15.21906	-87.72099	N latitude and W longitude
Kenya	-03.988600	39.592967	S latitude and E longitude
Kenya	00.476233	35.584956	N latitude and E longitude
Ethiopia	08.335328	39.402467	N latitude and E longitude

(e) Make sure to also enter the elevation into CIRIS - given in **meters**, do not include the units when transferring the information.