Installation and Collection Instructions

Installation

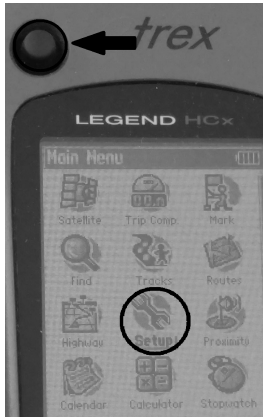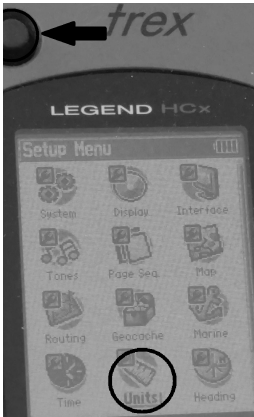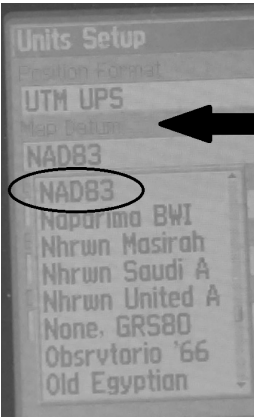When installing the bumblebee boxes, students must find flagging tape on a tree and **ONLY** install on those trees. When students pick a spot, they must record the GPS coordinates on the worksheet below.

Setting up the GPS:

Turn on GPS using light bulb button.	Select the main menu by pressing the button twice.	Using the navigator, select "Set Up" by pressing the navigator.	A new page will appear. Navigate and select "Units".	Navigate down to "Map Datum",and select NAD83. Return to main menu.	Navigate to and select "Satellite"

Reading the GPS:
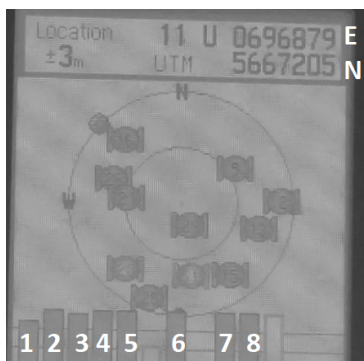
Once you navigate to the Satellite page, the GPS will show the Easting, Northing, and number of

satellites that the GPS has picked up on.

The top number is the Easting (labelled E) and the bottom number is the Northing (labelled N).
Count the black bars to determine number of satellites acquired by the GPS for that reading.
Do not include black bars that are 2 ½ rows in height or less. As seen in the picture, the black bar about the height of one row was skipped in the count.

Now that your GPS is ready to go, please take the time to carefully record your the GPS locations for the boxes that you install and observations on the table. As citizen scientists, this is a crucial job to ensure we keep track of the boxes. Please have a parent volunteer keep the sheet safe and work together to fill it out.

Filling in the table:
- Location Number **(Loc #)** → number written on the flagging tape.
- Identification Number **(ID #)** → number that identifies the box (on the bottom of the box).
- **# Bars** → number of black bars at the bottom of the GPS window.
- **Description of Box Location and Observations** → describe side of tree (i.e. north side or down slope side of tree), location of box in relation to other boxes (i.e. 15m south of Box BBR-1) or edge of grove/fence (i.e. tree at edge of grove, 1m north of fence).

If you need any further space, please use the back of the table and write out the Loc#/ID# along with any further information.

Table: Bumble Bee Box data for _____(park name & area, e.g. Nose Hill South Bushes)

Loc # (tape)	ID # (bottom box)	# Bars	Easting	Northing	Description of Box Location and Observations
NS-					
NS-					
NS-					

NS-					
NS-					
NS-					
NS-					
NS-					
NS-					
NS-					
NS-					
NS-					
NS-					
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