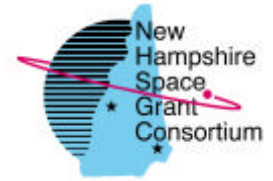**Forest Watch**
University of New Hampshire
Durham, NH 03824

Operating the Magellan GPS 3000 Satellite Receiver

1. **Turn GPS on.**
   - Push On/Off button for 5 seconds.
   - When The GPS receiver comes on, it will display the Lat/Long Nav screen and should say "Searching".
   - *Note: There are six different NAV screens, which can be cycled through by hitting the NAV button, but use the screen with the Lat/Long coordinates.*
   - *Note: If batteries are changed, GPS unit must be initialized – (See back of sheet.)*

2. **Attaining Latitude/Longitude Coordinates**
   - Hit the NAV key until the position screen appears.
   - The screen should say "SEARCHING" and 3 bars should be filling up.
   - If the receiver keeps searching for more than 5 minutes check the following:
     - ➤ Is anything blocking your view of the sky?
     - ➤ Is the latitude and longitude correct on the position screen?
     - ➤ Is the time and date correct?
   - When it stops searching it will display the Lat/Long and time.
   - If you're having difficulty setting readings, try moving around a bit and holding the unit above your head.
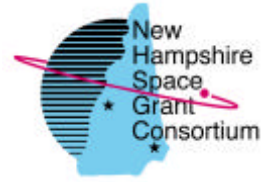
3. **Viewing Satellite Status**
   - Press MNU, highlight SAT STATUS and press ENT.
     - ➤ The black squares give the position and signal strength.
     - ➤ The outer circle is 20 above the horizon.
     - ➤ The inner circle is 50 above the horizon.
     - ➤ 0-2 = weak, 3-6 = average, 7-9 = strong signal, * = no signal
     - ➤ You need at least 3 satellites receiving in order to get a position fix.

4. **Filling Out the Data Sheet**
   - Take one reading every few minutes.
   - Record the position (Lat/Long coordinates) 10 times for your site by moving around your plot center.
   - Record the date, time, and number of satellites for each position.

Initializing GPS Receiver – *Receiver must be initialized if batteries are changed*.
   - Press MNU and arrow down to SETUP MENU and press ENT.
   - Enter the coordinates of the city closest to your school.
     - ➤ Boston: 42°21.00N 71°03.00W
     - ➤ New York: 40°43.00N 74°01.00W
   - Enter your local time (within 10 minutes) and date.
   - *Note: The numbers can be changed by pressing the arrow keys.*

Forest Watch
Magellan GPS Data Sheet

School Name _____

Tree #'s _____   Address_____
Teacher _____   _____
Date Positions Recorded _____   _____
GPS Unit Number (See back of Unit)_____

Position #1 _____   # of Satellites ____   Time _____

Position #2 _____   # of Satellites ____   Time _____

Position #3 _____   # of Satellites ____   Time _____

Position #4 _____   # of Satellites ____   Time _____

Position #5 _____   # of Satellites ____   Time _____

Position #6 _____   # of Satellites ____   Time _____

Position #7 _____   # of Satellites ____   Time _____

Position #8 _____   # of Satellites ____   Time _____

Position #9 _____   # of Satellites ____   Time _____

Position #10 _____   # of Satellites ____   Time _____

Please note any special circumstances: