Brief Instructions for Measuring Tree Height
using the Field Tape Measure and the Haglof ECII clinometer.

Haglöf ECII

- Hold the EC II instrument as in the picture.
- Aim with both eyes

Function
1. DIST Distance setup and height measuring (m/ft)
2. HGT Height Measuring (m/ft)
3. DEG Inclination/Angle (%/°)
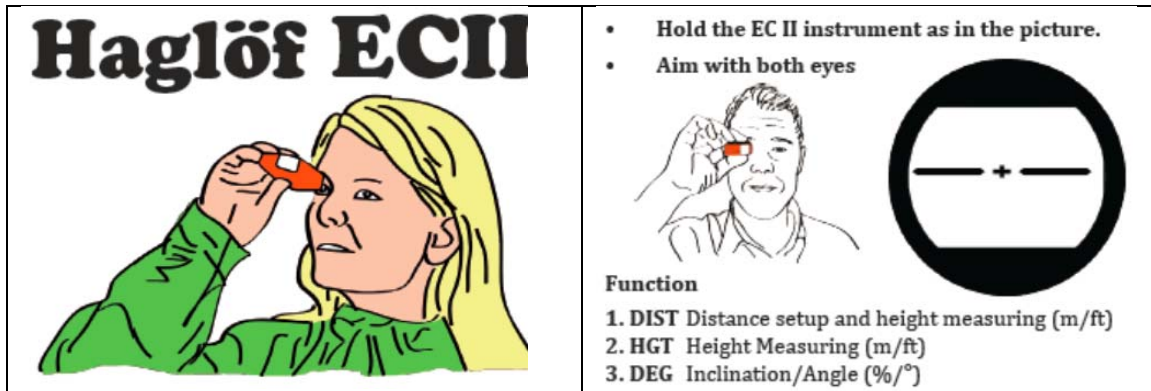
Illustrations are Metric but our instrument is calibrated in Feet! *Only 4 remaining countries in the world use the English Imperial system of measurements 1) Liberia 2) Myanmar (formerly known as Burma) 3) United States of America 4) UK* *Though The metric system is in official use within the United Kingdom; however, use of Imperial unit is widespread in many cases - For example it is illegal for metric road signs and illegal to sell draught beer in metric.*

1. Use the Field Tape Measure to measure a known distance, in feet, from the center of the tree to your measurement point, where the clinometer will be used. 50 feet will work in most cases, but this is adjustable. Just make sure you can see the bottom and top of the tree from where you establish your measurement point.

2. Standing at your measurement point, Press the 'ON' button of the ECII ONCE to verify that the distance measured in step one is displayed. If the distance measured and the displayed distance don't agree, adjust the distance in the ECII to correspond with the measured distance.

Distance Setup [DIST]

DIST M
20
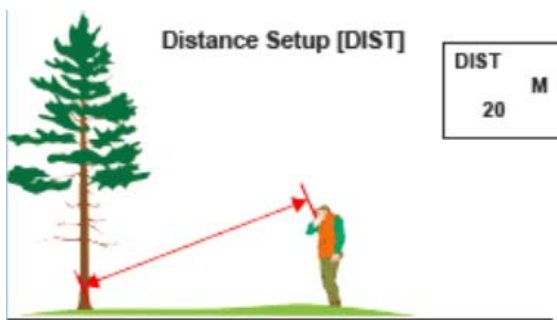
STEP's 1 & 2

Adjusting the ECII Distance Setting: Step up (increase) with the '+' button and down (decrease) with the '-'button. Optional distance from 0 to 100 ft can be registered. A single press increases or decreases distance by 1. Hold the button '+' or '-' down to scroll distance by 5. Release the button when the required distance is reached. The ECII will use the last input distance as the default distance if the instrument is turned off.

NOTE! The ECII does not measure distances. Use the Field Tape Measure to determine the correct distance to the tree. Make sure the distance measured (step 1) and distance displayed (step 2) in the ECII correspond!

3. Press the 'ON' button to register the distance. This will cycle you to the Degree Function of the ECII.

4. Measure the angle to the bottom of the tree by aiming with the horizontal lines in the instrument display and pressing 'ON' one time. Wait for the Beep! **NOTE! Use both eyes when aiming!**

5. Measure height by aiming at the top of your tree and press 'ON'. Wait for the Beep! **NOTE! Use both eyes when aiming!** To measure more heights on the same tree simply aim and press the 'ON' button at your selected heights. NOTE! It's good practice to make at least 3 measurements of the height of your tree, to establish the accuracy of your measurement.

Height Measuring [HGT]

HGT
M
21.3

STEP 4   **STEP 5**

6. Don't forget to record your height measurement in your excel sheet!

1. Aim

2. Battery Compartment

3. How to hold the ECII instrument.
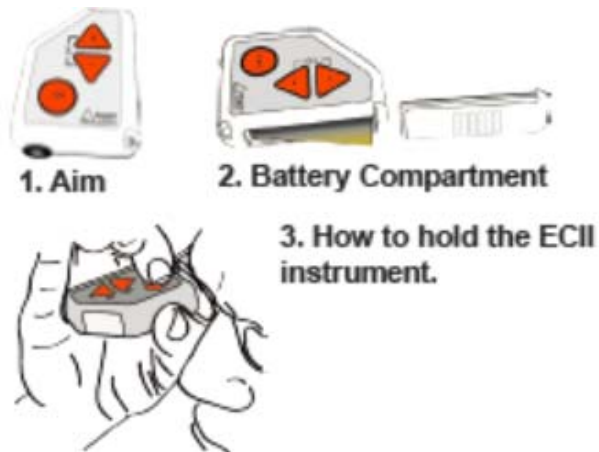
FINAL NOTE: Share! – Like your parents taught you! That is, swap off on individual roles of all procedures for making various measurements, so that, everyone on your team, gains experience in making ALL measurements (DBH, Crown, Height, Record Keeping). Also, reach a consensus on the location, species, and health for each assigned tree! Endeavor to develop excellent team skills!