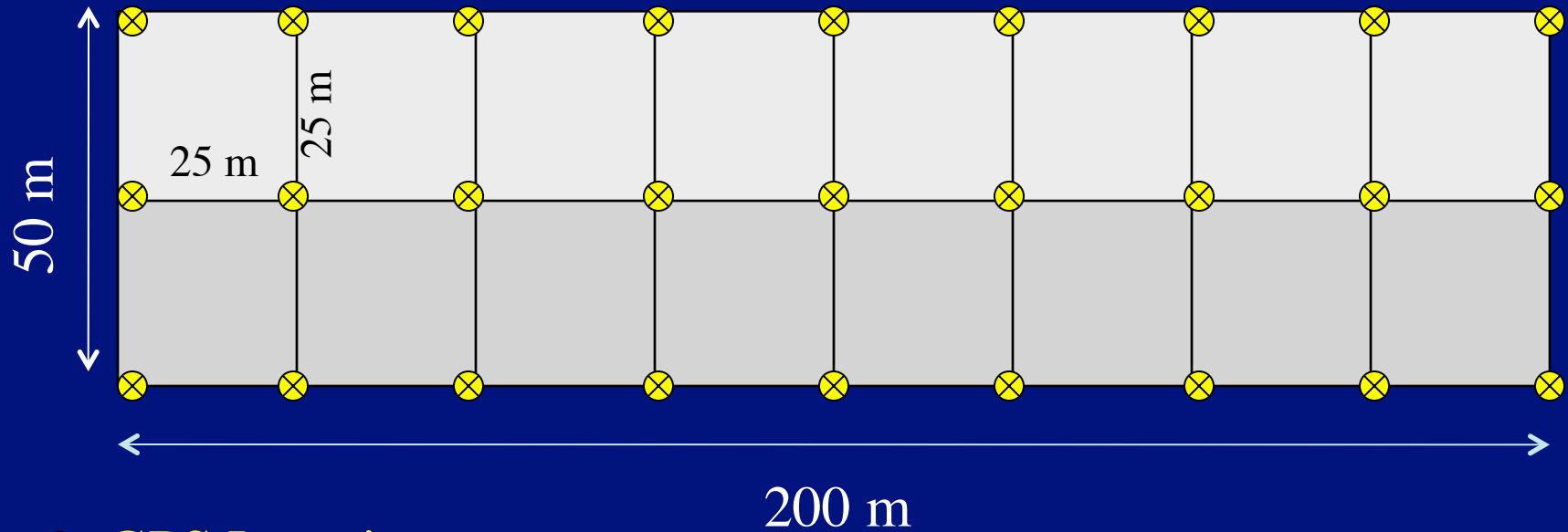


Calibration & Inventory Plot Design

1 ha (50 m x 200 m)



⊗ GPS Location

Measurements:

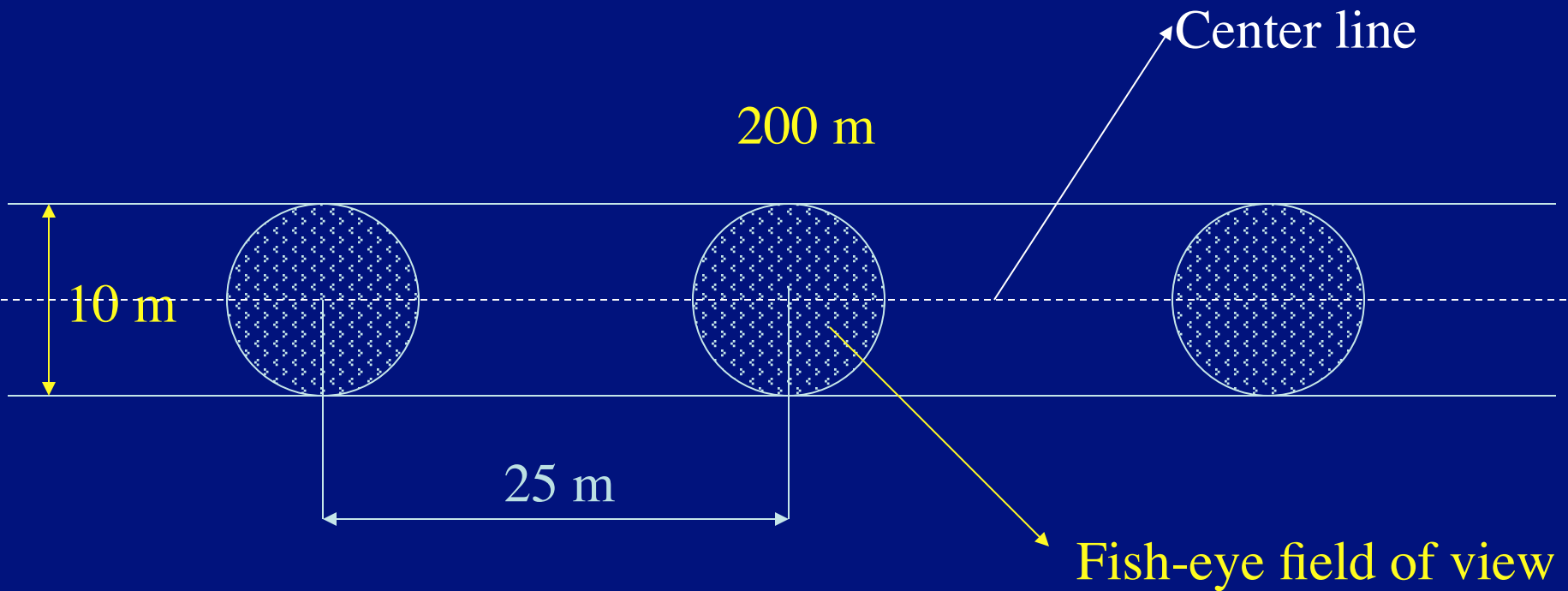
Tree DBH: > 10 cm (trees with buttress are measured above buttress)

Tree Height: Top canopy height

Tree Species: for Wood density identification

Tree Location: within 25 m x 25 m quadrant

Forest Structure Along a Transect



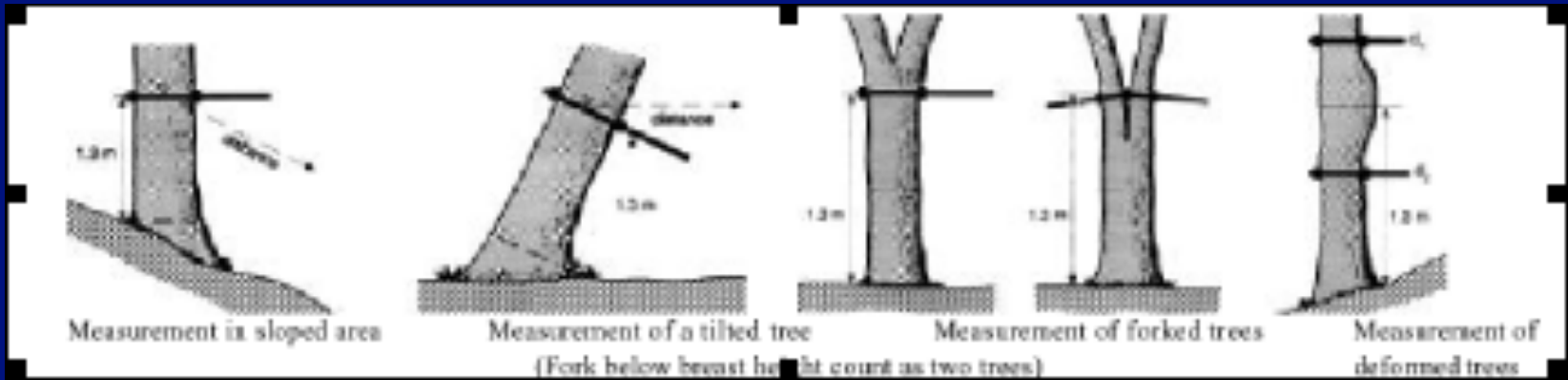
1. Put the center line and mark every 25 m with a flag
2. DBH > 10 cm at 1.3 m from ground & height measurements
3. GPS data collection at each corner of 25 m x 25 m quadrant
4. Fish-eye digital photography along the center line of the transect plot every 25 m on a tripod 1.3 m from ground

Samples of Fish-eye Photography of Forest Canopy

1. Measurements are done with a Nikon COOLPIX with Nikon Fish-eye at a height of 1.3 m from ground on a tripod.
2. Take pictures by moving the camera 1 m from the center location in four cardinal directions to capture light interception in different directions.



DBH Measurements



1. DBH measurements are performed with standard tree DBH meters at 1.3 m above ground
2. Location of trees along transect are known within each 25 m x 25m quadrant.
3. Trees with buttress are measured 50 cm above the top of buttress.

