

A photograph of a lush forest. In the center, a large, textured tree trunk stands vertically. The foreground is filled with various green ferns and smaller plants. The background is a dense canopy of green leaves, with some light filtering through. The text '2017 NYC Envirothon FORESTRY' is overlaid in orange on the upper part of the image.

2017 NYC Envirothon
FORESTRY

Why we need forests

- **Habitat for wildlife and plants**
- **Water reservoirs and filters**
- **Carbon sinks**
- **Oxygen production**
- **Regeneration of soils**
- **Lumber**
- **Recreation**
- **Aesthetics**



**Emergent
Layer**



**Canopy
Layer**



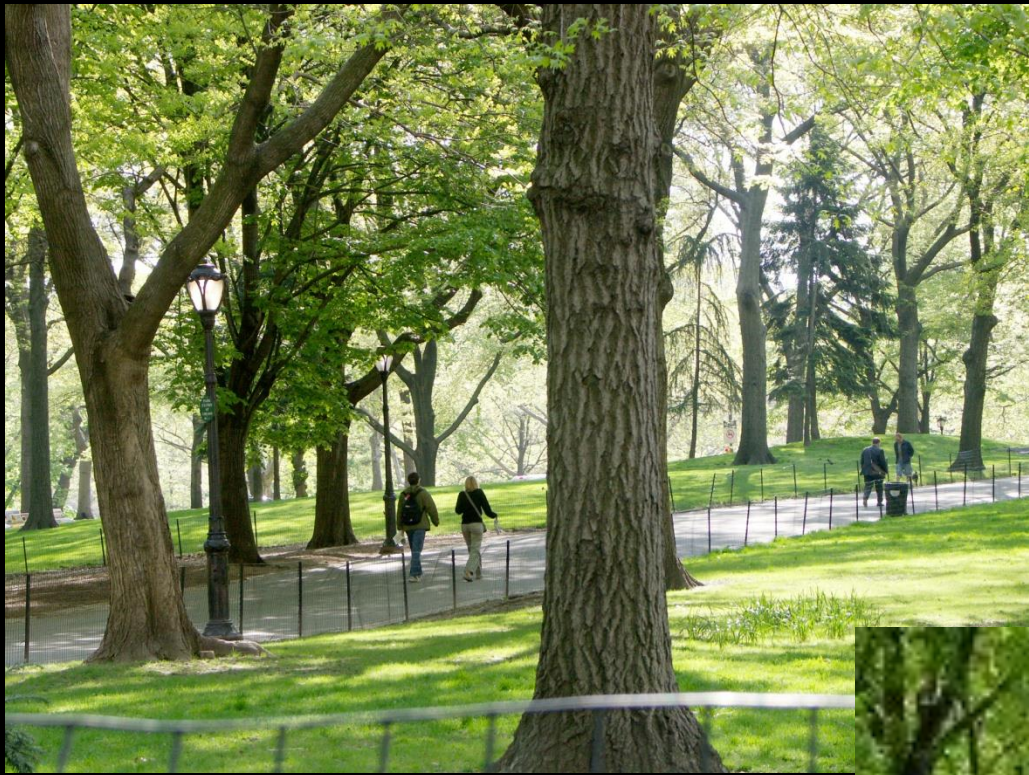
**Understory
Layer**



**Forest
Floor**







"New" Role of Trees



Challenges in NYC Forests

- **Highly fragmented ecosystem**
- **Invasives**
- **Exposure to pollutants**
- **Infrastructure**
- **Urban soils**
- **Human caused disturbance**



Tree Ring Interpretation

