

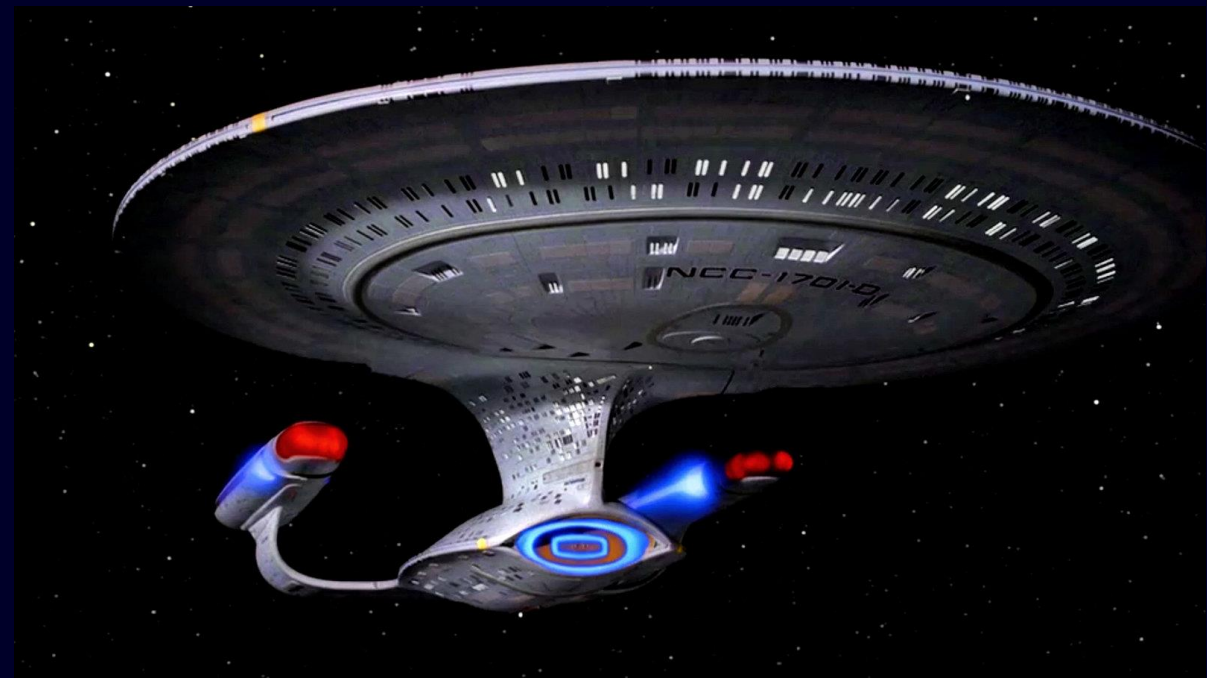


Chesapeake Bay Watershed Land Use: the Next Generation

Peter Claggett, Coordinator
CBP Land Use Workgroup

November 6, 2019
Land Use Workgroup Call

U.S. Department of the Interior
U.S. Geological Survey



Local land use and parcel data



- Low-density Residential
- Recreation
- Agriculture
- Roads

High-resolution land cover data



- Impervious surfaces
- Tree canopy
- Low vegetation
- Water

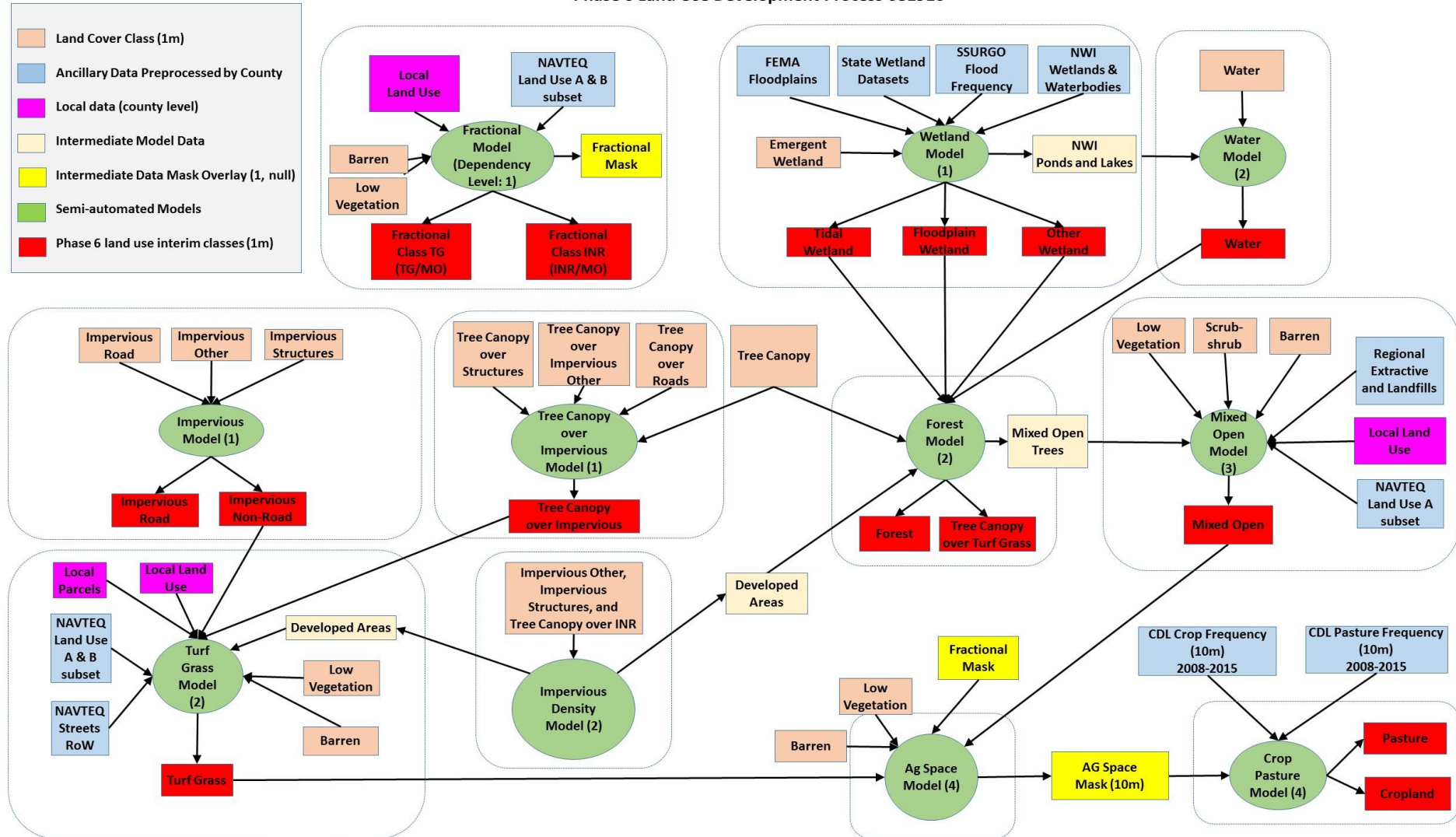


Phase 6 Land Uses

- Impervious-Roads
- Forests
- Turf Grass
- Open Space

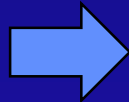
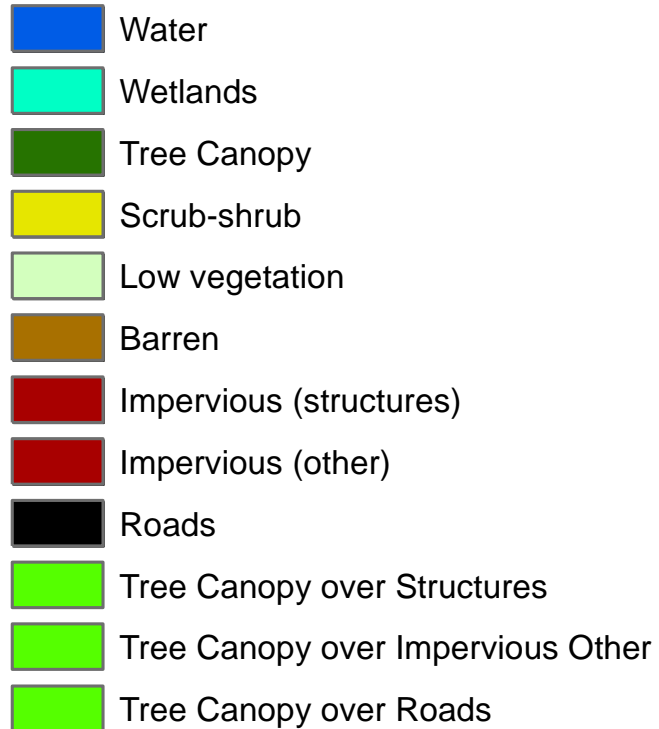
Phase 6 Land Use Model: translating land cover into land use

Phase 6 Land Use Development Process 081916

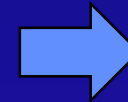


2013 Chesapeake Bay Watershed Land Cover/Use Data

1m Land Cover



1m Land Use



10m Land Cover/Use



Current vs Potential Land Use Classes

Tree Canopy/Scrub-shrub/Herbaceous

- Tree Canopy Over Impervious
- Tree Canopy Over Turf Grass
- Forest
 - Deciduous
 - Evergreen
 - Cultivated (orchards, vineyards)

Impervious

- Roads
- Non-Roads
 - Buildings
 - Resid/ Comm/ Indus.
 - Greenhouses
 - Poultry
 - Dairy
 - Solar fields
 - Other (driveways, parking lots)

Wetlands

- Tidal
- Floodplain
- Other
 - Headwater
 - Isolated

Herbaceous/Barren/Scrub-shrub

- Turf grass
- Pasture
- Cropland
 - Center Pivot
- Mixed Open
 - Harvested Forest (0-3 yrs)
 - Managed succession
 - Natural succession (fallow)
 - Suspended succession (right-of-ways)
 - Extractive (active)
 - Construction (bare pre-development)
 - Bare shore
 - Marine/Estuarine
 - Lotic
 - Lentic

* White classes are current.

* Yellow classes are proposed.