

File Edit View Favorites Tools Help

http://www2.ftw.nrcs.usda.gov/osd/dat/E/EVESBORO.f

Official Series Description - EVESBORO Series

LOCATION EVESBORO NJ+DE MA MD

Established Series  
 CSL/Rev. EM-DHK  
 06/2006

### EVESBORO SERIES

MLRA(s): 149A (Northern Coastal Plain), 149B (Long Island Area)

Depth Class: Very deep

Drainage Class (Agricultural): Excessively drained

Saturated Hydraulic Conductivity: High in the subsoil and high in the surface soil

Landscape: Coastal Plain upland

Parent Material: Sand, marine and eolian deposits

Slope: 0 to 10 percent

Mean Annual Air Temperature (type location): 13 degrees C

Mean Annual Precipitation (type location): 1143 mm (45 inches)

**TAXONOMIC CLASS:** Mesic, coated Lamellic Quartzips

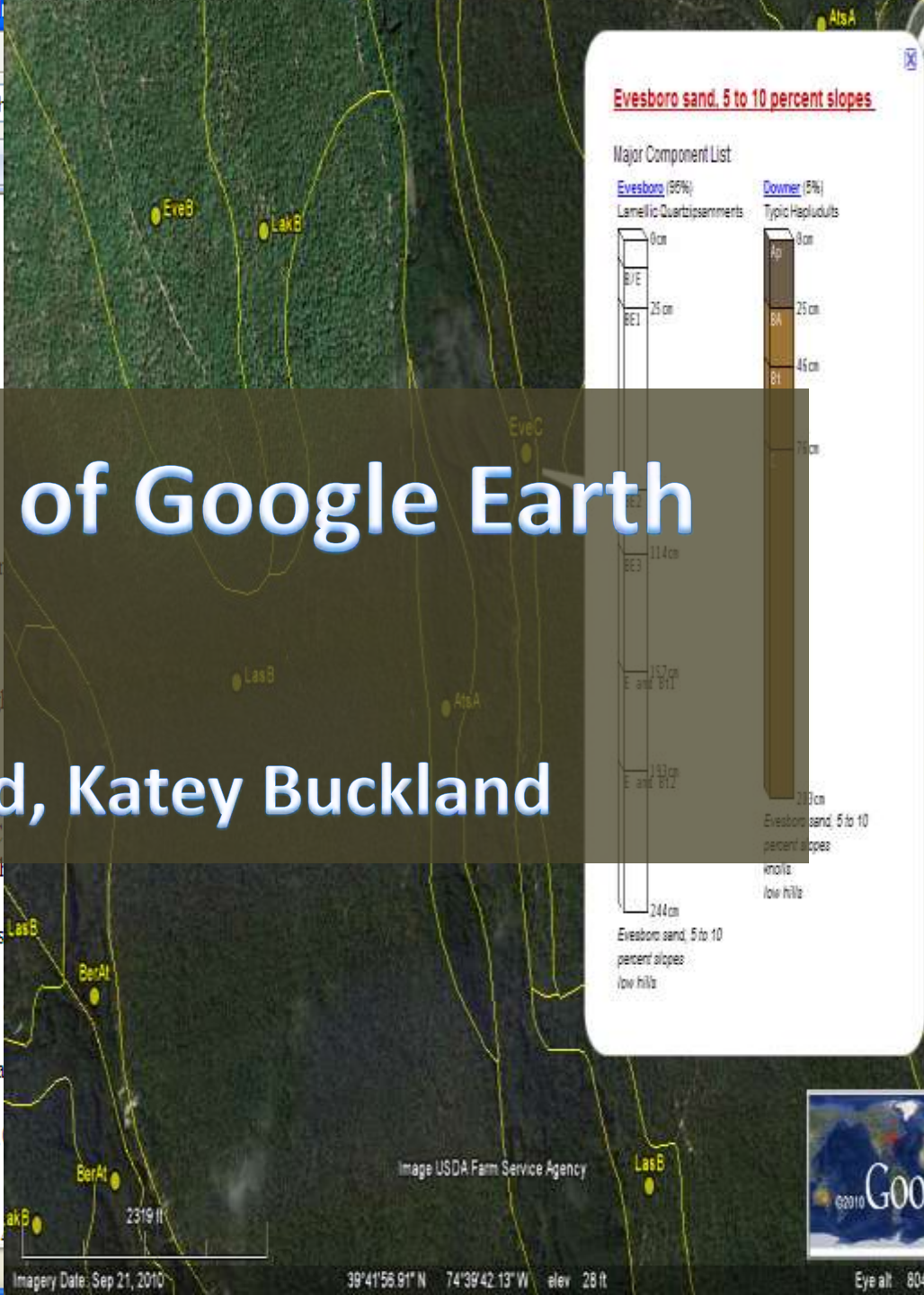
**TYPICAL PEDON:** Evesboro sand, in woodland. (Colors

**Oe**--0 to 2.5 cm (0 to 1 inch); black (7.5YR 2.5/1), moderate

**A1**--2.5 to 5 cm (1 to 2 inches); very dark grayish brown (10YR 2.5/1) boundary. (2.5 to 13 cm thick)

**A2**--5 to 10 cm (2 to 4 inches); dark grayish brown (10YR 2.5/1)

Done



**Evesboro sand, 5 to 10 percent slopes**

Major Component List

Evesboro (95%) Lamellic Quartzips	Downer (5%) Typic Hapludults
0cm	0cm
B/E	BA
25 cm	25 cm
BE1	B1
	45 cm
	75 cm
	203 cm

Evesboro sand, 5 to 10 percent slopes  
knolls  
low hills

Evesboro sand, 5 to 10 percent slopes  
low hills

# Applications of Google Earth

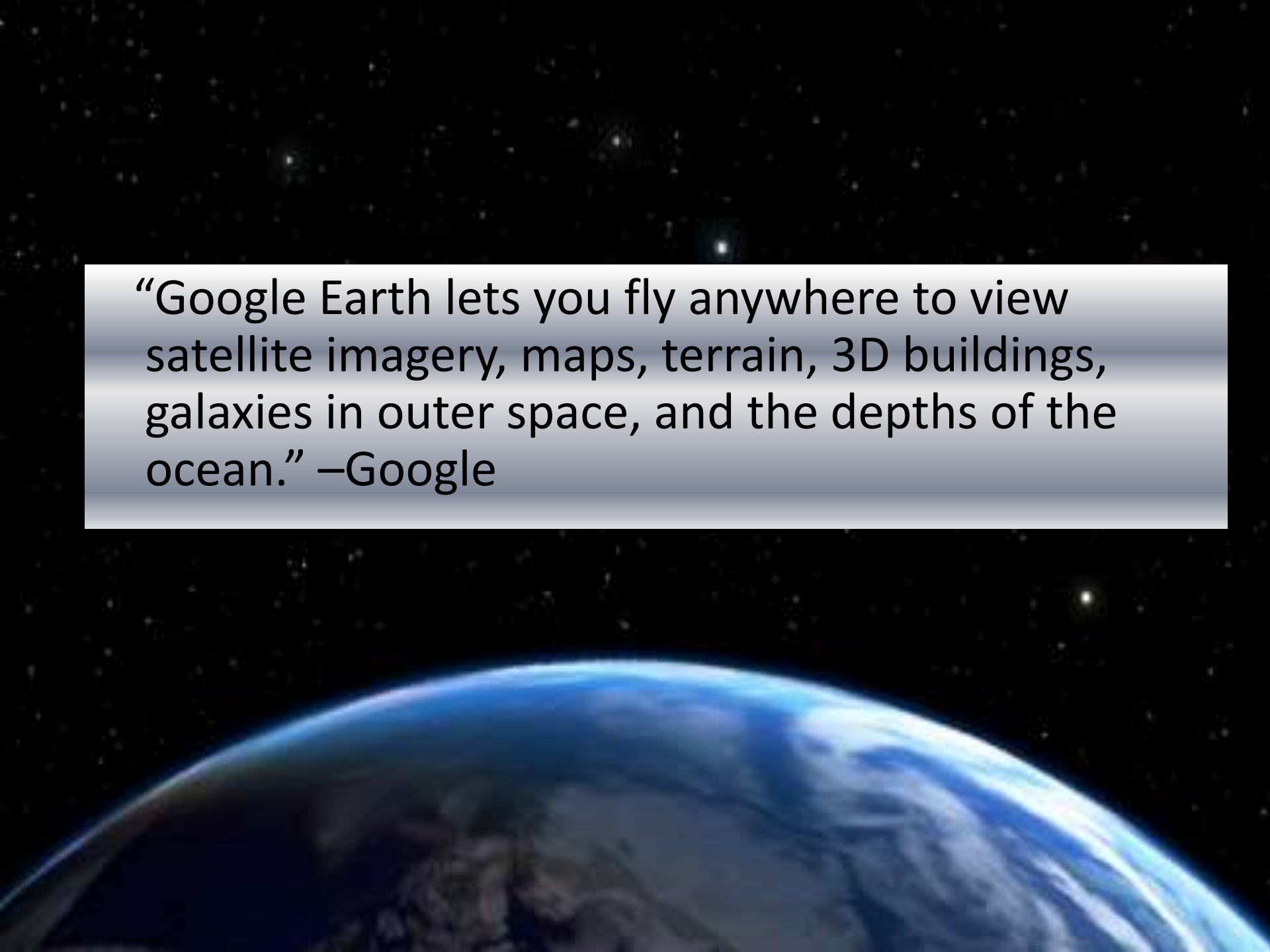
## Rob Tunstead, Katey Buckland

Image USDA Farm Service Agency

Imagery Date: Sep 21, 2010

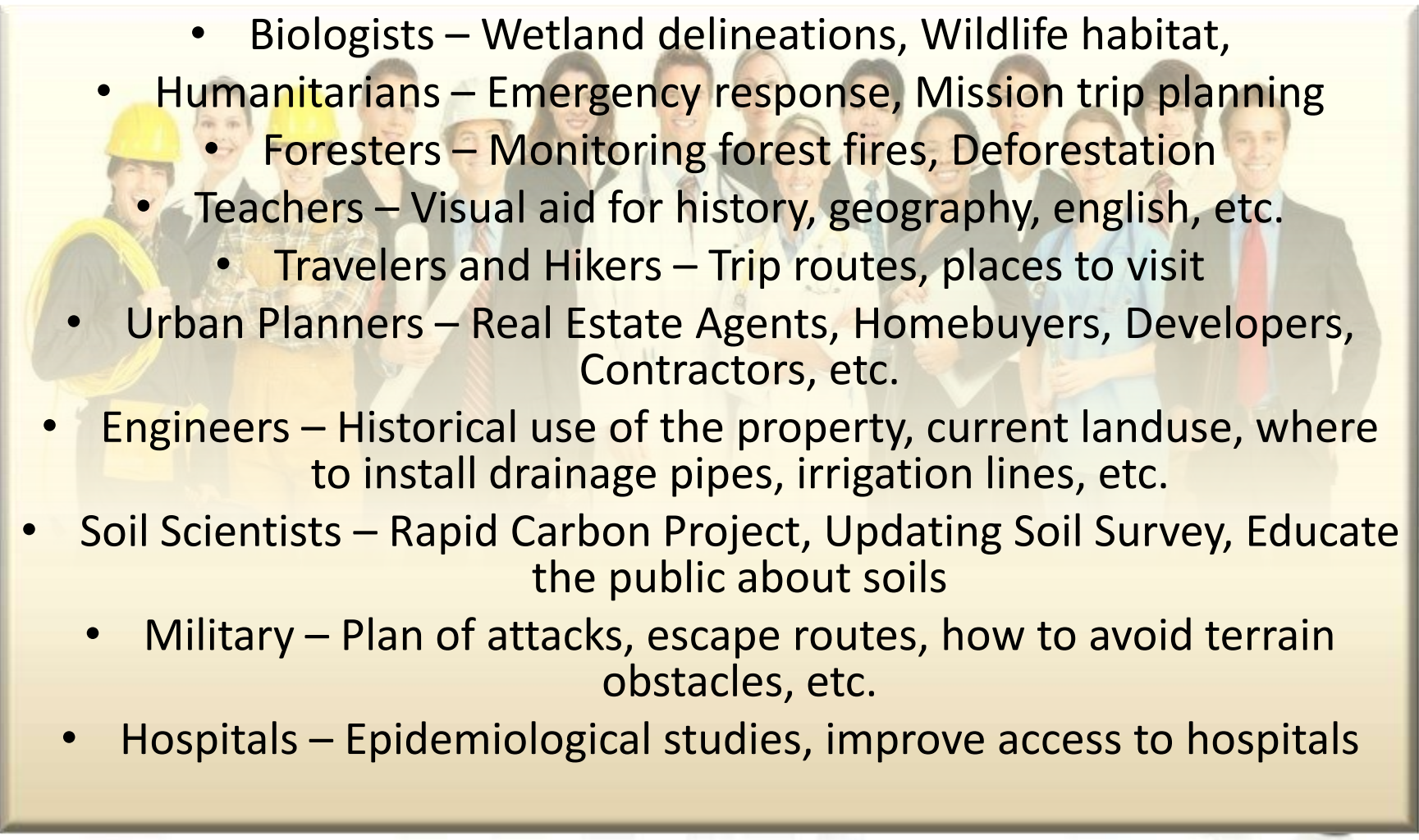
39°41'56.91" N 74°39'42.13" W elev 28 ft



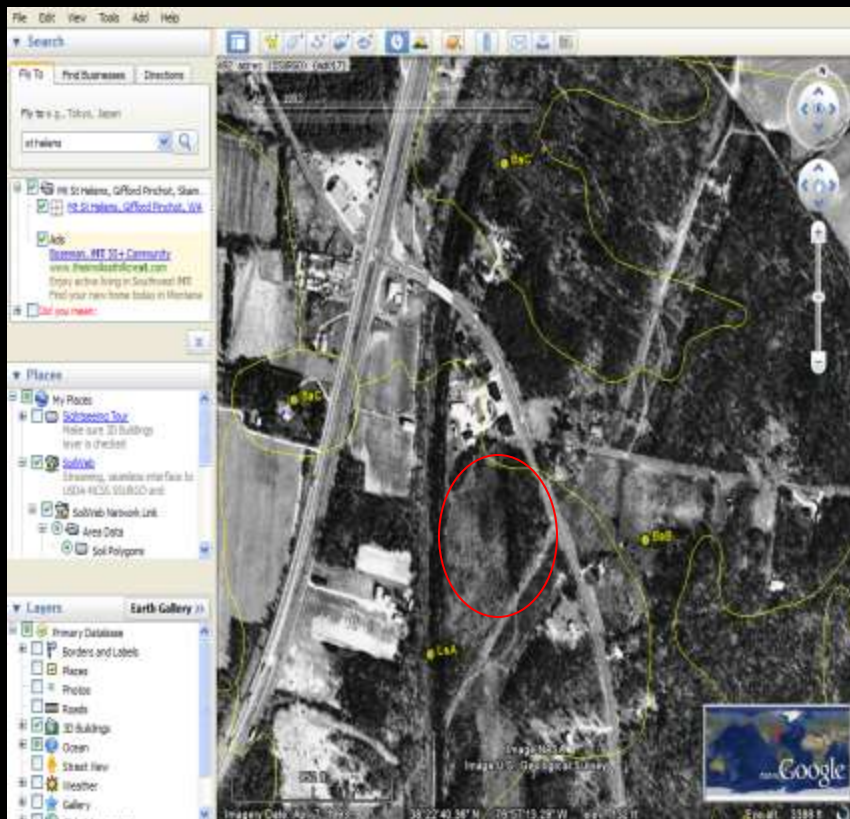


“Google Earth lets you fly anywhere to view satellite imagery, maps, terrain, 3D buildings, galaxies in outer space, and the depths of the ocean.” –Google

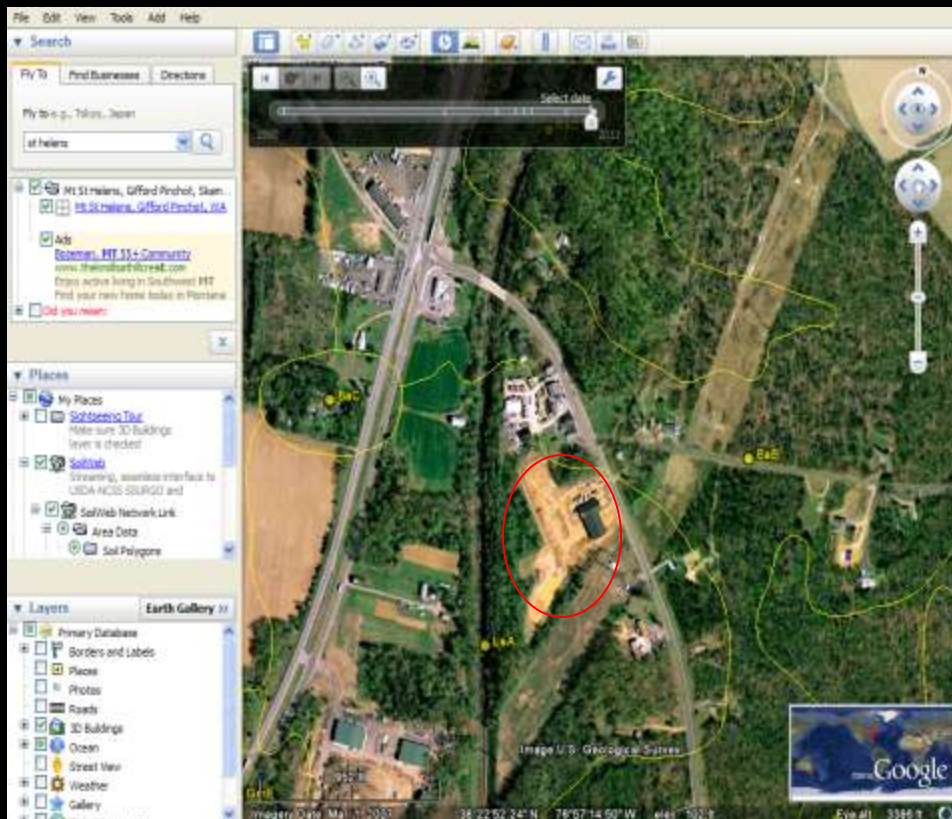
# Who Uses Google Earth?

- 
- Biologists – Wetland delineations, Wildlife habitat,
  - Humanitarians – Emergency response, Mission trip planning
    - Foresters – Monitoring forest fires, Deforestation
    - Teachers – Visual aid for history, geography, english, etc.
    - Travelers and Hikers – Trip routes, places to visit
  - Urban Planners – Real Estate Agents, Homebuyers, Developers, Contractors, etc.
  - Engineers – Historical use of the property, current landuse, where to install drainage pipes, irrigation lines, etc.
  - Soil Scientists – Rapid Carbon Project, Updating Soil Survey, Educate the public about soils
    - Military – Plan of attacks, escape routes, how to avoid terrain obstacles, etc.
    - Hospitals – Epidemiological studies, improve access to hospitals

# HISTORICAL IMAGERY



1993



2011

# Tools available to Google Earth Users

- Ruler
- Points, Lines, and Polygons
- Historical Imagery
- Turn on/off different layers (just like ArcMap)
- Print/Save/E-mail
- View current extent in Google Maps, Get driving directions, Search for nearby businesses
- Record a video
- Flight Simulation
- Import GPS points, tracks, or routes
- Develop and/or Import existing KMZ files to view more information. Example: Soil KMZ file, Fish and Wildlife Service's Wetlands and Riparian KMZ file



Data: SIO, NOAA, U.S. Navy, NGA, GEBCO  
Map data © OpenStreetMap contributors, Imagery © Google

A set of map navigation controls. It includes a scale bar with the number '00/00' and a small square icon. To the left of the scale bar are three circular icons: a red location pin, a compass, and a magnifying glass.

Eye alt 9979.56 mi

# KMZ Files

(Keyhole Markup Language Zip)

- Dylan Beaudette along with his staff at University of California – Davis have developed a KMZ file that links SSURGO and STATSGO data on the Soil Data Mart and NCSS Lab Data to Google Earth.
- The US Fish and Wildlife Service developed their NWI layer into a KMZ file that displays the location, type, size of wetlands habitats to a scale of 1:24,000.

797 ft

Image © 2011 DigitalGlobe  
Image USDA Farm Service Agency

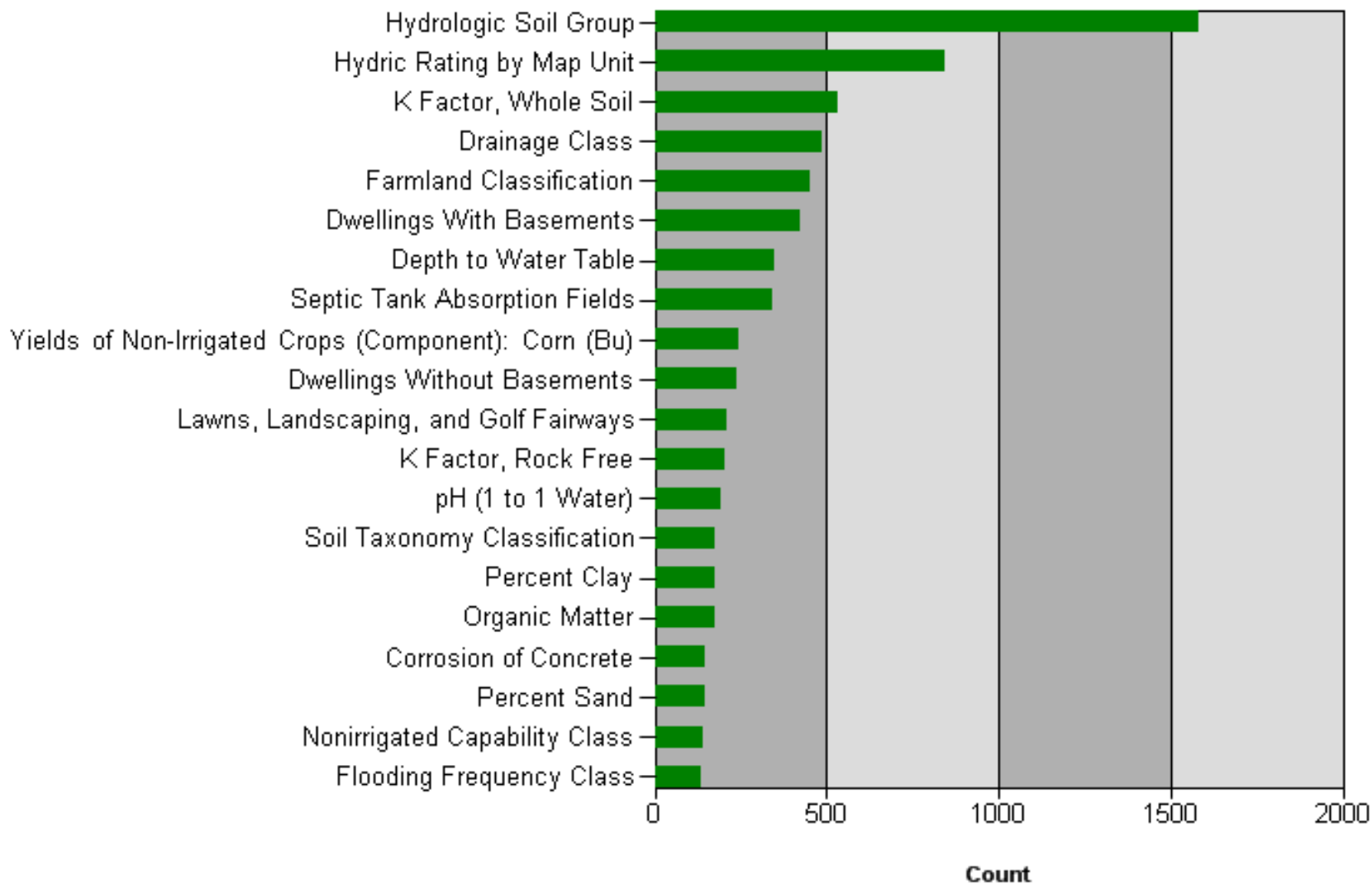
Imagery Date: Jun 8, 2007

36°11'02.87" N 113°07'12.12" W elev 2773 ft

Eye alt 3861 ft

©2010 Google

### Usage of Ratings (Top 20)







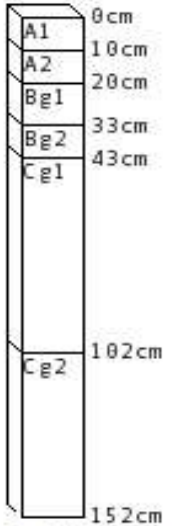
C1386W05

### Potobac-Issue complex, frequently flooded

#### Major Component List:

##### Potobac (70%)

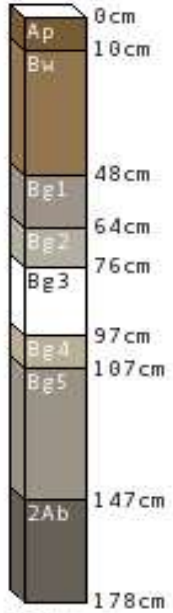
Fluvaquentic Endoaquepts



Potobac-Issue complex,  
frequently flooded  
flood plains  
flood plains

##### Issue (25%)

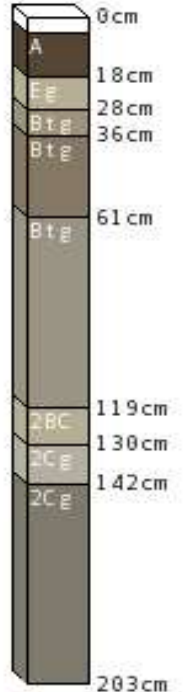
Fluvaquentic Dystrudepts



Potobac-Issue complex,  
frequently flooded  
flood plains  
flood plains

##### Lenni (5%)

Typic Endoaquepts



Potobac-Issue complex,  
frequently flooded  
depressions  
depressions

1345



# California Soil Resource Lab

## Map Unit Composition

Map units consist of 1 or more soil types, commonly referred to as "components".

Component Name	Geomorphic Position	Area Fraction	Component Type	Horizon Data
<a href="#">Soil Type 1 Potobac</a>	<i>flood plains</i> <i>flood plains</i>	70%	Major Soil Type	<a href="#">YES</a>
<a href="#">Soil Type 2 Issue</a>	<i>flood plains</i> <i>flood plains</i>	25%	Major Soil Type	<a href="#">YES</a>
<a href="#">Soil Type 3 Lenni</a>	<i>depressions</i> <i>depressions</i>	5%	<a href="#">Inclusion</a>	<a href="#">YES</a>

Note: links to horizon data marked with an \* are approximate.

## Map Unit Data [What is a Map Unit?](#)

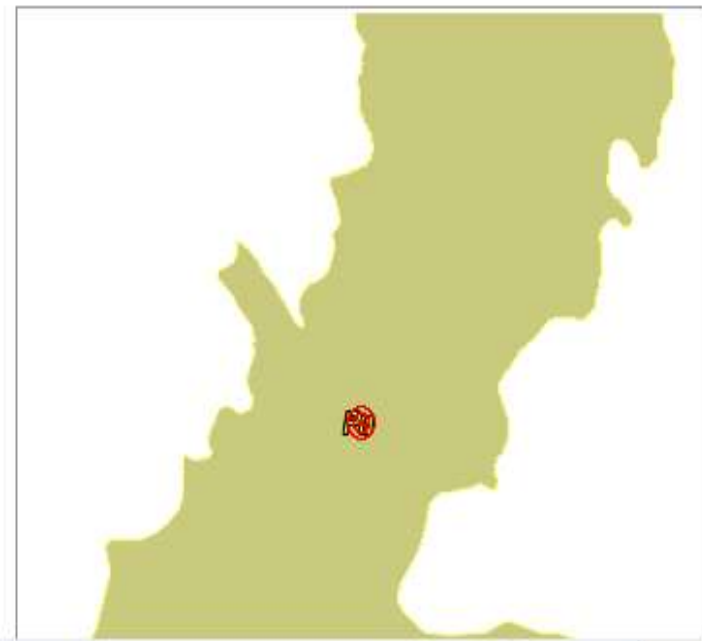
Cartographic information about this map unit.

Map Unit Name:	<i>Potobac-Issue complex, frequently flooded</i>
Map Unit Type:	<a href="#">Complex</a>
Map Unit Symbol:	<i>Pu</i>
Map Unit Acres:	9882 acres (27628ac. total in survey area)
	<a href="#">Raw Map Unit Data</a>
	<a href="#">Raw Component Data (All Components)</a>

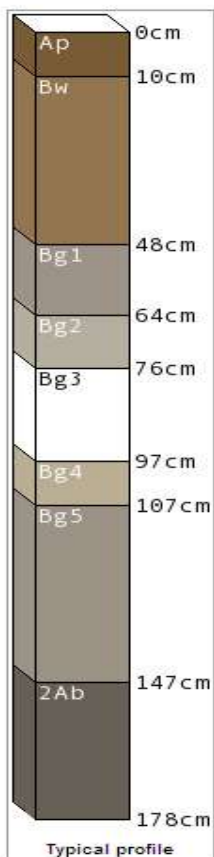
## Map Unit Aggregated Data

Generalized soils information within this map unit.

Farmland Class:	<i>Not prime farmland</i>
Available Water Storage (0-100cm):	<i>15.62 cm</i>
Max Flood Freq:	<i>Frequent</i>
Drainage Class (Dominant Condition):	<a href="#">Poorly drained</a>
Drainage Class (Wettest Component):	<a href="#">Poorly drained</a>
Hydric Conditions:	<i>Partially hydric</i>
Annual Min. Water Table Depth:	<i>13 cm</i>



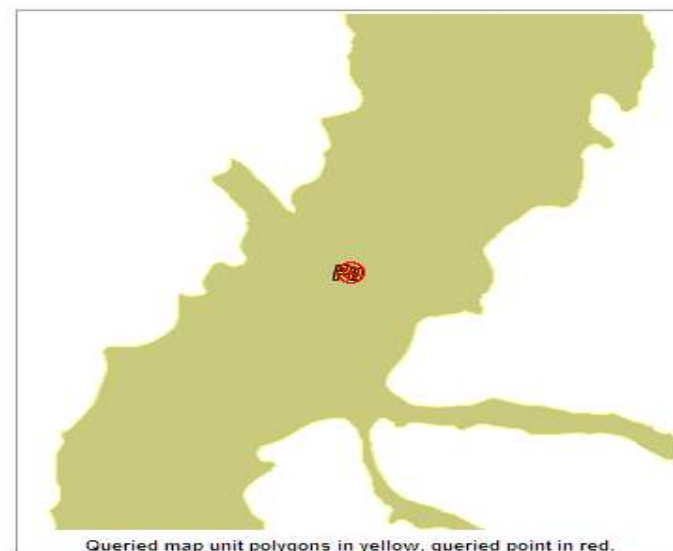
## Soil Taxonomy



Order:	<a href="#">Inceptisols</a>
Suborder:	<a href="#">Udepts</a> <a href="#">[Map of Suborders]</a>
Greatgroup:	<a href="#">Dystrudepts</a>
Subgroup:	<a href="#">Fluvaquentic Dystrudepts</a>
Family:	<a href="#">Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts</a>
Soil Series:	<a href="#">Issue</a> <a href="#">[Link to OSD]</a> <a href="#">[Link to SM Tool]</a>
Data:	<a href="#">[Lab Data]</a> <a href="#">[Nitrate Groundwater Pollution Hazard Index]</a>
Raw Data	<a href="#">Component</a> <a href="#">All Horizons</a>

## Land Classification

<a href="#">Storie Index</a>	NOT RATED
<a href="#">Land Capability Class</a> [non-irrigated]	5-w
<a href="#">Land Capability Class</a> [irrigated]	-
<a href="#">Ecological Site Description</a>	



## Soil Suitability Ratings

<a href="#">Waste Related</a>	<a href="#">Engineering</a>
<a href="#">Urban/Recreational</a>	<a href="#">Irrigation</a>
<a href="#">Wildlife</a>	<a href="#">Runoff</a>

## Hydraulic and Erosion Ratings

<a href="#">Wind Erodibility Group</a>	5
<a href="#">Wind Erodibility Index</a>	56
<a href="#">T Erosion Factor</a>	5
Runoff	Very high
Drainage	Somewhat poorly drained
Hydric Rating / <a href="#">Hydrologic Group</a>	No <a href="#">[Group C]</a>
Parent Material:	loamy alluvium
Profile Water Storage (cm):	31.02

## Soil Suitability Ratings

<a href="#">Waste Related</a>	<a href="#">Engineering</a>
<a href="#">Urban/Recreational</a>	<a href="#">Irrigation</a>
<a href="#">Wildlife</a>	<a href="#">Runoff</a>

## Hydraulic and Erosion Ratings

<a href="#">Wind Erodibility Group</a>	3
<a href="#">Wind Erodibility Index</a>	86
<a href="#">T Erosion Factor</a>	5
<b>Runoff</b>	Very low
<b>Drainage</b>	Well drained
<b>Hydric Rating / <a href="#">Hydrologic Group</a></b>	No <a href="#">[Group B]</a>
<b>Parent Material:</b>	
<b>Profile Water Storage (cm):</b>	16.76

## Geomorphology

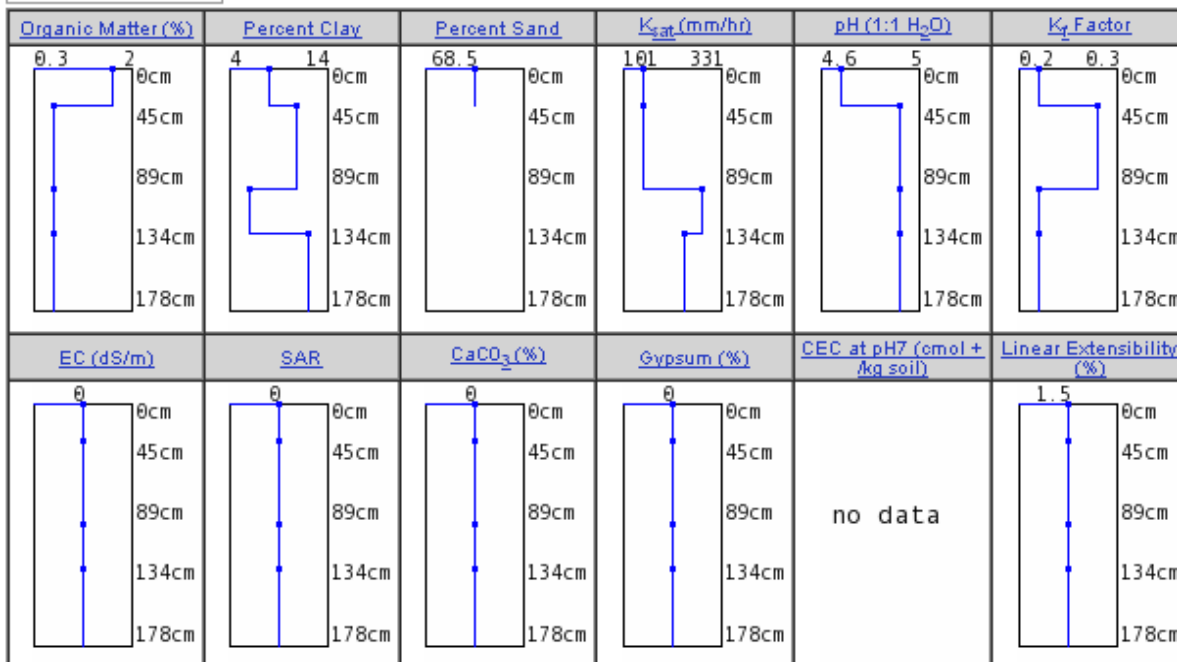
<b>Landform</b>	flats
<b>Landscape</b>	uplands
<b>Landscape</b>	uplands
<b>Landform</b>	flats

## Plants

Symbol	Scientific Name	Common Name	Range Prod.
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203 cm

Typical profile



Established Series  
EHE-SLD-DRPV/Rev. JWB  
06/2007

## POTOBAC SERIES

MLRA(s): 149A (Northern Coastal Plain)  
Depth Class: Very deep  
Drainage Class (Agricultural): Poorly drained  
Landscape: Coastal Plain  
Parent Material: Sandy and loamy fluvial sediments  
Slope: 0 to 2 percent  
Mean Annual Air Temperature (type location): 13 degrees C. (56 degrees F.)  
Mean Annual Precipitation (type location): 1067 mm (42 inches)

**TAXONOMIC CLASS:** Coarse-loamy, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts

**TYPICAL PEDON:** Potobac loam on a wooded floodplain. (Colors are for moist soil unless otherwise indicated.)

**A1**--0 to 10 cm (0 to 4 inches); dark brown (10YR 3/3) loam; weak coarse subangular blocky structure parting to moderate fine subangular blocky; nonsticky, slightly plastic; few fine prominent yellowish red (5YR 4/6) soft masses of iron accumulation along root channels; strongly acid; clear wavy boundary.

**A2**--10 to 20 cm (4 to 8 inches); 60 percent grayish brown (2.5Y 5/2) and 40 percent dark yellowish brown (10YR 3/4) loam; weak, coarse and medium subangular blocky structure; less than 1 percent subrounded mixed gravel; strongly acid; clear wavy boundary. (Combined thickness of the A horizons is 3 to 25 cm)

**Bg1**--20 to 33 cm (8 to 13 inches); olive gray (5Y 5/2) loam; weak coarse subangular blocky structure; nonsticky, slightly plastic; many medium prominent red (2.5YR 5/8) soft masses of iron accumulation; less than 1 percent subrounded mixed gravel; strongly acid; gradual wavy boundary.

**Bg2**--33 to 43 cm (13 to 17 inches); olive gray (5Y 5/2) loam; weak coarse subangular blocky structure; nonsticky, slightly plastic; common coarse prominent reddish brown (5YR 4/4) soft masses of iron accumulation; neutral; abrupt wavy boundary. (Combined thickness of the Bg horizon is 15 to 81 cm)

**Cg1**--43 to 102 cm (17 to 40 inches); dark grayish brown (2.5Y 4/2) sandy loam; massive; nonsticky, slightly plastic; 5 percent, by volume, subrounded mixed gravel; neutral; gradual wavy boundary.

**Cg2**--102 to 152 cm (40 to 60 inches); grayish brown (2.5Y 5/2) very gravelly sand; single grain; nonsticky, nonplastic; 45 percent, by volume, subrounded mixed gravel; neutral

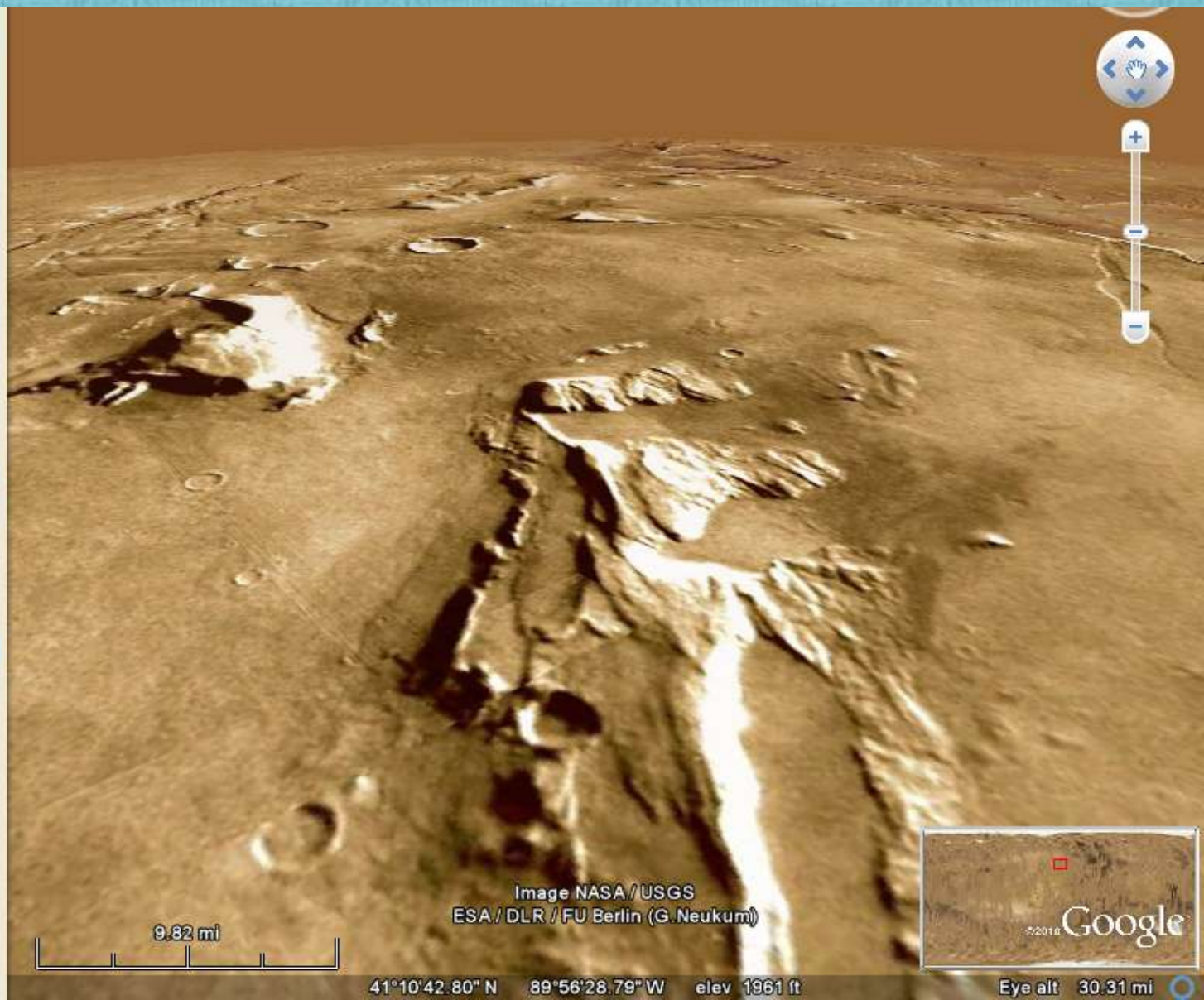
# Bored with Google Earth? How about Google Mars!

**Places**

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - SoilWeb
    - Streaming, seamless interface to USDA-NCSS SSURGO and
  - SoilWeb Network Link
    - Area Data
    - Point Data
    - View Port Area
  - C1314F05
  - C1314F24
  - C1307F91
  - C1307C97

**Layers** Earth Gallery >>

- Primary Database
  - Featured Satellite Images
  - Place Names
- Global Maps
- Spacecraft Imagery
- Mars Gallery
  - Live from Mars
  - Guided Tours
  - Historic Maps
  - Rovers and Landers
  - A Traveler's Guide to Mars



Search

Fly To

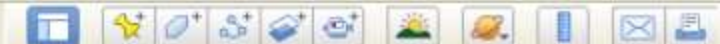
Fly To e.g., Sea of Tranquity

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - SoilWeb
    - Streaming, seamless interface to USDA-NCSS SSURGO and
  - SoilWeb Network Link
    - Area Data
    - Point Data
    - View Port Area
  - C1314F05
  - C1314F24
  - C1307F91
  - C1307C97

Layers Earth Gallery >>

- Ranger 6 (1964)
- Ranger 7 (1964)
- Ranger 8 (1965)
- Ranger 9 (1965)
- Lunar Orbiter 1 (1966)
- Lunar Orbiter 2 (1966)
- Lunar Orbiter 3 (1966)
- Surveyor 1 (1966)
- Surveyor 2 (1966)
- Lunar Orbiter 5 (1967)
- Surveyor 3 (1967)
- Surveyor 4 (1967)
- Surveyor 5 (1967)
- Surveyor 6 (1967)
- Surveyor 7 (1967)



36302888286 acres (NO SURVEY)



Search

Search the Sky  Location Search

e.g., Leo, Andromeda Galaxy, NGC 3628

Places

- My Places
  - Sightseeing Tour  
Make sure 3D Buildings layer is checked
  - SoilWeb  
Streaming, seamless interface to USDA-NCSS SSURGO and
  - SoilWeb Network Link
    - Area Data
    - Point Data
    - View Port Area
  - C1314F05
  - C1314F24
  - C1307F91
  - C1307C97

Layers

- Sky Database



1.64006856043 acres (NO SURVEY)





# Credits

- <http://casoilresource.lawr.ucdavis.edu/drupal/>
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- <http://www.fws.gov/wetlands/Data/GoogleEarth.html>