



Integration of OpenStreetMap into ArcGIS

Al Pascual

What's ArcGIS for OpenStreetMap?

ArcGIS Editor for OpenStreetMap

Edit OpenStreetMap using the rich editing experience of ArcGIS

- Download portion of OSM to local geodatabase.
- Editing experience leveraging ArcGIS templates.
- Uploading change sets to OSM



Road Ahead – ArcGIS Editor for OpenStreetMap

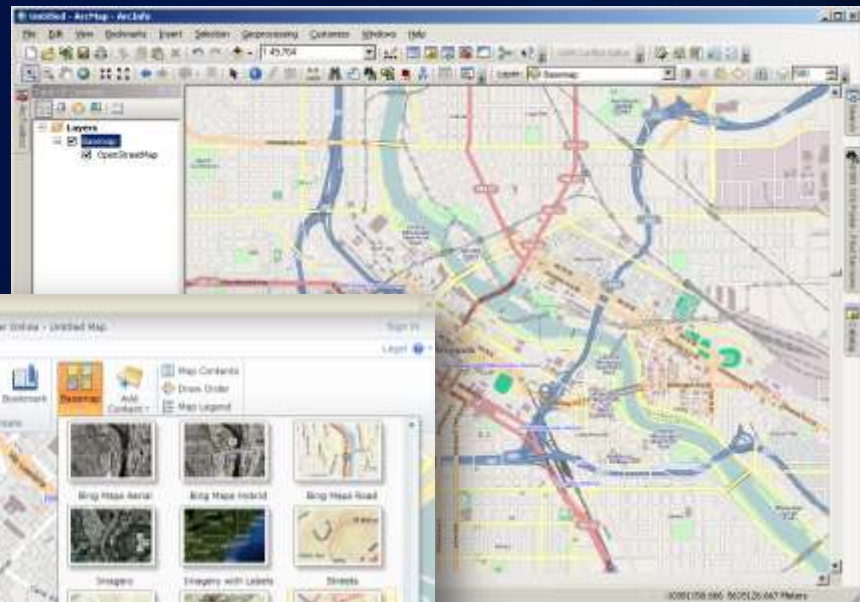
- Version 1.1 released April
- Version 2.0 alpha released now
- Download: <http://esriurl.com/OSMEditor>

OpenStreetMap in ArcGIS

Flex Viewer



ArcGIS Desktop



ArcGIS Explorer Online

OpenStreetMap in ArcGIS Server 10



Worldwide, shared data...

Free to take & use

Free to find & give



Improvements.

- Quickly set up an ArcGIS Server feature service to allow users to edit a particular part of OSM
- Edit the OSM map using a variety of clients – mobile, web, desktop
- Performance Enhancements

Demo

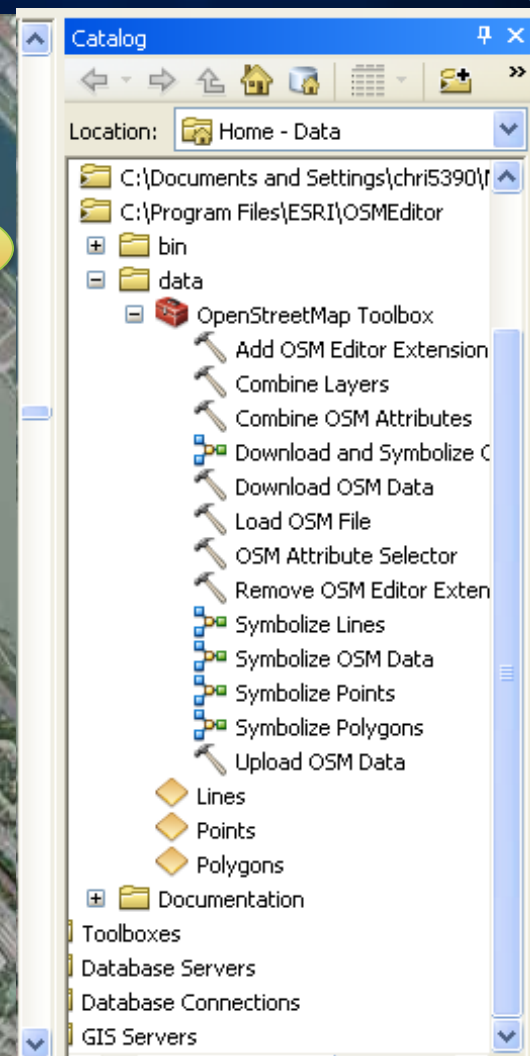
Desktop

Web

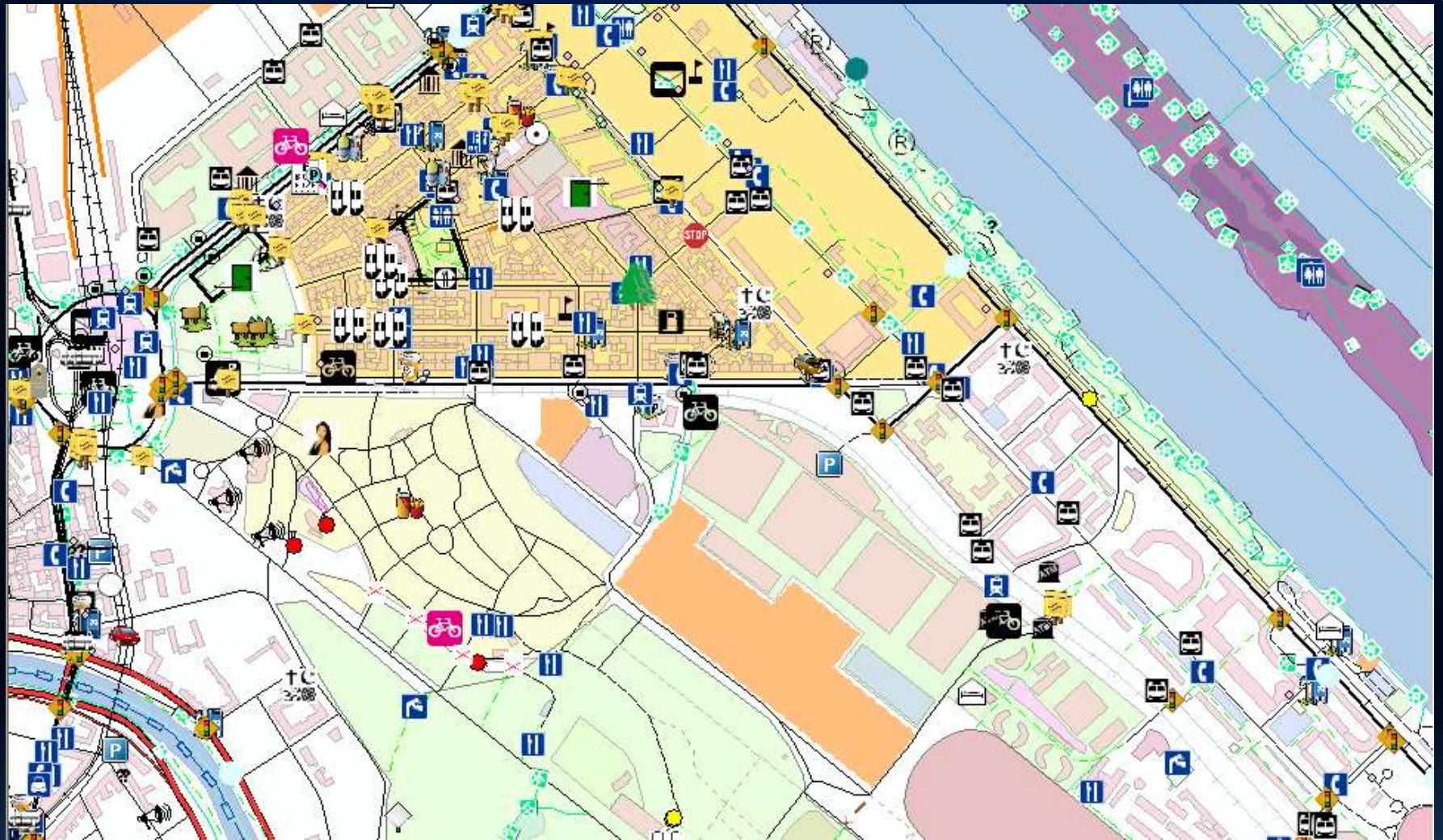
Desktop demo

ArcGIS Editor for OpenStreetmap

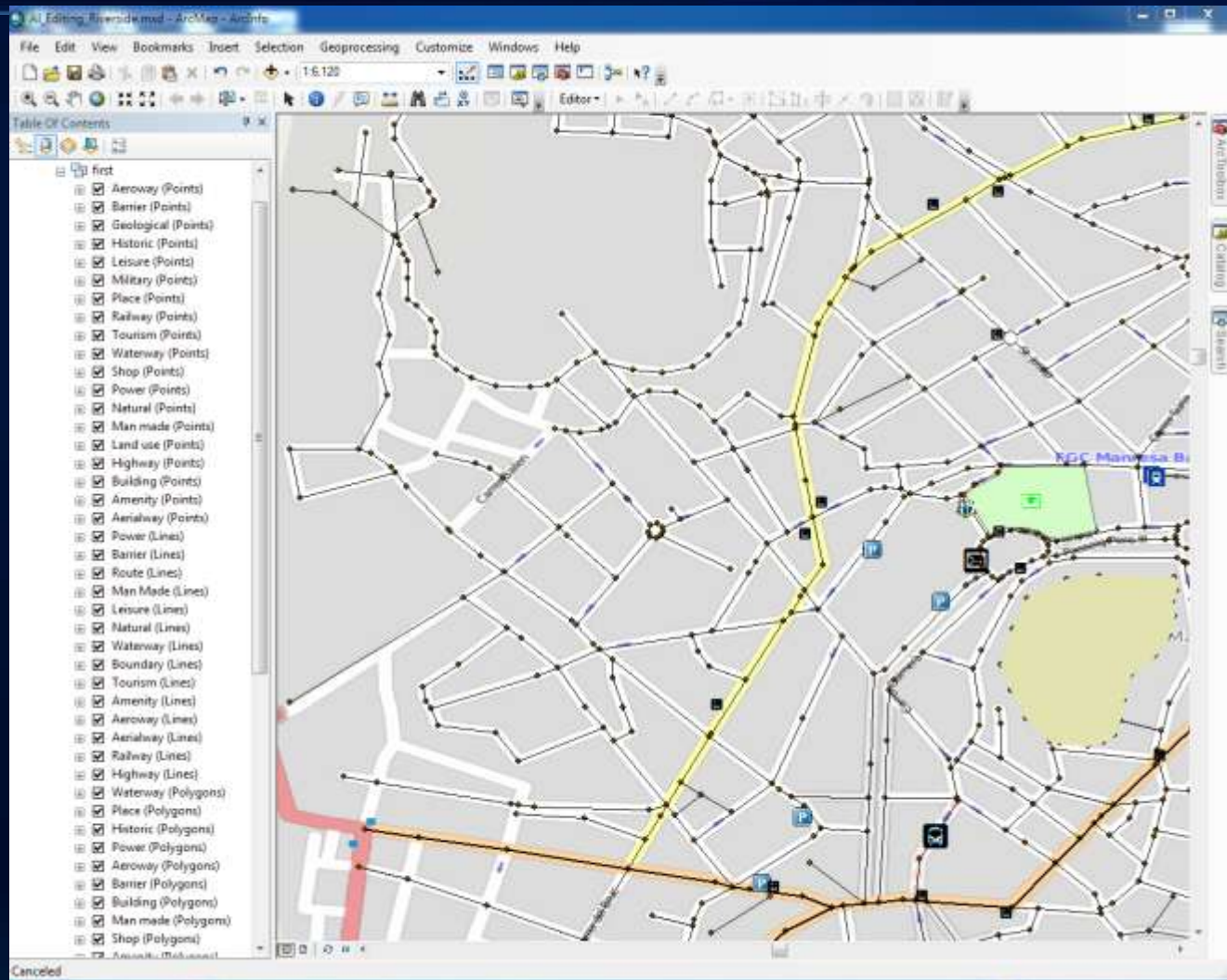
Download and Symbolize



ArcGIS Editor for OpenStreetmap

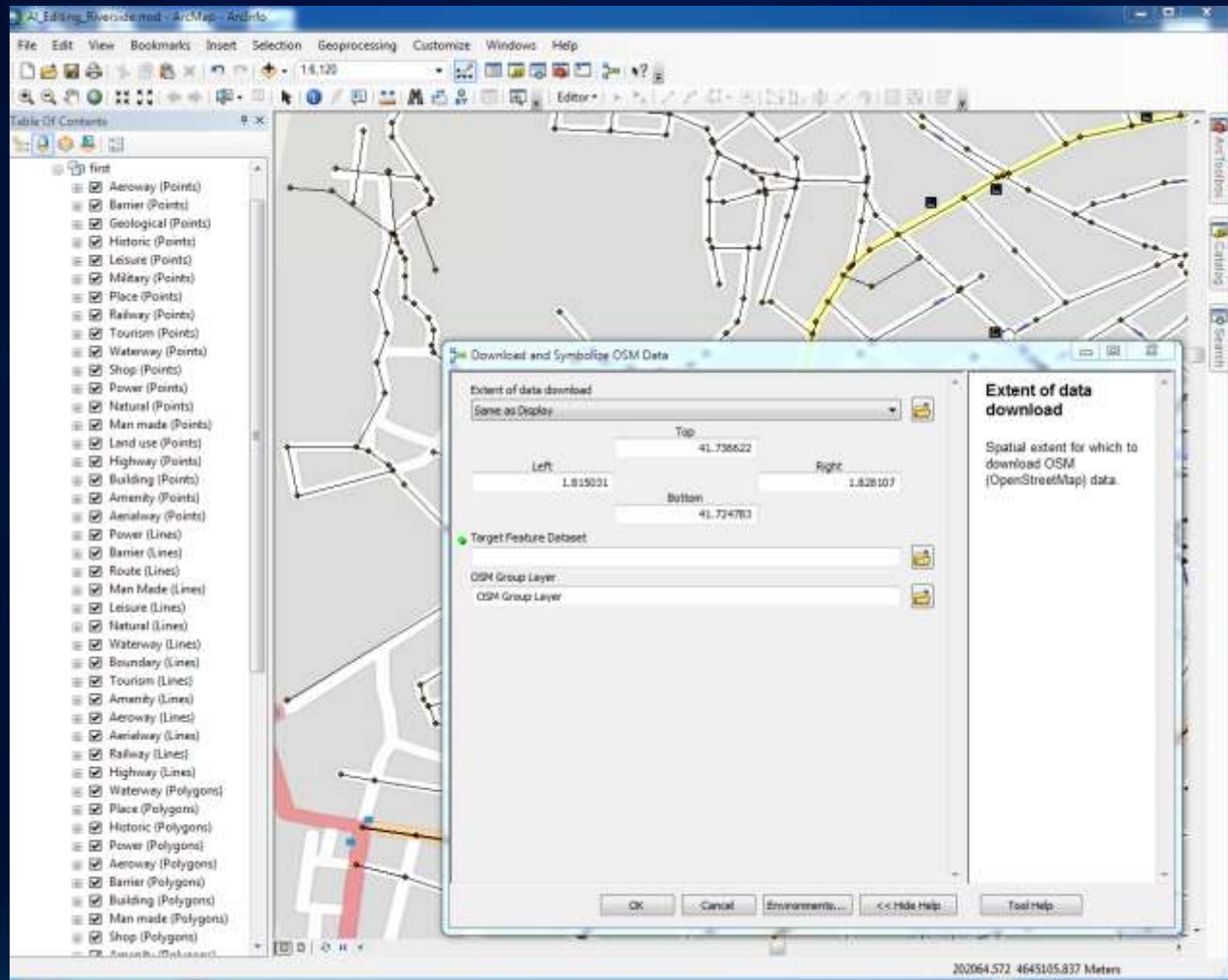


ArcMap and OSM



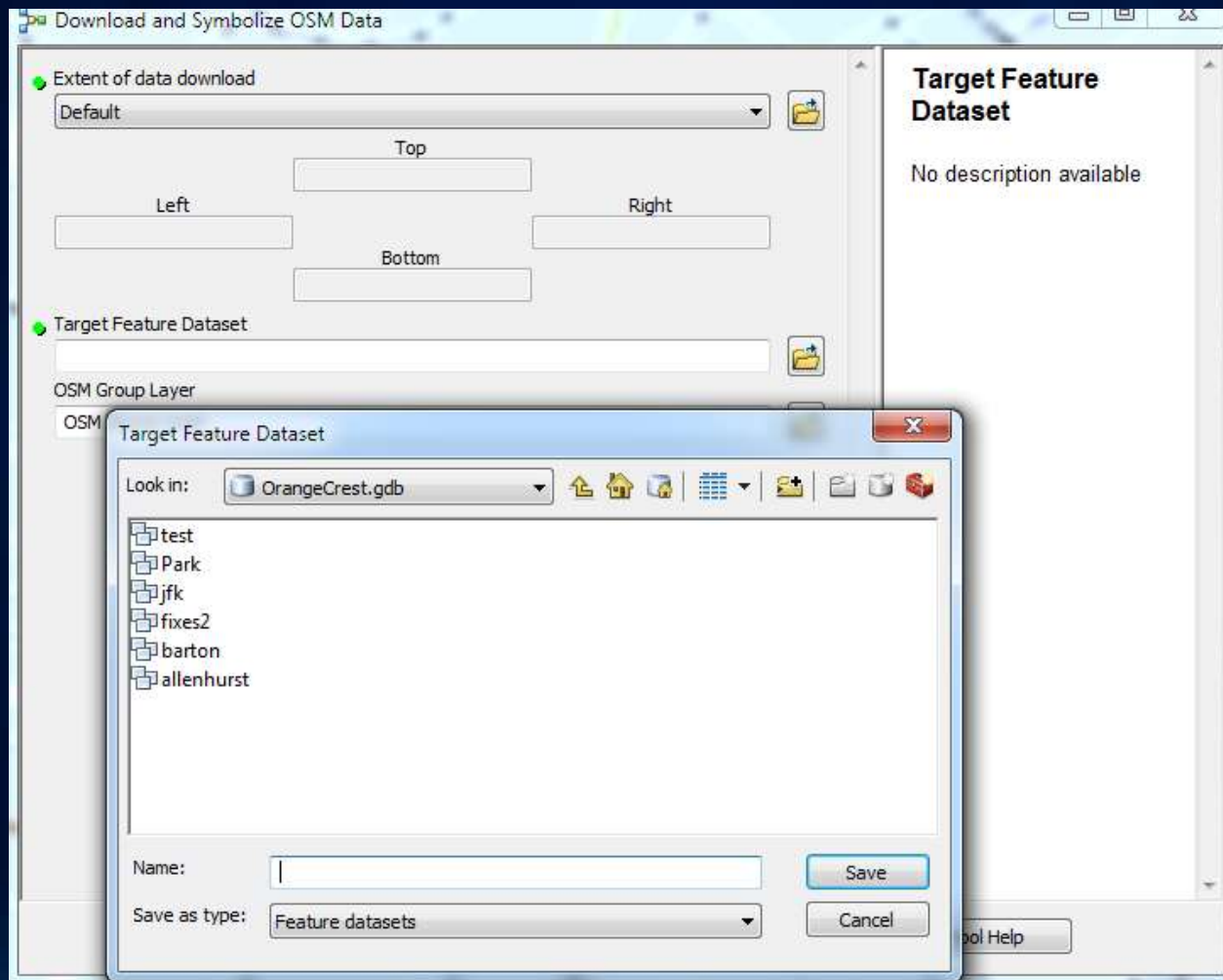
Map data (c) OpenStreetMap (and) contributors, CC-BY-SA

Downloading OSM data



Map data (c) OpenStreetMap (and) contributors, CC-BY-SA

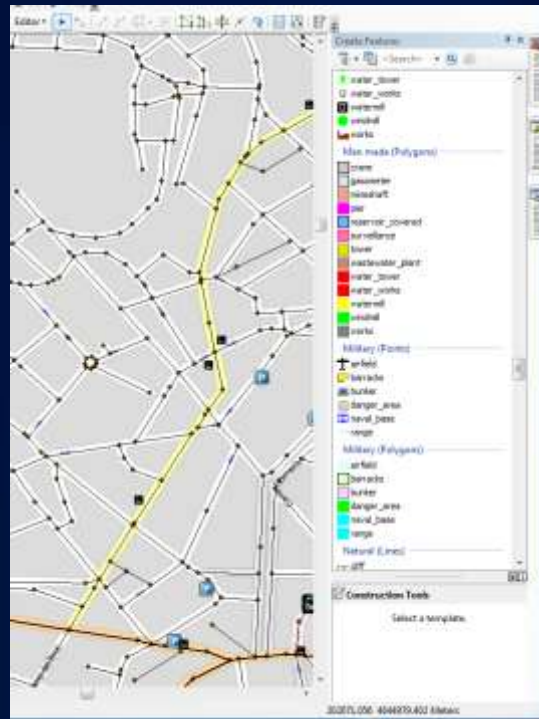
Selecting a Feature Class



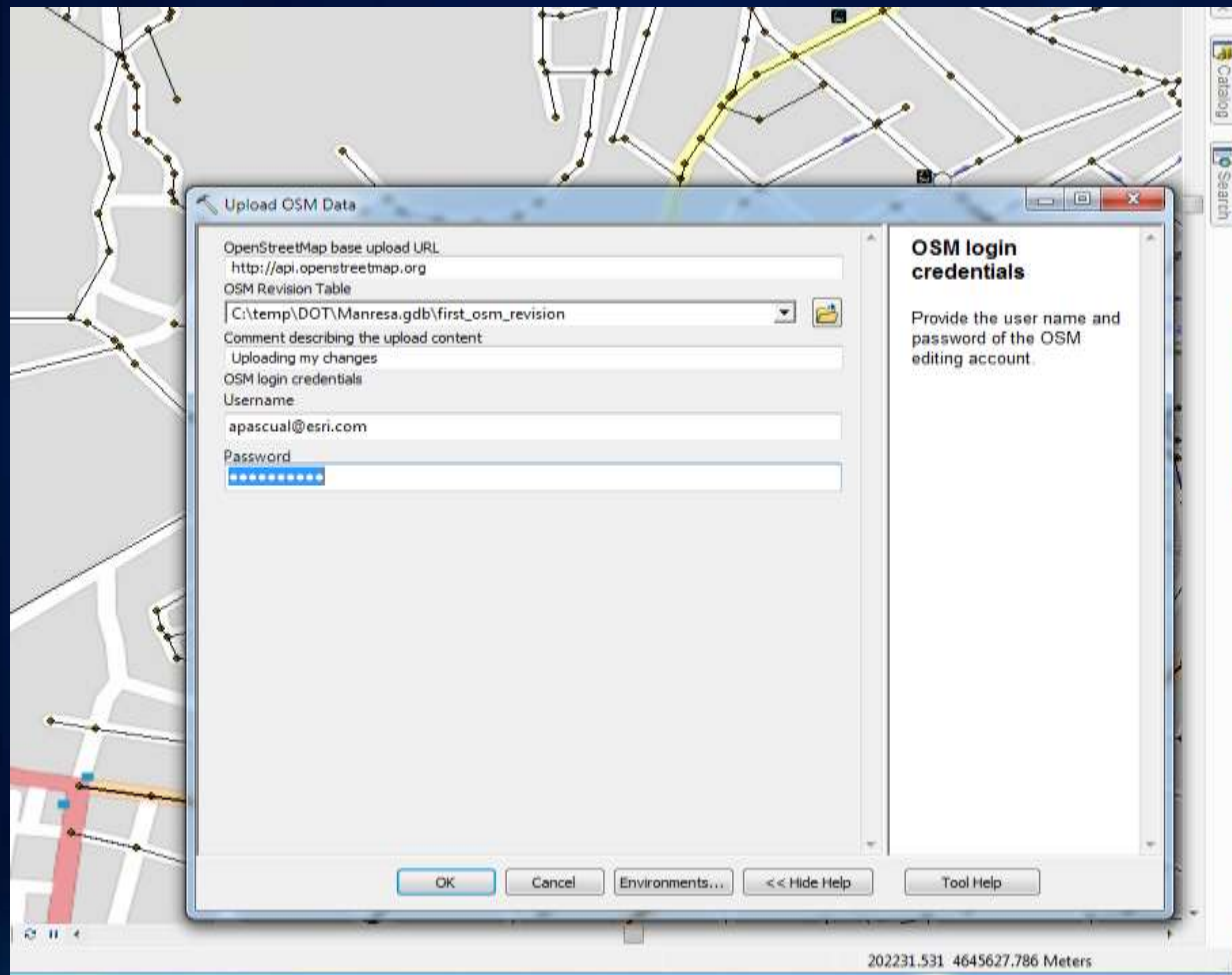
Creating a Feature class

Target Feature Dataset	
C:\temp\DOT\OrangeCrest.gdb\NewFeatureClass	
OSM Group Layer	
OSM Group Layer	

Editing OSM Data in ArcMap



Uploading a Feature Class



Where to Download?

<http://esriosmeditor.codeplex.com>



ArcGIS Server 10

Create new Feature Service

[< Back to list](#)

What

Zoom and pan the map to the area you want to retrieve data from OpenStreetMap for. More data means longer download times.



© [OpenStreetMap](#) contributors, [CC-BY-SA](#)

How

How do you plan storing this data? Do you want to synchronize with OpenStreetMap?

Name the feature service:

Got a special template in mind?

Minimal

☐ Synchronize with OpenStreetMap?

Create service

[Cancel](#)

Extent selected:

Create new Feature Service

[< Back to list](#)

What

Zoom and pan the map to the area you want to retrieve data from OpenStreetMap for. More data means longer download times.



© [OpenStreetMap](#) contributors, [CC-BY-SA](#)

Extent selected:

How

How do you plan storing this data? Do you want to synchronize with OpenStreetMap?

Name the feature service:

SotMTest

Got a special template in mind?

Emergency ▾

☒ Synchronize with OpenStreetMap?

Your OpenStreetMap username

apascual@esri.com

Your OpenStreetMap password

●●●●●●●●

Refresh interval (minutes):

5 Minutes ▾

Create service

[Cancel](#)

Create new Feature Service

[< Back to list](#)

What

Zoom and pan the map to the area you want to retrieve data from OpenStreetMap for. More data means longer download times.



© [OpenStreetMap](#) contributors, [CC-BY-SA](#)

Extent selected:

-13060410 46 4014463 53 -

How

How do you plan storing this data? Do you want to synchronize with OpenStreetMap?

Name the feature service:

SotMTest

Got a special template in mind?

Emergency ▾

☒ Synchronize with OpenStreetMap?

Your OpenStreetMap username

apascual@esri.com

Your OpenStreetMap password

●●●●●●●●

Refresh interval (minutes):

5 Minutes ▾

Create service

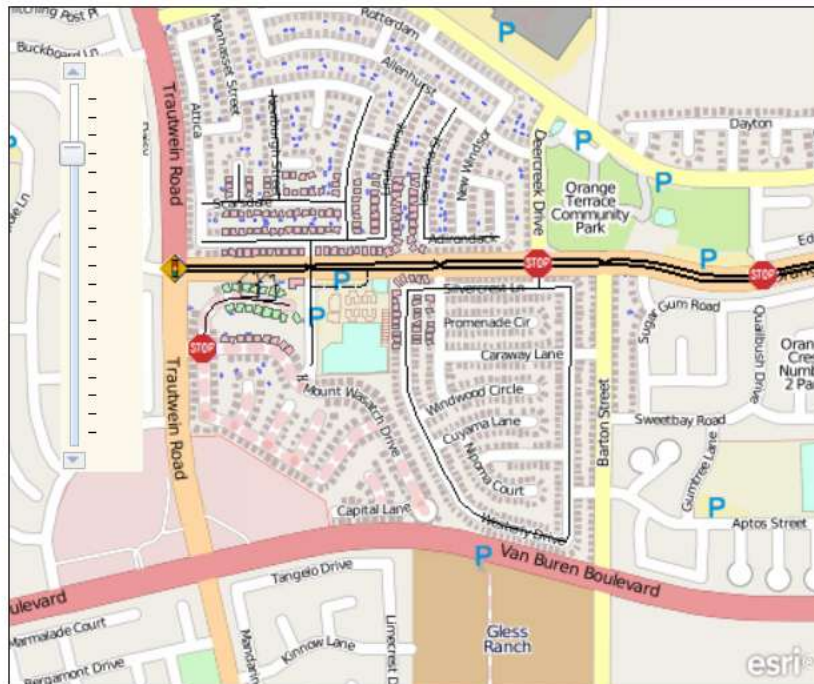
[Cancel](#)



Download Complete

[< Back to list](#)

Content



Links

Feature Service:

http://osmdev/arcgis/rest/services/54bcc969-e939-4364-9d39-97470177e4a1_Emergency/FeatureServer

Map Service:

http://osmdev/arcgis/rest/services/54bcc969-e939-4364-9d39-97470177e4a1_Emergency/MapServer

[Edit Feature Service](#) | [ArcGIS.COM](#)

 [http://osmdev/arcgis/rest/services/54bcc969-e939-4364-9d39-97470177e4a1_Emergency \(FeatureServer\)](http://osmdev/arcgis/rest/services/54bcc969-e939-4364-9d39-97470177e4a1_Emergency (FeatureServer))     54bcc969-e939-436... 

 ArcGIS API for Microsoft S...  Web Pages - All Staff  Editor usage stats - Open...

ArcGIS Services Directory

[Home](#) > [54bcc969-e939-4364-9d39-97470177e4a1_Emergency \(FeatureServer\)](#)

54bcc969-e939-4364-9d39-97470177e4a1_Emergency (FeatureSe

View In: [ArcGIS.com Map](#)

Service Description: 54bcc969-e939-4364-9d39-97470177e4a1_Emergency

Layers:

- [Highway \(Points\)](#) (0)
- [Building \(Points\)](#) (1)
- [Route \(Lines\)](#) (2)
- [Aeroway \(Lines\)](#) (3)
- [Highway \(Lines\)](#) (4)
- [Barrier \(Polygons\)](#) (5)
- [Building \(Polygons\)](#) (6)
- [Highway \(Polygons\)](#) (7)

Tables:

Supported Interfaces: [REST](#) [SOAP](#)

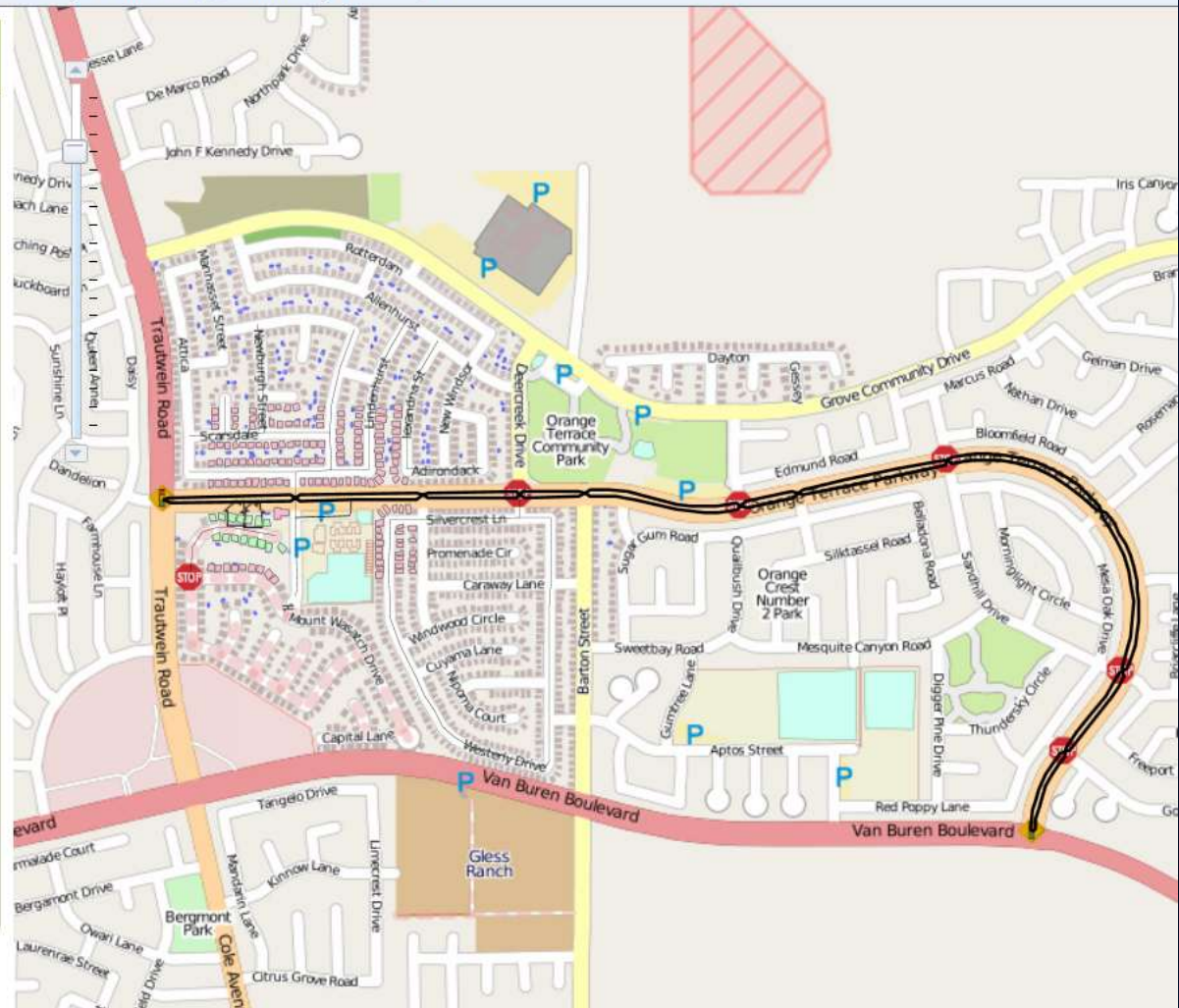
Default Editor

Highway (Points)

- crossing
- emergency_at
- platform
- motorway_jun
- mini_roundabx
- ford
- services
- traffic_signals
- bus_stop
- passing_place
- turning_circle
- stop
- speed_camera

Building (Points)

-
-





Default Editor

taxiway

runway

Highway (Lines)

road

trunk

unclassified

pedestrian

primary_link

footway

raceway

platform

motorway

residential

trunk_link

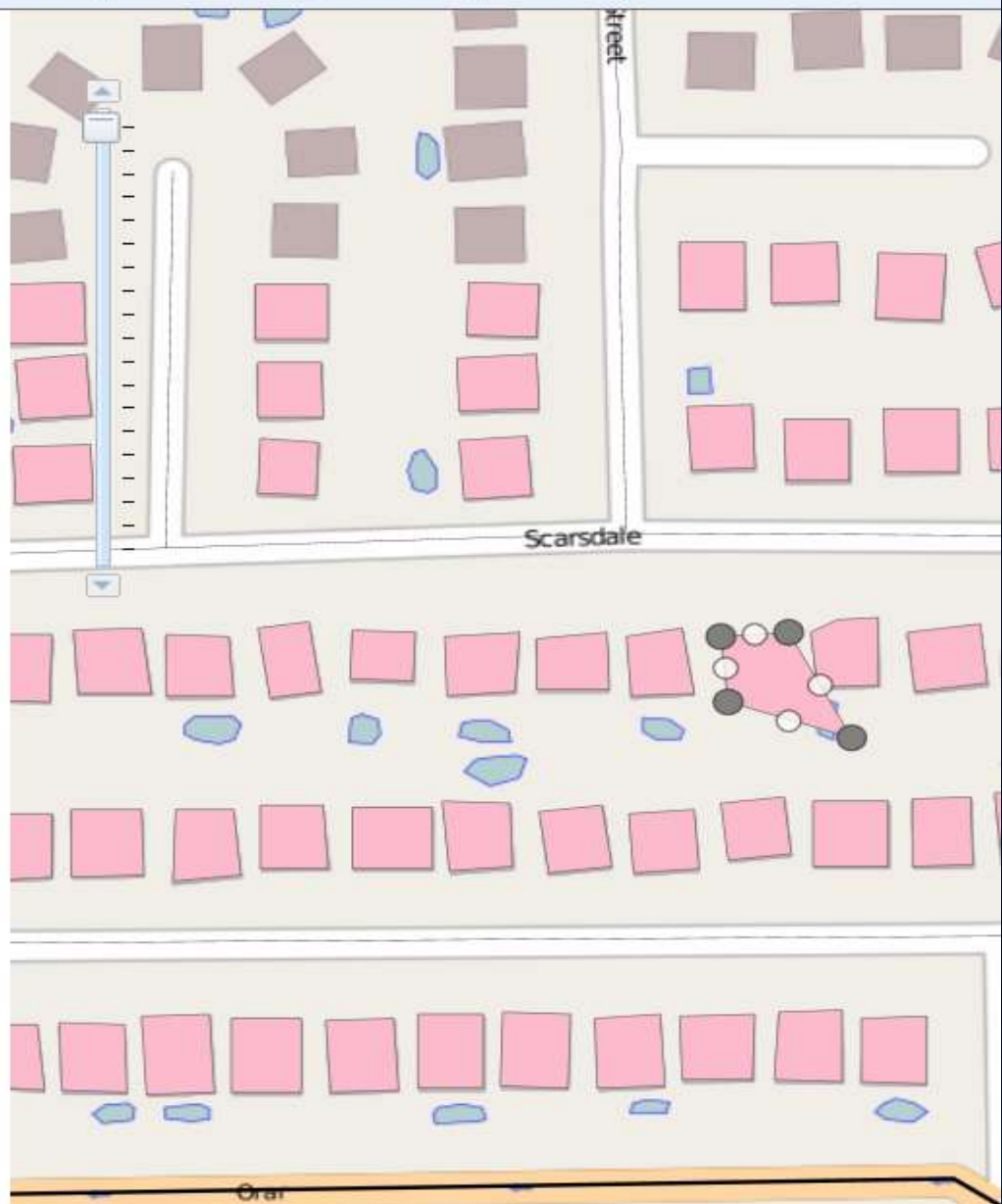
secondary

steps

service

cyclewav

motorway link



All source Code uploaded and up to date



ArcGIS Editor for OpenStreetMap

[Home](#)[Downloads](#)[Documentation](#)[Discussions](#)[Issue Tracker](#)[Source Code](#)[People](#)[License](#)

[Check-ins](#) | [Patches](#) | [Upload Patch](#)

Change Set	Date	Downloads	Comment
67828 by albertpascual	Mon at 11:32 AM	3	Includes initial cut of server and desktop installers for version 2.0
67827 by albertpascual	Mon at 11:21 AM	0	Includes initial cut of server and desktop installers
67351 by albertpascual	Jun 24 at 1:12 PM	40	Adding the ArcGIS Editor for OpenStreetMap 2.0 Initial commit. Includes the Server in MVC 3 and Razor a
64275 by temge	Apr 20 at 2:57 PM	70	Associated with Release: ArcGIS Editor for OpenStreetMap 1.1. apply geometry filter on the Symbolize OSM data model and remove the RC entry from the upload tool

Installer for 1.1 available as well



The screenshot shows the project page for "ArcGIS Editor for OpenStreetMap" on the CodePlex website. The browser address bar shows the URL <http://esriosismeditor.codeplex.com/>. The page features a logo with a globe and a pencil, and a navigation menu with links to Home, Downloads, Documentation, Discussions, and Issue Tracker. The main content area includes links for "View All Comments", "Print View", "Page Info", and "Change History (all pages)". It describes the tool's purpose for ArcGIS Desktop 10 users and provides instructions on downloading data from OpenStreetMap servers. A section for "Recent reviews" shows a 5-star rating from "arcmap Google Earth".

[View All Comments](#) | [Print View](#) | [Page Info](#) | [Change History \(all pages\)](#)

The ArcGIS Editor for OpenStreetMap is designed to help ArcGIS Desktop 10 users to become active contributors to the OpenStreetMap project.

The provided tools allow you to download data from the [OpenStreetMap](#) servers and store it locally. You can then edit the data and upload the changes to OSM to make them available to all OSM users.

This site provides access to the released versions of the ArcGIS Editor for OpenStreetMap (OSMEd).

Last edited Jul 7 at 3:02 PM by [eggwhites](#), version 9.

[Home](#)

★ 28 people are following this project ([follow](#))

 **Download**

CURRENT	ArcGIS Editor for OpenStreetMap 1.1
DATE	Wed Apr 20 2011
STATUS	Stable 
RATING	★★★★★ 1 rating
	2351 downloads
MORE	View all downloads

Recent reviews ([more](#))

★★★★★ arcmap Google Earth

Activity  30 days

http://esriosmeditor.codeplex.com/team/view

ArcGIS Editor for OpenStreetMap

Home

Downloads

Documentation

Discussions

Issue Tracker

Source Code

People

People

Coordinators

[eggwhites](#)
Project Member since Feb 2 2011

[mhogeweg](#)
Project Member since Jul 9 2010

Developers

[agup](#)
Project Member since Jul 9 2010

[albertpascual](#)
Project Member since Jul 9 2010

[CraigCleveland](#)
Project Member since Dec 14 2010

[rbblis](#)
Project Member since Jun 28 2011

[rjhale1971](#)
Project Member since Sep 9 2010

[temge](#)
Project Member since Jul 9 2010

Recent Followers

[vestanbul](#)
Follower since Jun 7 2011

[D_Guidi](#)
Follower since Jun 7 2011

[gcapnias](#)
Follower since Jun 5 2011

[ykominami](#)
Follower since May 6 2011

[deelesh](#)
Follower since May 5 2011

Contribute

<http://esriosmeditor.codeplex.com/>



esri