

Accessing the FDOT Aerial Photography Archive Collection



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Image Services

CO-Surveying & Mapping Office

Good Afternoon everyone and thank you for attending this session.

Please mute your phones

Introduction

- ◆ Who we are
- ◆ FDOT Aerial Photography Archive
- ◆ Image Services Website
- ◆ Aerial Photo Look Up System (APLUS)
- ◆ CAD
- ◆ GIS
- ◆ Future Plans



Who We Are

- ◆ Located in Tallahassee
- ◆ Custodians for FDOT's Aerial Photography
- ◆ Aerial Surveying Standards
 - ✓ FDOT Procedure 550-020-002

Section 2.3

"A copy of all imagery products collected and produced for the Department are to be sent to the Central Surveying and Mapping Office together with an image index and metadata files of the final map images for the project. The final map images will be stored and maintained in the Department's Aerial Photography Archive Collection (APAC)."



We are located in Tallahassee and will soon return to the Burns Bldg after 41 years of being in satellite offices.

Hours are from 8 am to 5 pm EST

Image Services is part of the Geographic Mapping Section and is custodian of the Aerial Photo Archive. Our counterparts, GIS/CAD is responsible for the State Map, County Highway maps and specialty maps.

As custodians, we are guided by Florida Public Records and FDOT procedures.

About the FDOT Archive

◆ Film Vault

- ✓ 2857 roles
- ✓ Oldest roll 1946
- ✓ B/W, Color, IR

◆ Digital Archive

- ✓ 6.4 TB and growing
- ✓ 1 million+ files
- ✓ Format – MrSid, JPG, TIF
- ✓ B/W, Color, Color IR



Approximately 700,000 negatives

Over 1 million digital files.



This is a 2012 image of downtown Miami

And here is an example of an image for our oldest dataset, Miami 1946.



The first of May, FDOT implemented their new website design.

Have you had a chance to visit the new site?

We took this opportunity to update the Image Services web pages so if you have us bookmarked they will need to be updated.

NOTE:

We recently starting calls about Internet Explorer 10 users getting errors when trying to open APLUS. Turns out there is a compatibility setting you must check so v10 is backwards compatible with older websites. We have a provided a link to the Microsoft help page for this setting.

Here is the page you will use to launch the Aerial Photo Look Up System or APLUS. I would actually like to start from the bottom because there is some useful information I want to point out to you.

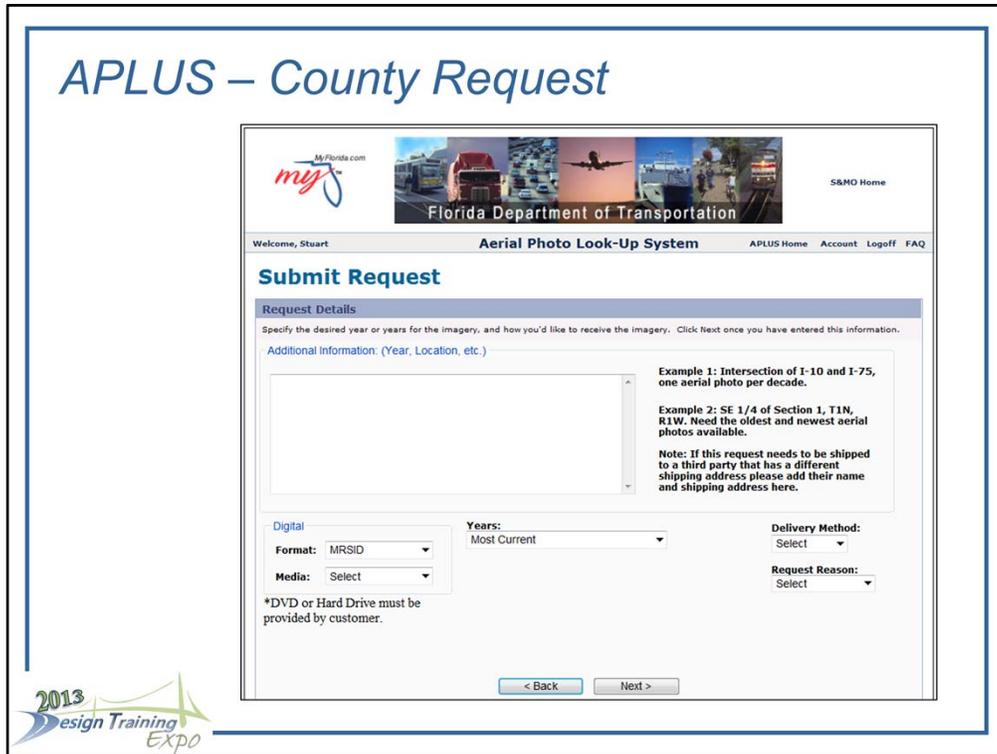
First is a list of data that is available through APLUS, by County and Year. The year is linked to the respective Photo index map.

Second is a map of the most current aerials. 2013 datasets are now rolling in so this map will be changing.

Entire State

Entire County

NEXT



Here is the interface for ordering county datasets or the complete state.

Simply check the county or counties that you want. You can also select the ALL button to request the entire state.

Due to limited FTP space and number of requests, we will only put **2 county datasets** per request on FTP at one time.

After **48 hours**, we will delete the data to allow other requests to be filled or to continue with your request.

For statewide coverage we require that you send at least a **500 GB hard drive**.

NOTE: Imagery is very popular which is causing resolution to be better. With better resolution, datasets are growing. It is recommended that you send a hard drive for large requests.

CLICK ANIMATION

Here is where you will fill in your specific needs.

Once submitted, you will receive a request number via email.

Turn around is usually less than **a day** but depending on demand it may take longer.

Getting Aerials

www.dot.state.fl.us/surveyingandmapping/aerial_get.shtm



Florida Department of
TRANSPORTATION

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Surveying & Mapping

Surveying & Mapping Office / Aerial Photography Archive / Get Aerials

Get Aerials



ALERT:
If you are using **Internet Explorer 10** please make sure that **Compatibility View Settings** is enabled. For more information about **Compatibility View Settings** please visit **Microsoft Windows Help page**.

For further assistance please contact **Image Services** at **850-245-1555** or email imageservices@dot.state.fl.us

To search, request or download aerials, please choose from one of the following 3 choices:

	<p>Area of Interest For requesting aerials of a parcel, a particular address or a irregular areas. Most requests will allow customer to download data directly to their computer. Request for larger areas will be place on our FTP.</p>
	<p>Entire County To request one or more counties. County Datasets will be placed on our FTP for download. Requests for 3 or more counties may require customers to send in an external hard drive.</p>
	<p>Entire State Used to request all 67 counties. Customers will be required to send an external hard drive with a 500 GB capacity (min.)</p>
	<p>Most Current Aerials A map of the latest available county aerial datasets by year. (PDF)</p>
	<p>Photo Index List A list of photo indexes by county and available years. (PDF)</p>



Area Of Interest is for those that only need a smaller area like a parcel or a section.

APLUS – Area of Interest (AOI)



Zoom Tools

Layers

Steps: Sketch, Save, Submit.

APLUS – Area of Interest (AOI)

The screenshot shows the APLUS web interface. At the top, there is a navigation bar with the 'myfla' logo, the Florida Department of Transportation logo, and links for 'S&MO Home', 'APLUS Home', 'Register', and 'FAQ'. The main heading is 'Submit Request'. Below this, there is a 'Select Images' section with the text: '41 aerial images were found. Click the checkbox next to an image to request it and press the 'Next' button to continue.' A table lists the images with columns for 'Acquired', 'Resolution', 'Type', 'Size (MB)', and 'Name'. The table contains 11 rows of data. At the bottom of the table, there is a 'Filter By Year(s) Available:' dropdown menu with options for 2011, 2008, 2006, and 2005, a 'Refresh' button, a checkbox for 'Check/Uncheck Current Filtered Items', and a 'Records Per Page:' dropdown menu set to 10.

	Acquired	Resolution	Type	Size (MB)	Name
<input type="checkbox"/>	1/23/2011	1 ft	RGB	3.7	POL2011_064356.sid
<input type="checkbox"/>	1/13/2011	1 ft	RGB	3.9	OSC2011_64358.sid
<input checked="" type="checkbox"/>	1/13/2011	1 ft	RGB	3.7	OSC2011_64357.sid
<input checked="" type="checkbox"/>	1/28/2008	1 ft	RGB	3.8	OP2008_NC_064356_24.sid
<input type="checkbox"/>	1/2/2008	1 ft	RGB	1.8	OP2008_64358.sid
<input type="checkbox"/>	1/2/2008	1 ft	RGB	1.7	OP2008_64357.sid
<input type="checkbox"/>	1/31/2006	1 ft	RGB	3.7	op2006_18199_nc.sid
<input type="checkbox"/>	10/1/2005	1 ft	RGB	0	OSC2005-137633
<input type="checkbox"/>	2/18/2005	1 ft	RGB	3.9	POL2005-18285
<input type="checkbox"/>	1/10/1996	n/a	B/W	14.4	440601-03.sid



Zoom Tools

Layers

Steps: Sketch, Save, Submit.

APLUS – Area of Interest (AOI)

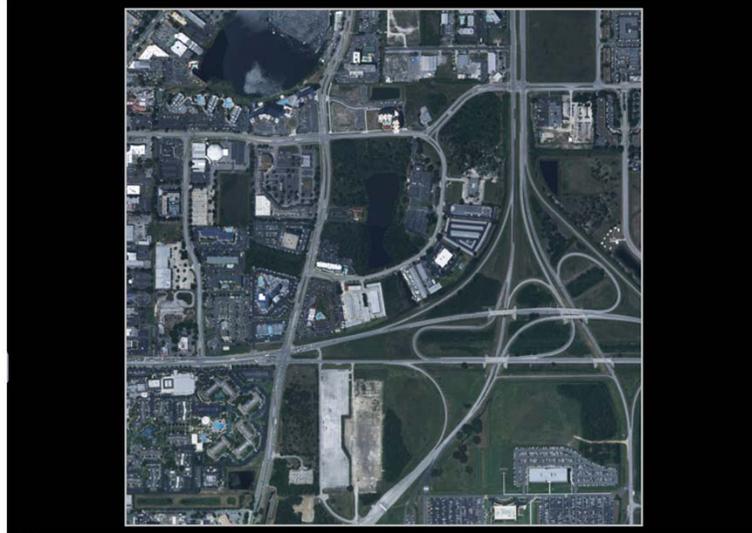
The screenshot shows the APLUS web application interface. At the top, there is a navigation bar with the Florida Department of Transportation logo and the text "Florida Department of Transportation". Below this, a header section contains "Welcome, Stuart" and "Aerial Photo Look-Up System". The main content area is titled "Download" and "Download Images". It indicates that 4 images are selected, totaling 25.6 megabytes. There are two download options: "Download Individually" and "Download All". The "Download Individually" section shows a table with columns for "Name" and "Download". The table lists four files: 440601-03.sid, op2006_18199_nc.sid, OP2008_NC_064356_24.sid, and OSC2011_64357.sid. The "Download All" section has a "DOWNLOAD" button and a note that it may take 60 seconds or more to initiate. There are also "Helpful Hints" and navigation buttons for "< Back" and "Return to Main".

Name	Download
440601-03.sid	
op2006_18199_nc.sid	
OP2008_NC_064356_24.sid	
OSC2011_64357.sid	

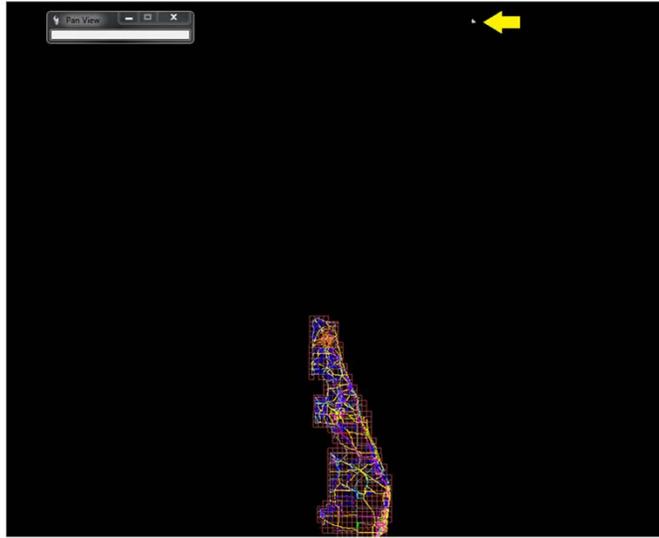
Here is the download page. There is basically two sections: download individually and download all.

One thing to note is with world files. The app shows a globe for all images but world files are primarily available for data from the last 10 years.

Adding Downloaded Images to CAD

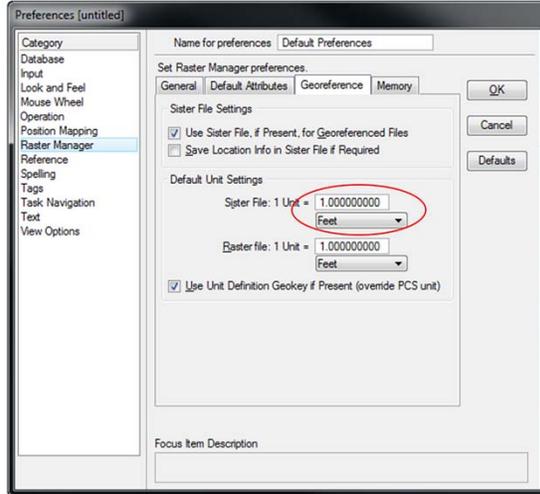


Alignment Problems



MicroStation Fix

Workspace > Preferences



Aligned!

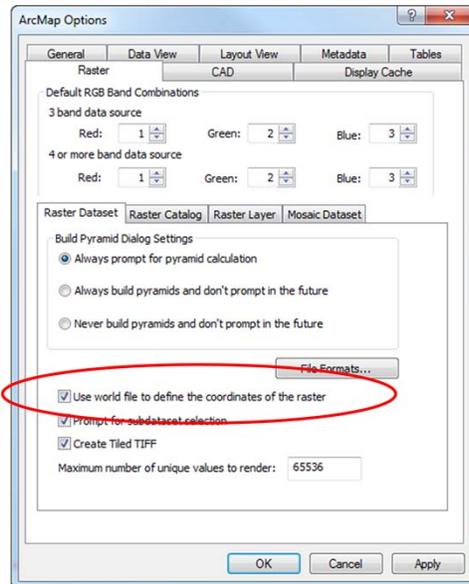


AutoCAD

- ◆ Raster Design Object Enabler
 - ✓ See AutoCAD Civil 3D Services & Support
<http://usa.autodesk.com/support/>
- ◆ Integrated in 2012 base products.



GIS - ArcMap



On main menu, select Customize > ArcMap Options

Future Plans

- ◆ WMS connection
- ◆ APLUS v2
- ◆ Georeference historical aerials



Have a WMS connection to our Aerial Base Map. Currently updating it with 2013 data.

Deploy APLUS v2 which will use the FDOT GIS framework and be browser neutral. IE10 Users

We would like to be able to georeference all our historical aerials but that will be huge undertaking.

Questions?



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Image Services contact information:
imageservices@dot.state.fl.us
www.dot.state.fl.us/surveyingandmapping/apac.shtm

I-10 at US319 1957 - 2009

1957, 1962, 1970, 1973, 1983, 1992, 2006, 2009