

Inventory & Monitoring Division

National Park Service



Standard Operating Procedure 2.11.18

Maintenance and Management of the Landscape Dynamics Data Viewer for use as part of the IMD Environmental Settings Protocol

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Summary

This SOP provides guidance for management and maintenance of the Landscape Dynamics Viewer.

Contents

	Page
Summary	1
Overview	3
Requirements	3
Managing the Landscape Dynamics Web Map	3
Removing a Layer	5
Adding a Layer	5
Managing the Landscape Dynamics Web Mapping Application	6

Overview

The Landscape Dynamics Viewer is intended to provide users of Landscape Dynamics data the opportunity to view source/seamless data in relation to Areas of Analysis (AOA) which include park boundaries, parks buffered 3km and 30km, HUC12 watersheds that intersect park boundaries, and any custom AOAs submitted by I&M Networks or other users. Users of the viewer can create simple map images and also visualize multiple years of data quickly.

The viewer is a web mapping application built and hosted on ArcGIS Online (AGOL), driven by a web map also hosted on AGOL. The web map is populated by map services from various sources, including IMD map services hosted on ArcGIS Server.

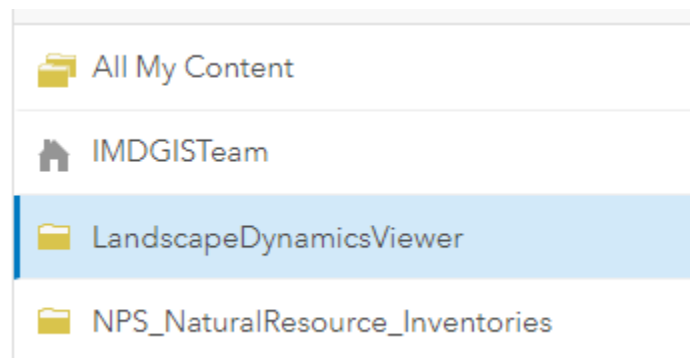
It is assumed users of this SOP have prior knowledge of data paths, file locations, and AGOL access referenced in this SOP.

Requirements

- AGOL sign in access and permissions via the IMDGISTeam credentials

Managing the Landscape Dynamics Web Map

1. Upon logging into AGOL via user IMDGISTeam, click Content and select the LandscapeDynamicsViewer folder.

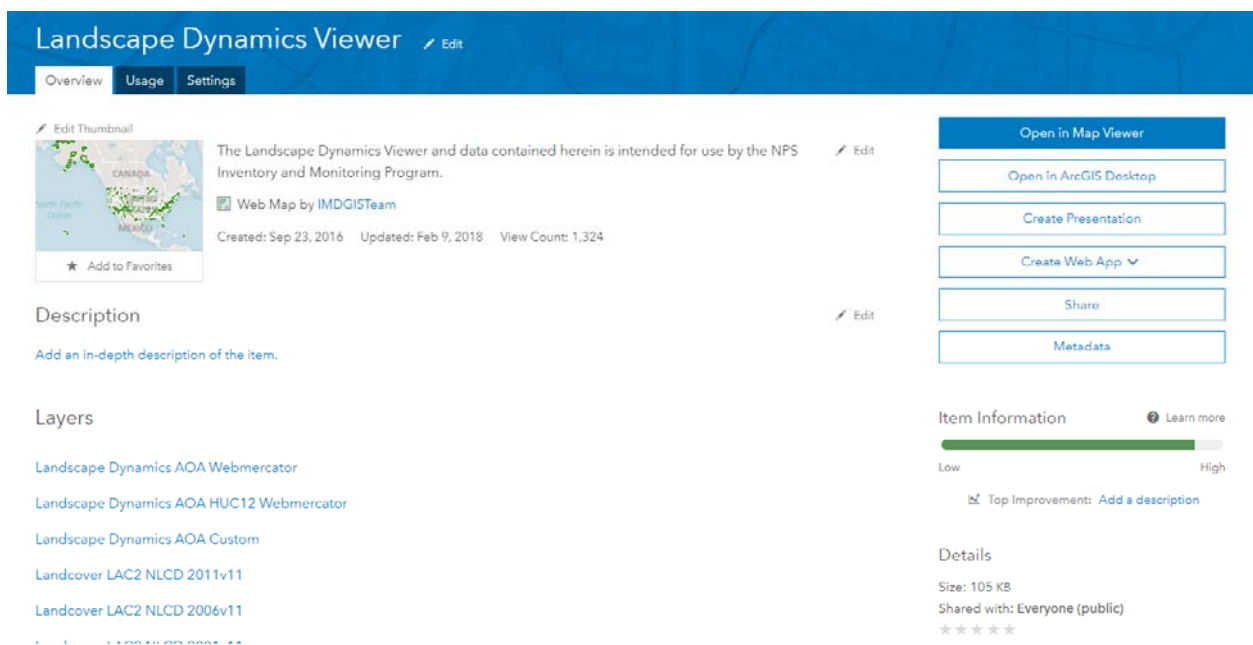


- a. There are two items within the folder, the Landscape Dynamics Viewer **Web Map**, and the Landscape Dynamics Viewer **Web Mapping Application**. The Web Mapping Application consumes the Web Map in order to display spatial data.

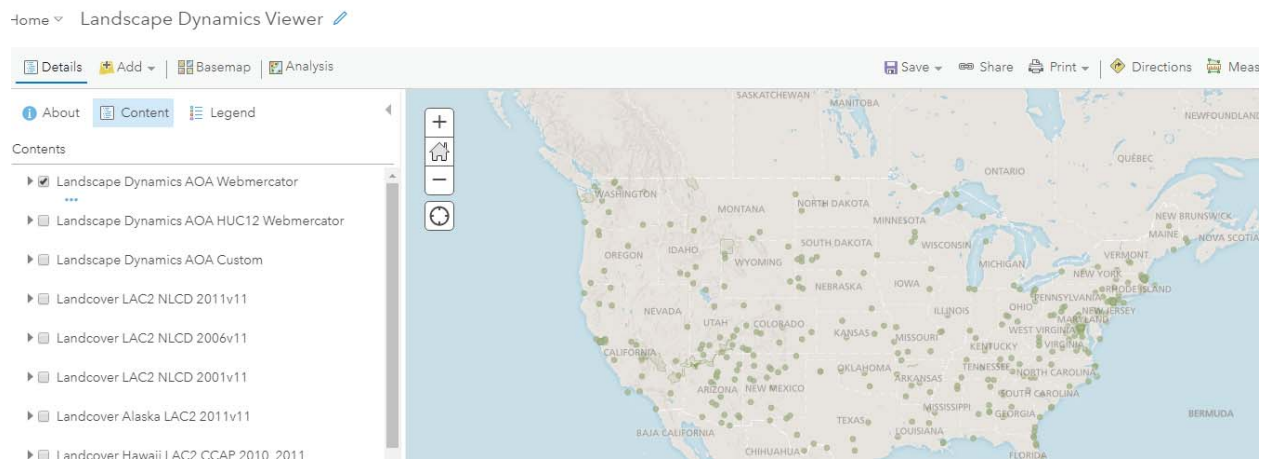
1 - 2 of 2 in LandscapeDynamicsViewer

☐	Title	
☐	 Landscape Dynamics Viewer	Web Map
☐	 Landscape Dynamics Viewer	Web Mapping Application

2. Click on the Landscape Dynamics Viewer **Web Map**. All layers available in the web map are listed in this view. Hover over the layer to see the url link.



- a. Clicking on “Open in Map Viewer” will allow you to add/remove/edit the Layers, which are the spatial data drawn on the map. Note that opening the map in the AGOL viewer automatically puts the map into edit mode. If the map is closed without saving, AGOL will continue to keep it ‘open’ in edit mode until accessed again, even if logged out.



3. As long as the REST endpoint for posted layers does not change, updates to map services should be seamlessly integrated into the map viewer. If brand new services are published, they will have to be added, and if any published services need to be permanently removed, they will have to be removed manually.

Removing a Layer

1. In the web map, right click on the layer in the table of Contents, and go to Remove.
2. If adding a replacement service, go to Adding a Layer.
3. If not adding a replacement, save the web map and check the public url of the Landscape Dynamics Web Mapping Application for the change - <https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=2ec2585fa978404fbc316ec280645518>

Adding a Layer

1. From the AGOL Map Viewer (as opened above), click the Add button and select appropriate method. Currently, all layers used in the map are from the Web; select “Add Layer from Web”.
 - a. Select the appropriate source. All services used should be “An ArcGIS Server Web Service”
 - i. Paste into the dialogue the URL to the service being added. If referencing a map service from NPS be sure to use the alias path (i.e. irmaservices.nps.gov) and not the dedicated server name.
 - b. Add Layer.
2. By default, added layers are placed at the top of the table of contents and marked ‘on’.
 - a. Make edits to the display name (if needed).

- b. Move layer to appropriate draw location in the table of contents.
 - c. Turn on/off layer(s). Anything marked as ‘on’ in the web map will automatically draw when the map viewer is opened. The only default ‘on’ layer should be Landscape Dynamics Park AOAs. All other layers should be ‘off’ by default.
 - d. Repeat as needed for additional data layers.
3. When all changes/edits are done, ‘Save’ the web map.
4. Go to the Overview of the web map and check the newly added service(s) is listed in the “Layers”.
5. Check the public url of the Landscape Dynamics Web Mapping Application for the new data layer -
<https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=2ec2585fa978404fbc316ec280645518>

Managing the Landscape Dynamics Web Mapping Application

The public facing link to access and use the web map application is

<https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=2ec2585fa978404fbc316ec280645518>

To make edits or changes not related to the data layers themselves, edit the web map application, accessed through AGOL.

1. From the item list within the LandscapeDynamicsViewer folder, open the LandscapeDynamicsViewer **Web Mapping Application**.

Landscape Dynamics Viewer ✎ Edit

Overview Usage Settings

✎ Edit Thumbnail

The Landscape Dynamics viewer provides a user-friendly, interactive map that allows for exploration of Landscape Dynamics data. The Landscape Dynamics Viewer and data contained herein is intended for use by the NPS Inventory and Monitoring Program.

✎ Edit

Web Mapping Application by IMDGISTeam

Created: Sep 23, 2016 Updated: Feb 7, 2017 View Count: 1,091

★ Add to Favorites

Description ✎ Edit

Landscape Dynamics is a NPS monitoring project designed to help parks better understand the landscape-level opportunities and challenges they face in protecting park natural resources. To support these needs, NPS Inventory and Monitoring Division delivers landscape-level data to inform natural resource management and planning at local, regional, and national scales.

The Landscape Dynamics viewer provides a user-friendly, interactive map that allows GIS specialist and non-GIS specialists alike to explore Landscape Dynamics GIS data. From the viewer users can click on and off different layers, alter layer order and transparency, pan and zoom to areas of interest, compare two different data layers for an area using the swipe tool, and print custom map views for use in reports or briefings.

View Application

Edit Application

Download

Share

Metadata

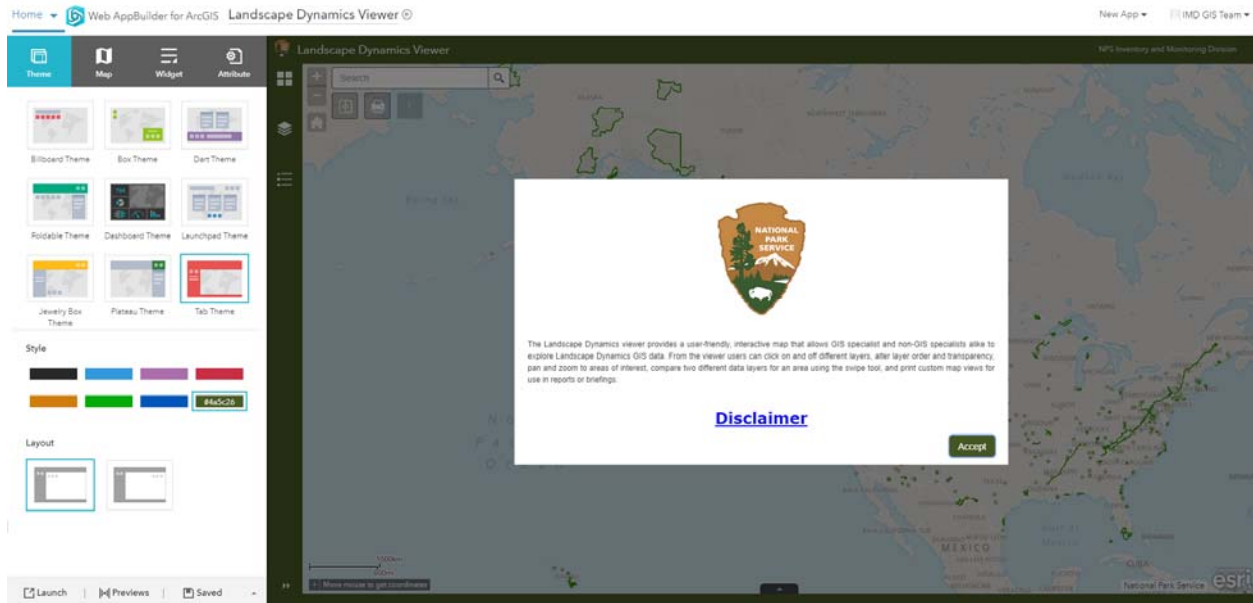
Item Information ⓘ Learn more

Low High

Details

Size: 56 KB

2. To edit or change the appearance and/or functionality of the web application, click “Edit Application”.
 - a. The Web App Builder interface will load, and edits can be made to the application. Again, changes made to the application in this manner have nothing to do with the spatial data content of the map.



3. Save any changes/edits made, and view the public facing site for implementation of changes. The browser cache may have to be cleared to see the changes.
<https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=2ec2585fa978404fbc316ec280645518>
4. Sign out of AGOL when done.