

Manual to Load Oblique Image Model

Overview

Oblique image model is becoming an important source of 3D GIS because it is precision, efficient, real, and cost effective.

SuperMap GIS products support oblique image model.

SuperMap iClient3D for WebGL can directly load oblique image model published by the server.

This document explains how WebGL Client load and browse oblique image data.

1. [Generate Configuration File](#)
2. [Publish 3D Services](#)
3. [Browse Oblique Image Model at Client Side](#)

Operations

Here is an example to illustrate the steps.

1. Generate Configuration File

Introduction

You can generate a .scp format configuration file based on .osgb files from multiple folders. The configuration file records the relative paths, names, insert points, coordinate information, etc. of the oblique image model data.

If you already have the .scp format configuration file, you can skip this step to [2.Publish 3D Services](#).

Basic Steps

1 Open SuperMap iDesktop, go to Oblique Photogrammetry > Create configure file.

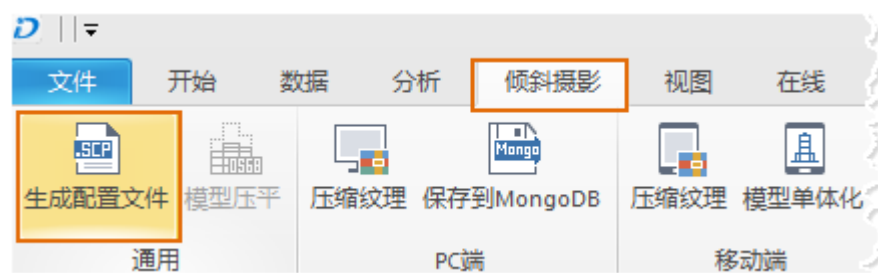


Fig. Generate scp file

2 In the dialog box that displays, as shown below:

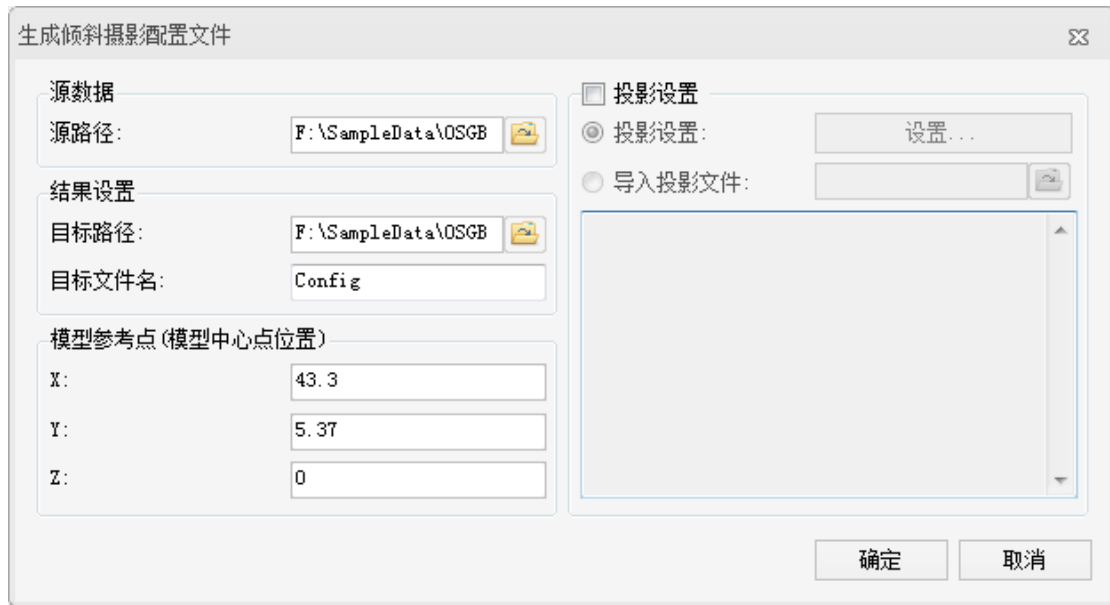


Fig. Generate scp file dialog box

3 Select the folder of OSGB models for Source Path

4 For Result Settings, please follow the suggestions below:

- Target Path: The path to save the configuration file
- Target File: The name of configuration file.

5 Set X, Y, Z for Reference Point. The default is (0, 0, 0).

- Reference Point is the center of the oblique image mode. X represents longitude, Y represents latitude, Z represents elevation.

6 Check Projection Settings, set projection for the .scp file.

7 After settings, click OK to generate the configuration file.

Results

A new file with the extension of .scp will be generated at the specified target path, as shown below.

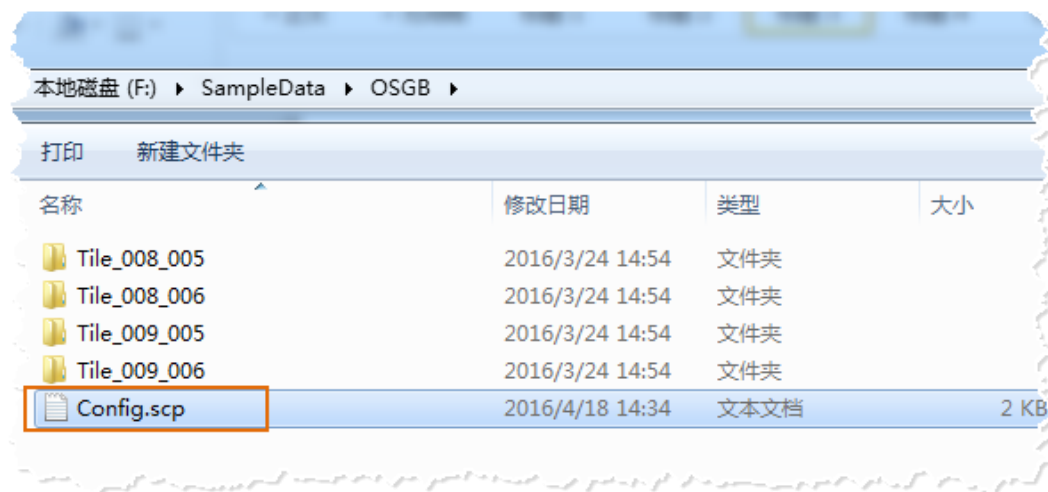


Fig. Result for generating configuration file

2. Publish 3D Services

Introduction

When you get the configuration file, you can publish the oblique image model.

Basic Steps

For details, please refer to [Load Oblique Image Model with WebGL](#).

Results

1 Open SuperMap iDesktop, Workspace Manager>Scene>New Spherical Scene.

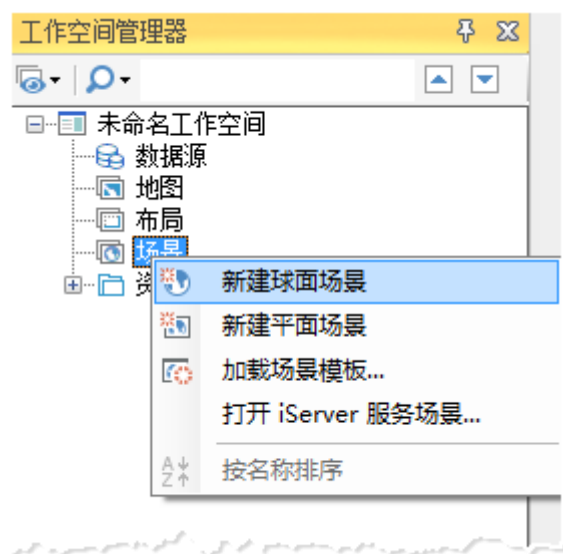


Fig. New spherical scene

2 Layer Manager>General Layers>Add OSGB Cache Layer, select the *.scp configuration file generated.

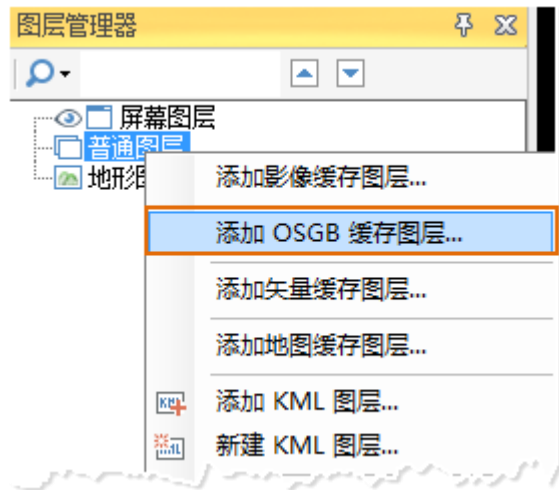


Fig. Add OSGB cache to scene

3 After loading data, save scene and workspace.

4 Start iserver via 4 **startup.bat** under %SuperMap
iServer_HOME%/bin.

5 Start browser, enter Web Manager

via <http://localhost:8090/iserver/manager>. Quickly publish a
service at Home Page.



Fig. Quickly publish one or multiple services

6 In the Quickly publish service--Select datasource page, select the Workspace as the Data source, and click Next.



Fig. Select the Workspace as the Data source

7 In the Quickly publish service--Configure data page, click Remote Browse to select the workspace, click Next.



The screenshot shows a dialog box titled "快速发布服务-配置数据" (Quickly publish service-Configure data). It contains three input fields: "工作空间类型:" (Workspace type) with a dropdown menu set to "文件型" (File type); "工作空间路径:" (Workspace path) with a text box containing "Data/MaSai/MaSai.smw" and two buttons, "本地浏览..." (Local browse...) and "远程浏览..." (Remote browse...), where "远程浏览..." is highlighted with an orange border; and "工作空间密码:" (Workspace password) with an empty text box. At the bottom right, there are three buttons: "上一步" (Previous step), "下一步" (Next step), and "取消" (Cancel), with "下一步" highlighted in blue.

Fig. Select the workspace

8 In the Quickly publish service--Select service type page, Select REST 3D Service, click Next.



The screenshot shows a dialog box titled "快速发布服务-选择发布的服务类型" (Quickly publish service-Select service type). It contains a text box stating "当前数据源支持以下服务类型，可多选。" (The current data source supports the following service types, multiple selections are allowed). Below this, there is a list of service types with checkboxes and a dropdown arrow next to each: "选中/取消选中" (Selected/Canceled), "REST-地图服务" (REST-Map service), "REST-数据服务" (REST-Data service), "REST-三维服务" (REST-3D service), "REST-空间分析服务" (REST-Spatial analysis service), and "RFST-交通网络分析服务" (RFST-Traffic network analysis service). The "REST-三维服务" checkbox is checked.

Fig. Select REST 3D Service

When finished, click Finish and Close.

Results

The service displays in the service list

<http://localhost:8090/iserver/services>, as shown below.



Fig. The published service

3 Browse Oblique Image Model at Client Side

Introduction

After publishing service, WebGL Client can load the oblique image data.

Please place WebGL package at %SuperMap
iServer_HOME%/webapps.

Basic Steps

1 Get the url of the 3D data.

- Enter <http://localhost:8090/iserver/services> and find the published 3D service.
- Enter root directory page, click realspace.
- Enter 3D page, click datas.
- Enter datas page, click Config.
- Enter data page, click Get 3D data configuration file to display the page as shown below, and copy the url address.

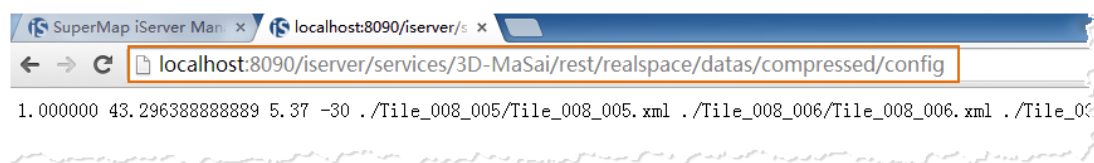


Fig. Copy url address

2 Enter the path of WebGL product package in %SuperMap
iServer_HOME%/webapps, in the examples folder, open

S3MTiles.html with text editor, and modify the following content.

```
var promise = scene.addS3MTilesLayerByScp('http://localhost:8090/iserver/services/3D-MaSai/rest/realSpace/datas/Config/config', {
  name : 'Config'
});
Cesium.when(promise, function(layer) {
  scene.camera.setView({
    destination : Cesium.Cartesian3.fromDegrees(43.296388888889, 5.37, 500)
  });
}, function(e) {
  if (widget._showRenderLoopErrors) {
    var title = 'An error occurred while rendering. Rendering has stopped.';
```

Fig. Change parameter

- Modify the **scene.addS3MTilesLayerByScp()** function, and change the address to the copied address, and change the name.
- Modify the **Cesium.Cartesian3.fromDegrees()** function. The parameters of this function are longitude, latitude, elevation of the center point of the model. Please modify the insert point in the scp file, which is used to fly to the position of the oblique image model.

3 Open the **S3MTiles.html** page, that is, enter the url <http://localhost:8090/%WebGLPackage%/examples/S3MTiles.html> in the browser.

Results

After you open the page, the camera flies to the position of the oblique image data, as shown below.

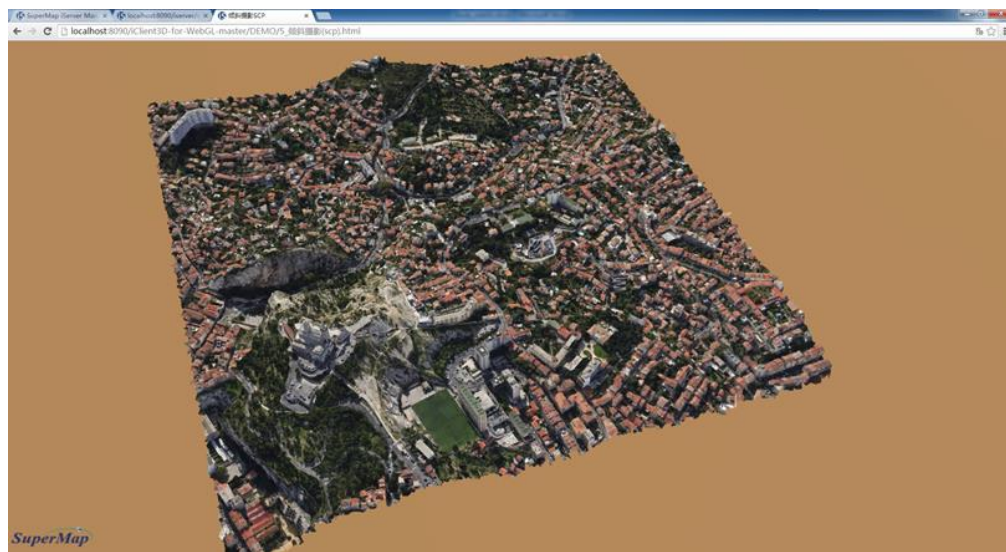


Fig. Load oblique image data

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