

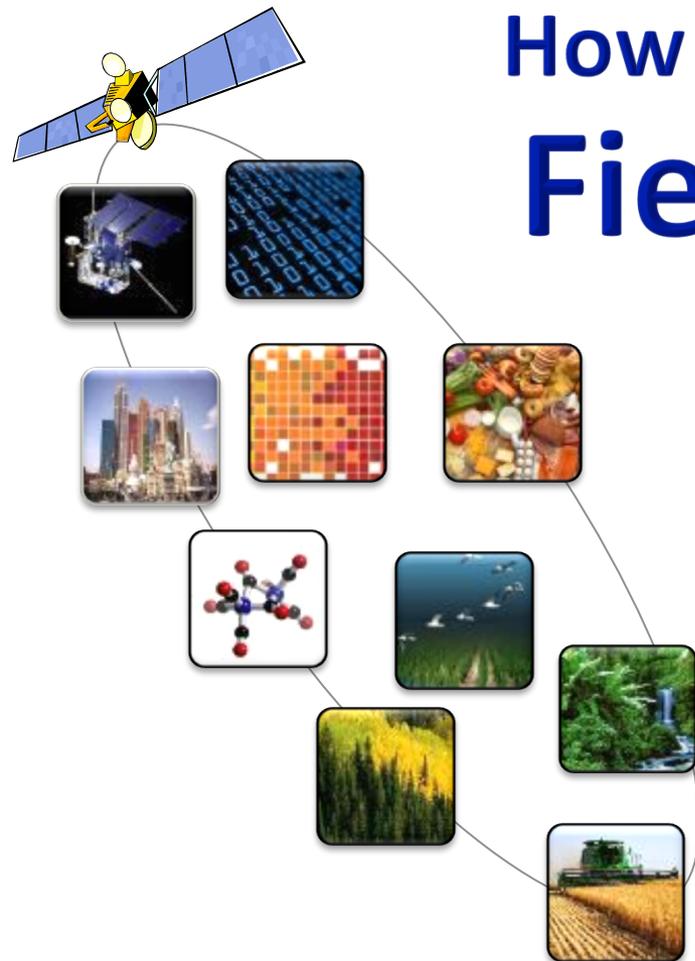


## How to Use the Geo-Referenced Field Photo Library

Bridging the Gap

Connecting Citizen Science ↔ Earth Observation

[www.eomf.ou.edu/photos](http://www.eomf.ou.edu/photos)



# 1. Upload

How to upload geo-referenced field photos?

1. Go to <http://www.eomf.ou.edu/photos/>
2. Login your account (Click on Register to create your account if you not yet done)
3. Click on the “Upload”
4. Upload your photos either individual files or a zip file of images (png, jpeg, gif): or just drag and drop photos from your computers

## Global Geo-Referenced Field Photo Library

Welcome, you are **biradar**

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#) | [Summary](#)

### Upload

You can select multiple files, drag&drop files into the window with Firefox, Safari, Chrome



The default setting for photos is public, do you want to change it to private?  [Save Uploaded Images](#)

### Notes

- Please upload individual images or archive files containing images (JPEG, PNG, GIF, ZIP, RAR)
- Total upload limit is set at 650MB, but it is recommended you do not upload files bigger than 25MB.
- If you are having trouble uploading big files (over 25M) select multiple smaller files in the file browse window.
- You can **drag & drop** files from your desktop on this webpage with Google Chrome, Mozilla Firefox and Apple Safari.

# Global Geo-Referenced Field Photo Library

Welcome, you are biradar

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#) | [Summary](#)

## Upload

You can select multiple files, drag&drop files into the window with Firefox, Safari, Chrome

	IMG_0843.JPG	277.15 KB		<input type="button" value="Delete"/>	<input type="checkbox"/>
	CIMG1930.JPG	4.50 MB	<div style="width: 20%; background-color: #4CAF50;"></div>	<input type="button" value="Start"/>	<input type="button" value="Cancel"/>
	CIMG4201.JPG	1.35 MB		<input type="button" value="Start"/>	<input type="button" value="Cancel"/>

The default setting for photos is public, do you want to change it to private?

Click Start to Upload

Click Save to save the uploaded photos

## 2. Edit How to edit and classify geo-referenced field photos?

1. While you login to the Field Photo Library, you will see your account “User’s Account”
2. Click on the Your Account to list of Uploaded picture by date of Upload as shown below;

### Uploaded pictures by date of upload

- [View](#) 47 pictures uploaded on 2010-11-15
- [View](#) 509 pictures uploaded on 2010-10-18
- [View](#) 4 pictures uploaded on 2010-08-10

3. Click on the View to Display photos thumbnails with basic info and “Edit” button

[Check All](#) | [Uncheck All](#)



Date taken: 2010-07-03  
12.3552 °E, 3.8901 °N  
Category: Not Set  
MODIS time series data: [View](#)  
[\(Edit\)](#)



Date taken: 2010-07-03  
12.3 °E, 3.8622 °N  
Category: Not Set  
MODIS time series data: [View](#)  
[\(Edit\)](#)



Date taken: 2010-07-03  
12.0218 °E, 3.8906 °N  
Category: Not Set  
MODIS time series data: [View](#)  
[\(Edit\)](#)



Date taken: 2010-07-04  
11.3067 °E, 3.7915 °N  
Category: Not Set  
MODIS time series data: [View](#)  
[\(Edit\)](#)

Continued...

Continued...

4. **Edit** Button will display page →
5. Select **Status** (Default is Public): please note, we encourage users to set Public so that your photos will serve the purpose.
6. If you like to delete one of the photos, select **Status** (Delete)
7. Select LULC **Category** for the photos from the list. Often your photos may not exactly fit into a class, please choose one category that is more likely.
8. **Description** is where you can provide specific land use /land cover name and other ancillary information about the photo
9. Click **Edit Photo** to save Photo

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

### Photo Edit: 474301052008(10).JPG



Date taken: 2008-05-01

Longitude:  Decimal degrees.

Latitude:  Decimal degrees.

Altitude:  Meters.

Direction:  Cardinal direction. (i.e. NNE)

Status:  Deleted  
Public  
Private

Category:  Savannas  
Grasslands  
Permanent Wetlands  
Croplands  
Urban and Built-Up  
Cropland/Natural Vegetation Mosaic  
Permanent Snow and Ice  
Barren or Sparsely Vegetated  
Unclassified  
Plantations  
Orchards  
Water Bodies  
Evergreen Needleleaf Forest  
Evergreen Broadleaf Forest  
Deciduous Needleleaf Forest  
Deciduous Broadleaf Forest  
Mixed Forest  
Closed Shrublands  
Open Shrublands  
Woody Savannas

Description:

# 3. Query How to query the Field Photo library

1. User can query Field Photo Library by clicking on “Query” or “Map Query

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

2. Clicking on “Query” will display query or search option by geographic extents, by date, by metadata (category and username) or by region and countries as shown below;

**Global Geo-Referenced Field Photo Library**

Welcome, you are **biradar**

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

**Search by coordinates:** Longitude min:  Longitude max:   
Latitude min:  Latitude max:

**Search by date:** From: Jan 1 1990 To: Jul 27 2011

**Search by metadata:** Categories: All Users: All

**Search by region:** Countries: All Geographical: All

Search by keywords:

Photos found: 31401         ...    Page:  Items per page:

[Check All](#) | [Uncheck All](#)

Here I selected “All”, query displayed all the photo. You can select photo of interest for download in CSV, KML, and ArcGIS shapefile.

CSV file and images.  
CSV file and images.  
KMZ: KML and images.  
ESRI Shapefile/DBF.

KMZ: KML and images.

Original images.

Continued...

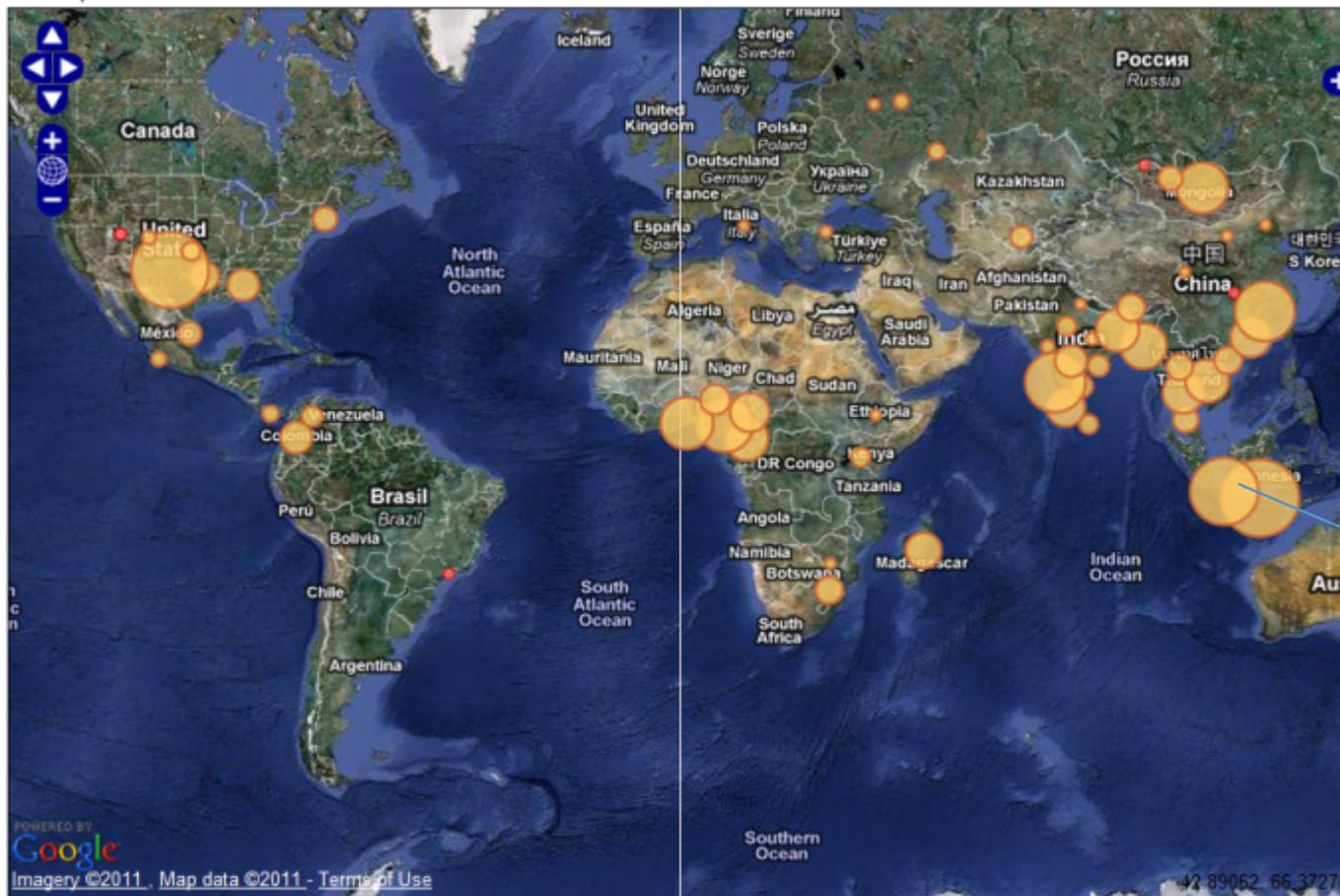
# How to query the Field Photo library

3. User can query Field Photo Library by clicking on “Query” or “Map Query”

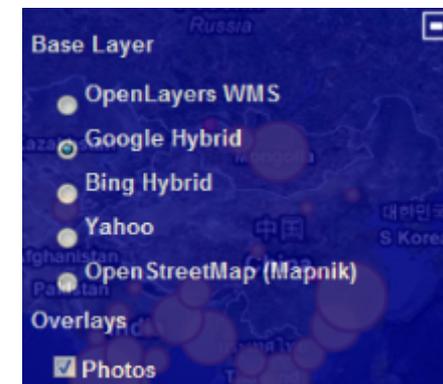
[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

4. Clicking on “Map Query” will display photo location on the Map

15423 photos



Click on + mark to chose different background map

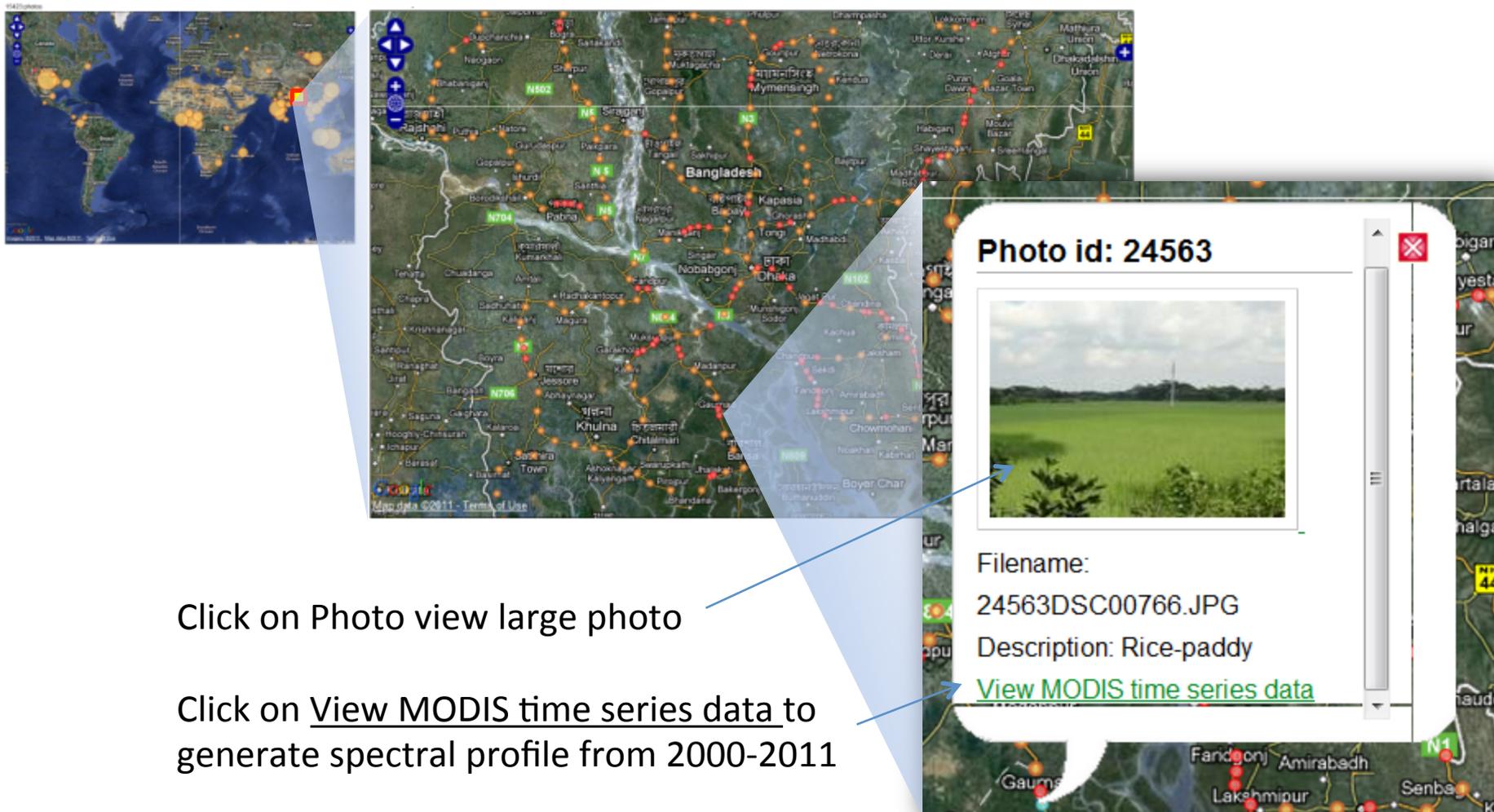


Orange Circles represent size of the cluster of photos. Further zoom in will show little red dot are the photos

# How to query the Field Photo library

3. User can query Field Photo Library by clicking on “Query” and “Map Query”

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)



The image shows a web interface for a field photo library. On the left, a small globe shows the location of Bangladesh. The main area is a satellite map of Bangladesh with several red dots indicating photo locations. A popup window is open over a specific location, displaying a photo of a rice paddy field. The popup contains the following information:

- Photo id: 24563
- Filename: 24563DSC00766.JPG
- Description: Rice-paddy
- [View MODIS time series data](#)

Two blue arrows point from the text below to the popup window. The first arrow points to the photo image, and the second arrow points to the 'View MODIS time series data' link.

Click on Photo view large photo

Click on [View MODIS time series data](#) to generate spectral profile from 2000-2011

# 4. Use How to download geo-referenced field photos and associated thematic database for your analysis?

1. Using Query tool to select set of the photos;
2. Click **Check All** or Photo of interest to select and scroll down to Download button and select required format to download to your local machine;

**Global Geo-Referenced Field Photo Library**

Welcome, you are **biradar**

[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

**Search by coordinates:** Longitude min:  Longitude max:   
Latitude min:  Latitude max:

**Search by date:** From: Jan 1 1990 To: Jul 27 2011

**Search by metadata:** Categories: All Users: All

**Search by region:** Countries: All Geographical: All

Search by keywords:

Photos found: 31401         ...    Page:  Items per page:

[Check All](#) | [Uncheck All](#)



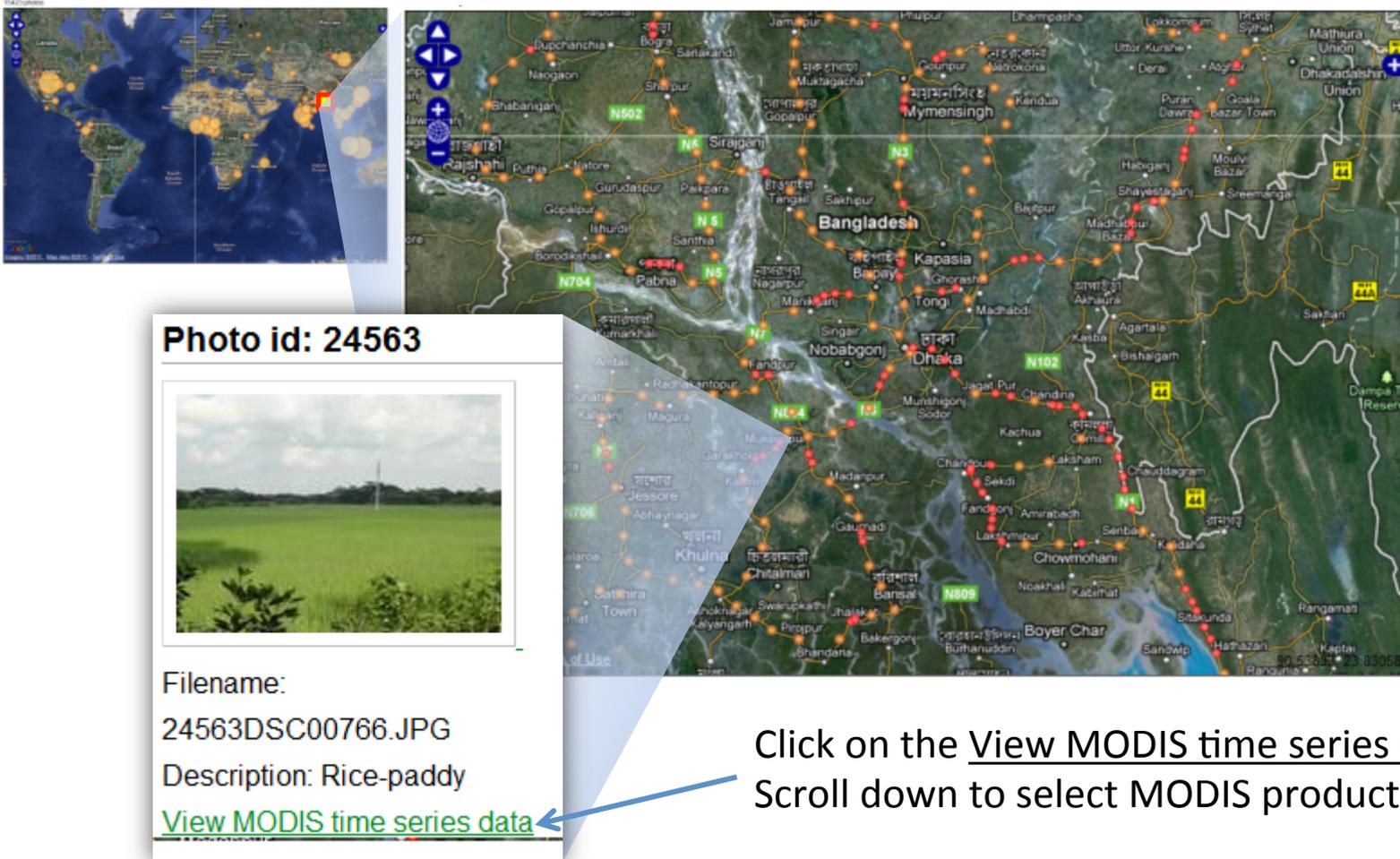
CSV file and images.   
CSV file and images.   
KMZ: KML and images.  
ESRI Shapefile/DBF.

KMZ: KML and images.

Original images.

# How to link geo-referenced field photos with MODIS time series data

1. Use “Map Query” tool to select photo
2. Bottom of the each photo shows link “View MODIS time series data”
3. Click on the link to generate



The image illustrates the process of linking a field photo to MODIS time series data. It features a world map on the left with a red square indicating the location of Bangladesh. A larger map of Bangladesh is shown in the center, with a red dot marking a specific location near Dhaka. A blue arrow points from this location to a photo of a rice paddy field. Below the photo is a metadata box containing the following information:

**Photo id: 24563**

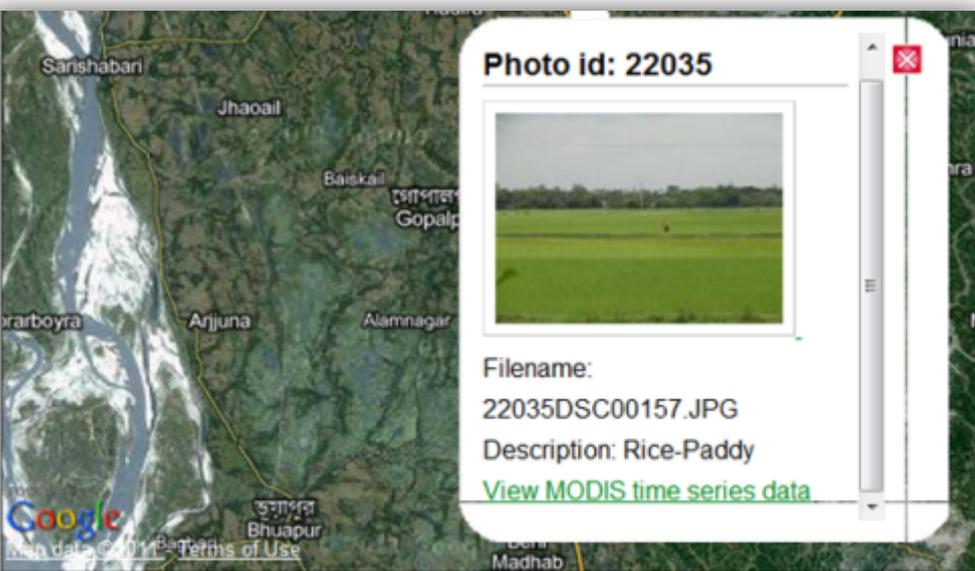


Filename:  
24563DSC00766.JPG  
Description: Rice-paddy  
[View MODIS time series data](#)

A blue arrow points from the text "Click on the View MODIS time series data" to the link in the metadata box. Another blue arrow points from the text "Scroll down to select MODIS products and Years" to the bottom of the metadata box.

Click on the View MODIS time series data  
Scroll down to select MODIS products and Years

Continued...



Latitude:  Longitude:

Dataset: 

- MOD09A1
- MCD43A4
- MOD09Q1
- MOD11A2
- MOD11C3
- MOD12Q1
- MOD13C2
- MOD14A2
- MOD17A2
- MYD11A2

Year: 

- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010

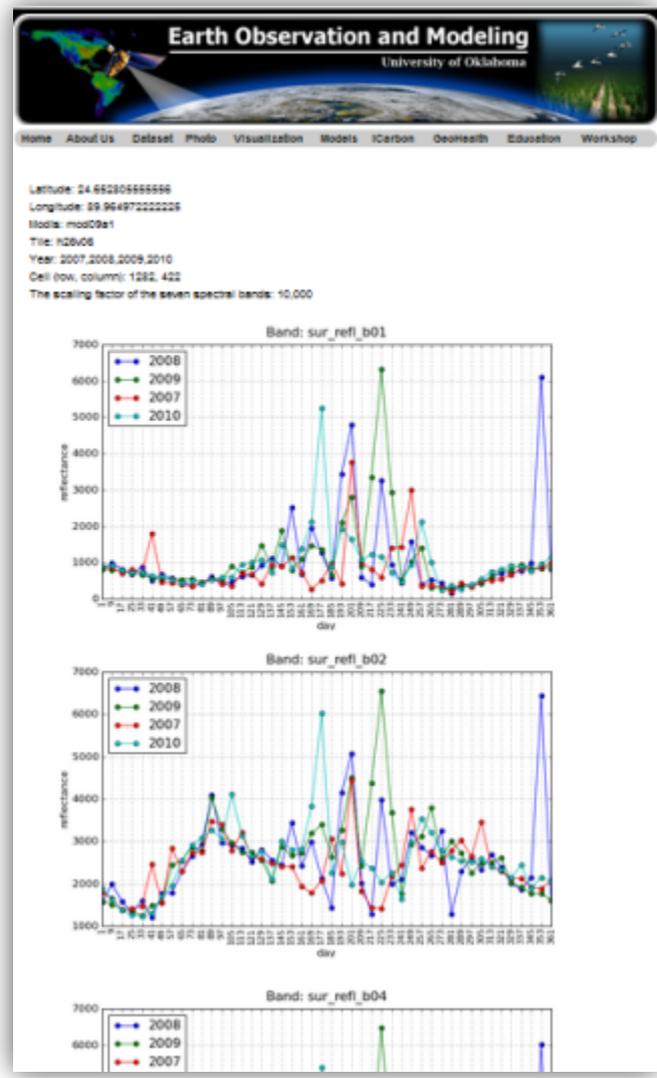
Click on Submit to generate time series data

**Data:**

Latitude: 24.652805555556  
 Longitude: 89.964972222225

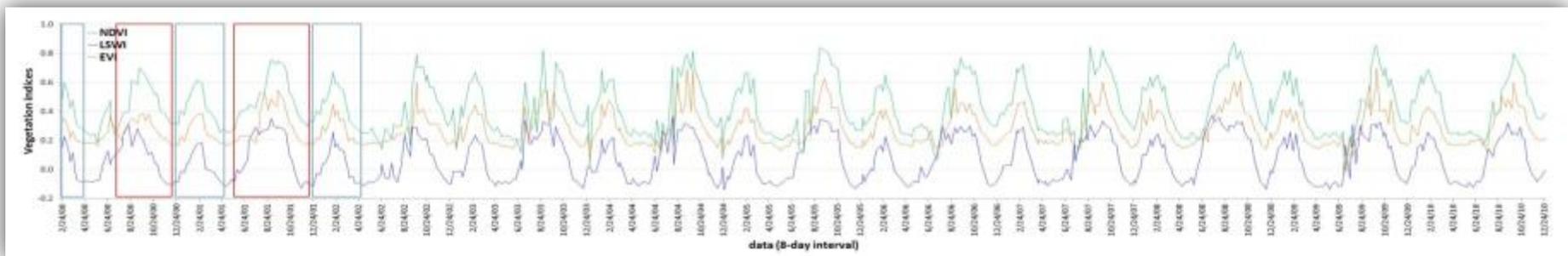
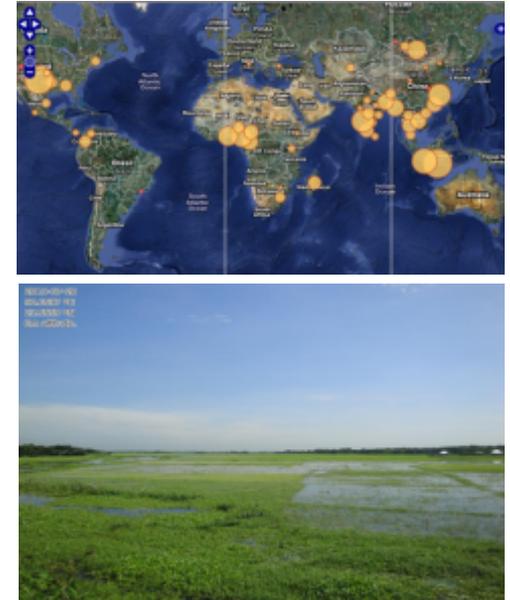
- Download data as an ASCII Table: [ascii\\_mod09a1\\_2007,2008,2009,2010\\_24.652805555556\\_89.964972222225.txt](#)
- Download data as an CSV Table: [csv\\_mod09a1\\_2007,2008,2009,2010\\_24.652805555556\\_89.964972222225.csv](#)
- View data as a series of graphs: [Graph Data](#)

Click on ASCII/CSV to download the time series data  
 Click on Graph Data to plot spectral profile as shown above



# Application of the Geo-referenced Field Photo Library

- a) FREE ground truth data for the global community
- b) Signatures / Region/ Area of Interest (ROIs/AOIs)
- c) Algorithm development
- d) Land use / land cover (LULC) mapping
- e) Accuracy assessment
- f) Cross sensor LULC validation and reporting
- g) Change detection and analysis
- h) Phenology of vegetation
- i) Extract time series spectra for each location





http://www.eomf.ou.edu/photos/map.php?a=user&info=xiao2007

## Earth Observation and Modeling

University of Oklahoma

Home About Us Dataset Photo Visualization Models iCarbon GeoHealth Education Workshop

### Global Geo-Referenced Field Photo Library

Welcome, you are xiao2007

[Home](#) | [Xiao2007's Account](#) | [Upload](#) | [Log out](#) | [Admin.Center](#) | [Query](#) | [Map Query](#)

**Search by coordinates:** Longitude min:  Longitude max:   
**Search by date:** From:  Jan 1 1990 To:  Jul 24 2011  
**Search by metadata:** Categories:  All Users:  All  
**Search by region:** Countries:  All Geographical:  All

Search by keywords:

15487 photos

Google  
 Imagery ©2011, Map data ©2011, Terms of Use

