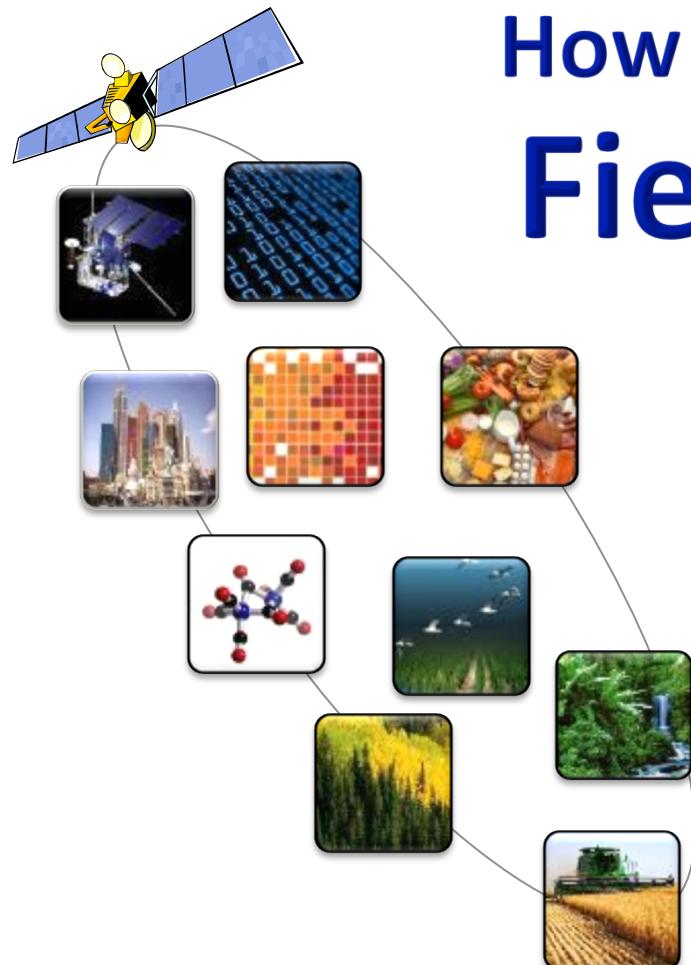


## How to Use the Geo-Referenced Field Photo Library

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

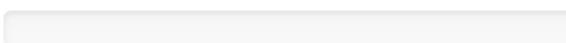
Welcome, you are **biradar**

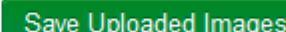
[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#) | [Summary](#)

### Upload

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

 + Add files...  ⏪ Start upload  ⏷ Cancel upload

  Delete 

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.

Earth Observation and Modeling - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Earth Observation and Modeling +

www.eomf.ou.edu/photos/upload.php Google

OKG OKG PreK Wind Map NetCamSC Live Image

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## Global Geo-Referenced Field Photo Library

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### Upload

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

+ Add files... Start upload Cancel upload

IMG\_0843.JPG 277.15 KB Delete

CIMG1930.JPG 4.50 MB Start Cancel

CIMG4201.JPG 1.35 MB Start Cancel

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

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: 80.114255079983 Decimal degrees.

Latitude: 21.080607680127 Decimal degrees.

Altitude: 266 Meters.

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

Status:

Category:

Description: Irrigated Rice Paddy fields surrounded by tree, Rice harvested. Double crops.

# 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**

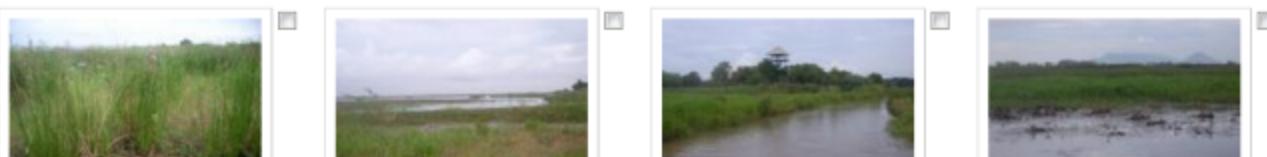
[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

<b>Search by coordinates:</b> Longitude min: <input type="text"/> Longitude max: <input type="text"/>	<b>Search by date:</b> From: <input type="text"/> Jan <input type="text"/> 1 <input type="text"/> 1990 <input type="button" value="..."/>	<b>Search by metadata:</b> Categories: <input type="text"/> All	<b>Search by region:</b> Countries: <input type="text"/> All
Latitude min: <input type="text"/> Latitude max: <input type="text"/>	To: <input type="text"/> Jul <input type="text"/> 27 <input type="text"/> 2011 <input type="button" value="..."/>	Users: <input type="text"/> All	Geographical: <input type="text"/> All

**Search by keywords:**

Photos found: 31401 [« Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) ... [1309](#) [Next »](#) [All](#) Page:  1

[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.

Continued...

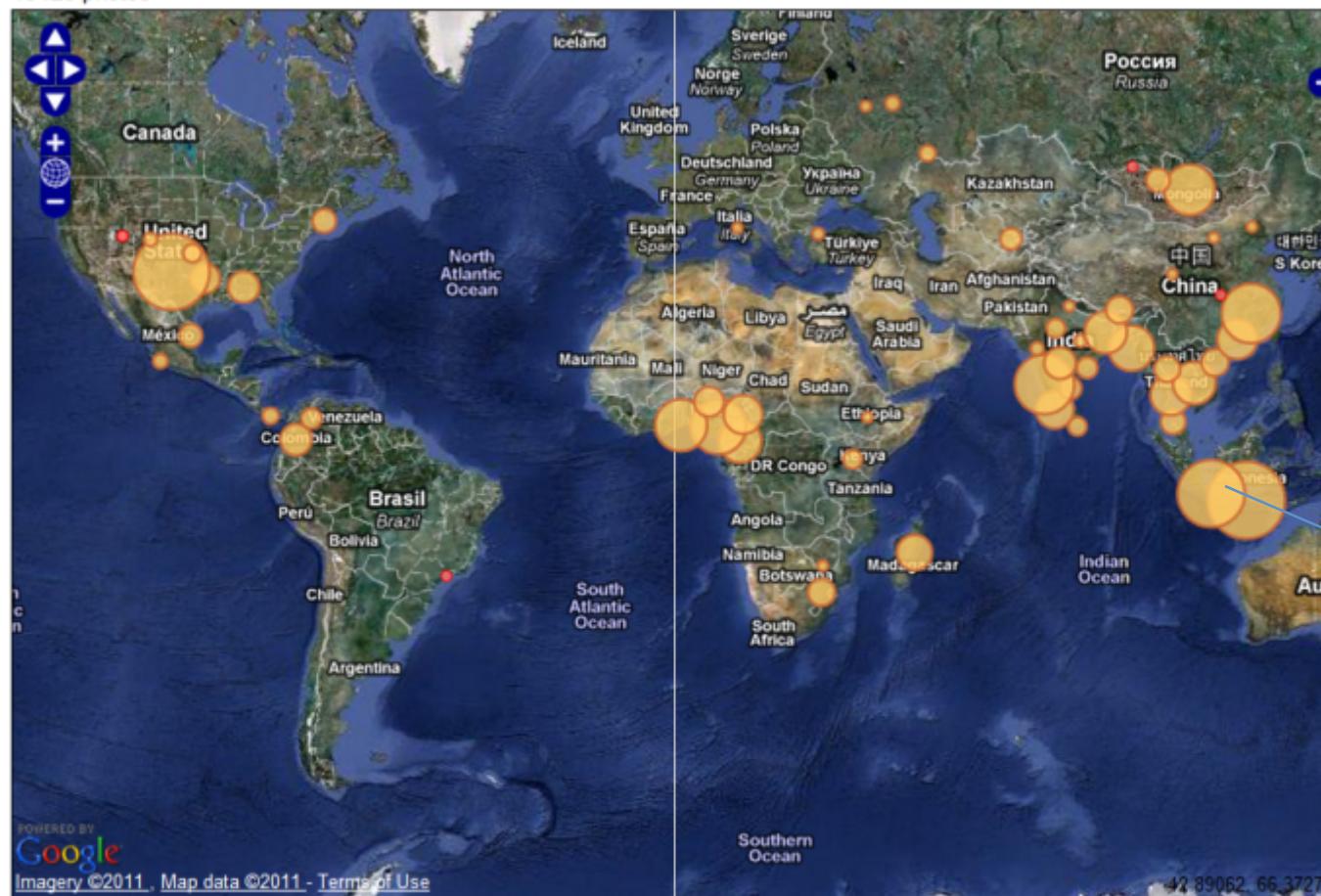
# How to query the Field Photo library

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

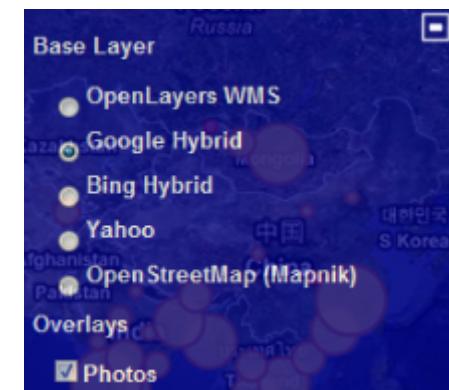
[Home](#) | [Biradar's Account](#) | [Upload](#) | [Log out](#) | [Admin Center](#) | [Query](#) | [Map Query](#)

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

15423 photos



Click on + mark to chose different background map

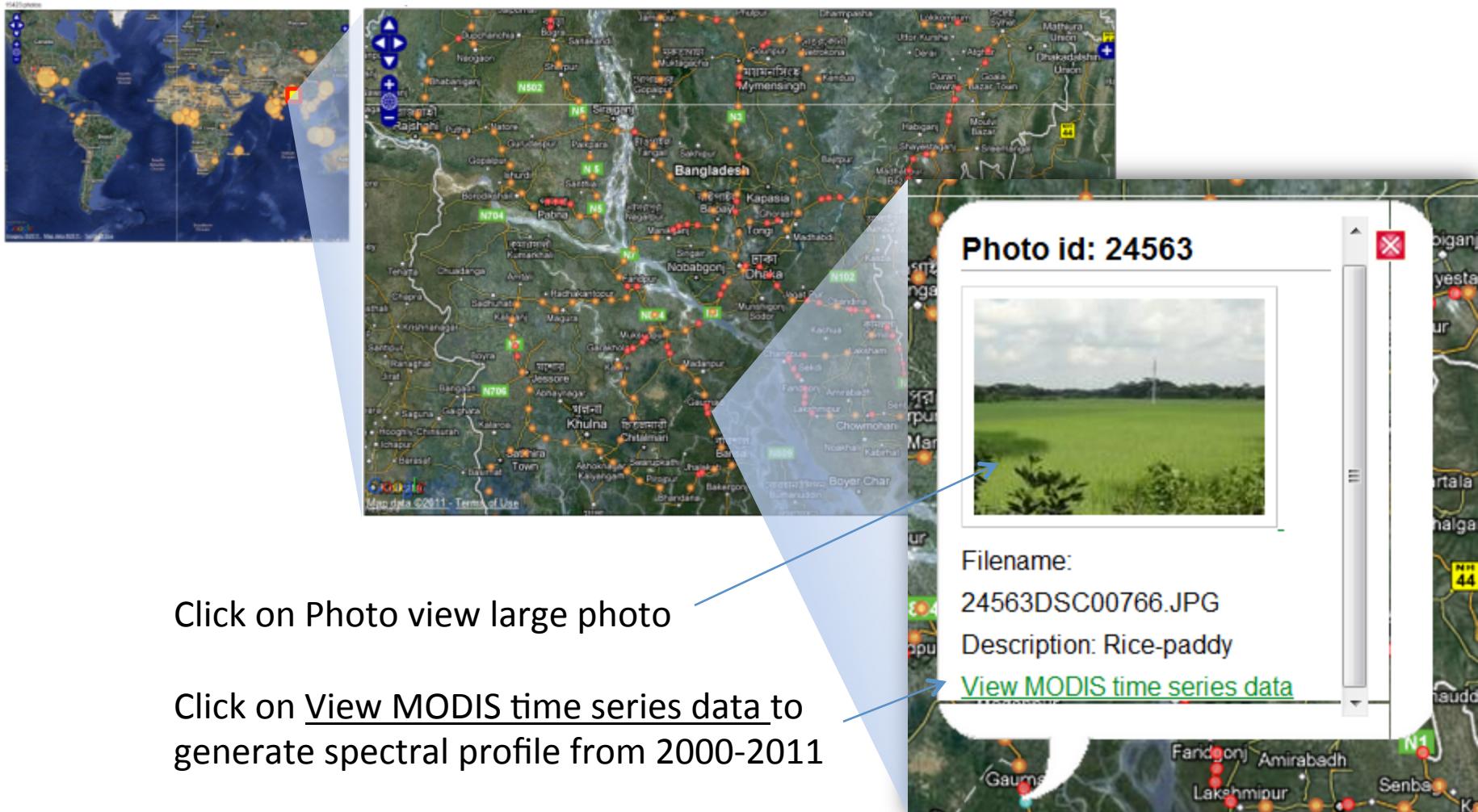


Orange Circles represent size of the cluster of photos. Further zoom in will show little red dot are the photos

# 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](#)



# 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**

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

**Search by coordinates:**      **Search by date:**      **Search by metadata:**      **Search by region:**

Longitude min: Longitude max:      From: Categories: Countries:  
  Jan 1 1990   
Latitude min: Latitude max: To: Users: Geographical:  
  Jul 27 2011

**Search by keywords:**

Photos found: 31401      < Previous **1** 2 3 4 5 6 7 ... 1309 Next > All Page: 1 Items per page: 24

[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

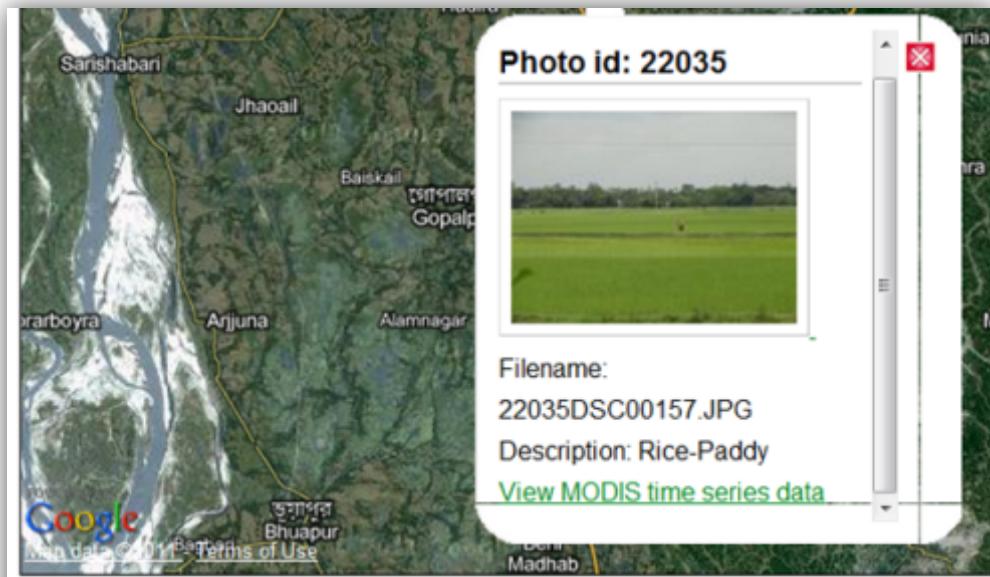
1. Use “Map Query” tool to select photo
2. Bottom of the each photo shows link “View MODIS time series data”
3. Click on the link to generate

The image consists of three main parts. On the left is a world map with a red rectangular box highlighting a region in South Asia. To the right of this box is a detailed map of Bangladesh, showing its borders, major cities like Dhaka, and a network of roads. A specific location in central Bangladesh is highlighted with a green box containing a thumbnail image of a rice-paddy field. Below this thumbnail is a white box labeled "Photo id: 24563". Inside the box are the following details:  
Filename: 24563DSC00766.JPG  
Description: Rice-paddy  
[View MODIS time series data](#)

A blue arrow points from the "View MODIS time series data" link in the photo viewer interface down towards the text at the bottom right of the slide.

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

Continued...



Latitude:  Longitude:

Dataset:

Year:

Click on Submit to generate time series data

#### Data:

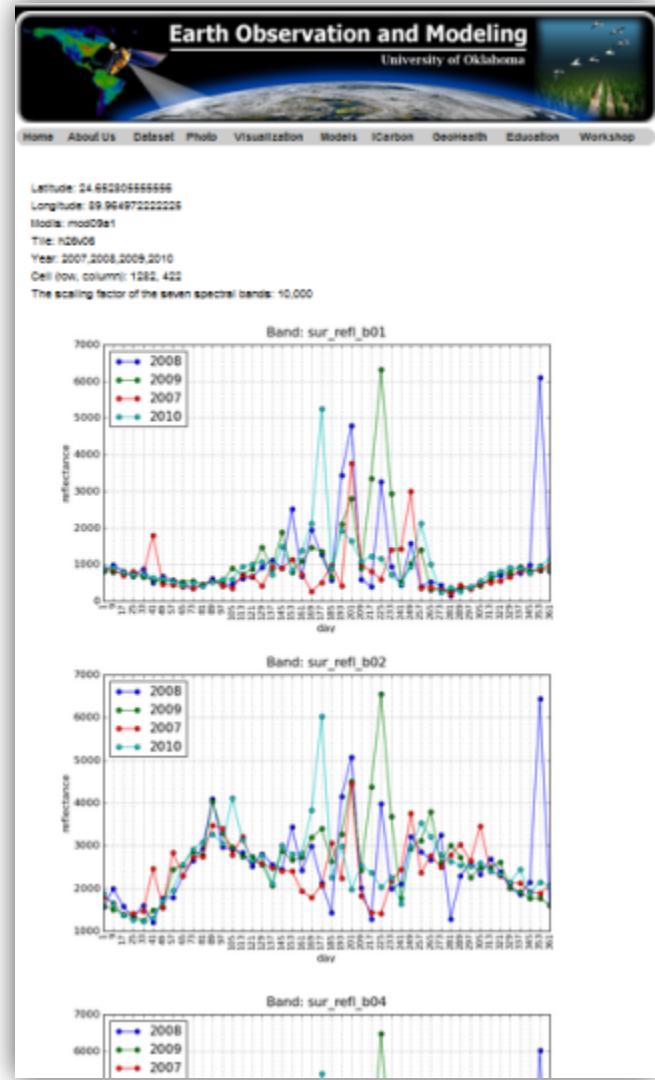
Latitude: 24.652805555556

Longitude: 89.964972222225

Download data as an ASCII Table: [ascii\\_mod09a1\\_2007,2008,2009,2010\\_24.65280555556\\_89.96497222225.txt](#)

Download data as an CSV Table: [csv\\_mod09a1\\_2007,2008,2009,2010\\_24.65280555556\\_89.96497222225.csv](#)

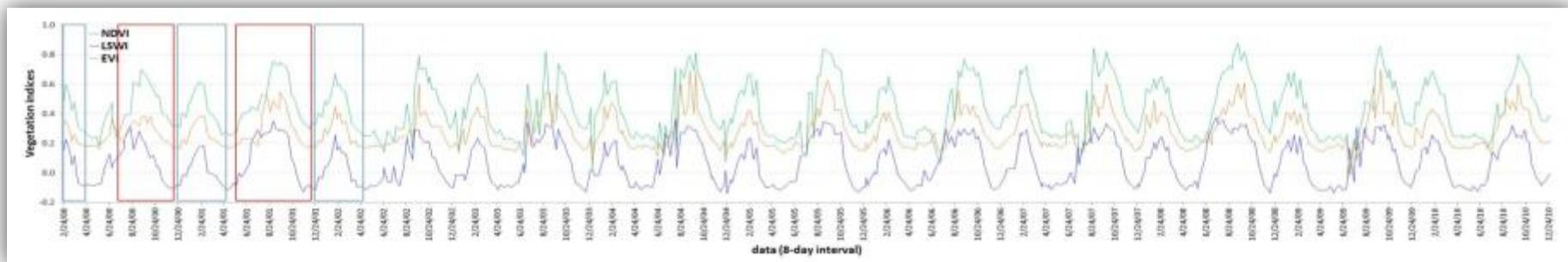
View data as a series of graphs: [Graph Data](#)



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 censor LULC validation and reporting
- g) Change detection and analysis
- h) Phenology of vegetation
- i) Extract time series spectra for each location



2011-06-25  
215.0304° O  
6.92° S  
View: NNE  
462m altitude



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

Google

# Earth Observation and Modeling

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Home About Us Dataset Photo Visualization Models iCarbon GeoHealth Education Workshop

## Global Geo-Referenced Field Photo Library

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Home | Xiao2007's Account | Upload | Log.out | Admin Center | Query | Map.Query

Search by coordinates:      Search by date:      Search by metadata:      Search by region:

Longitude min: Longitude max: From: Categories: Countries: All All

Latitude min: Latitude max: To: Users: Geographical: All All

Search by keywords:

Submit

15487 photos

Double crop

Day of the year 10-day interval: 2004-06

Legend

- Single crop (only rice)
- Double crop (two rice)
- Double crop (one rice; one others)
- Double crop (two others)
- Single vegetation (crops+others)
- Evergreen forest
- Others

