Tutorial

DATA DOWNLOAD

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Getting started

Website: http://www.terra-i.org

Before downloading, a "user account" must be created on the website or an existing user account logged into. First time users must fill out the form to create a new account. This can be done in different ways as shown below:

Create new user account
At the top of the Terra-i web page, there are several ways to create a new user (Figure 1) that all lead to the registration form.
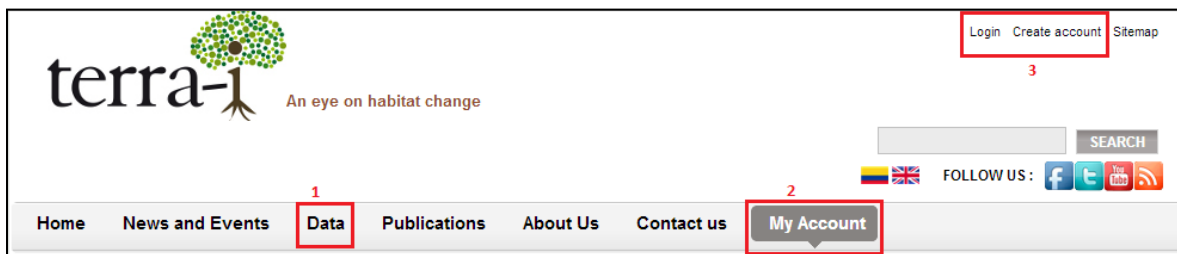

Figure 1. Main menu

1. Data: an orange square is displayed (Figure 2), which indicates that it is necessary to create an account by clicking on the "*registration form*" link.
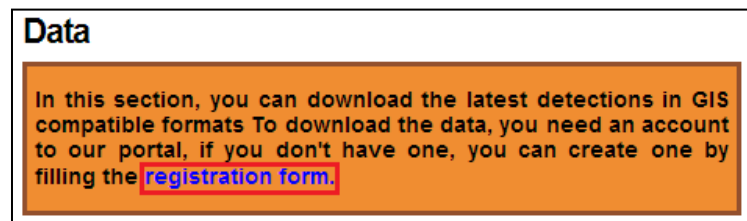

Figure 2. Data section

2. Sign in to my account (Figure 3): If an account has already been created, simply enter the username and password for the account. If otherwise, create a new account by clicking on "*Profile Registration*".
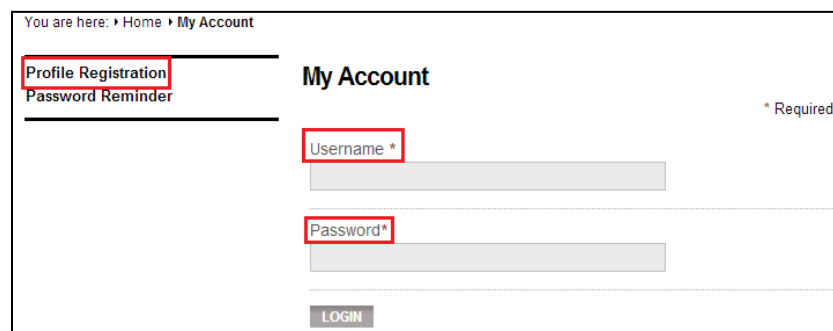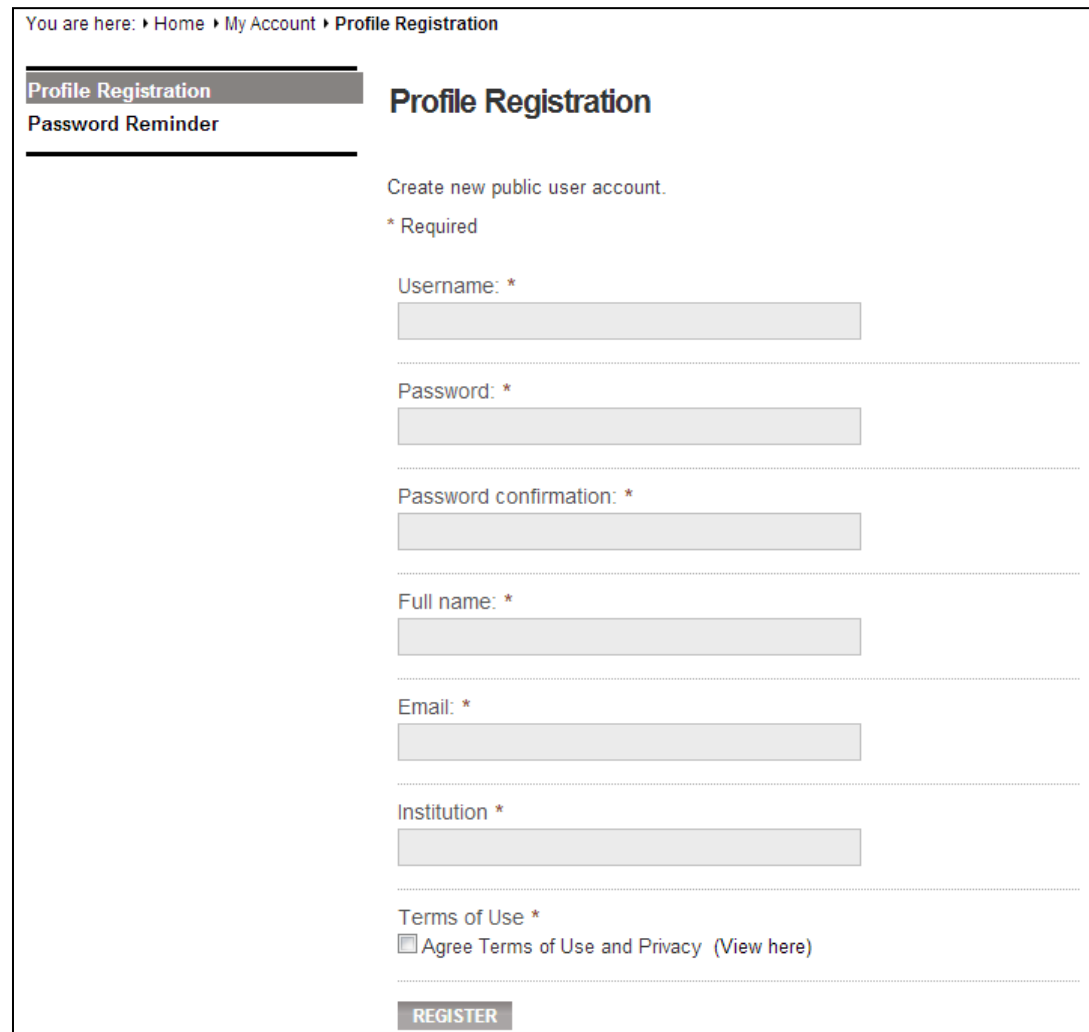

Figure 3. Login to my account and profile registration

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3. Profile registration: create a new user account by filling in the registration requirements.

The information contained in the registration form (Figure 4) is necessary to keep updated statistics in our user database on the people and/or organizations that are interested in acquiring Terra-i data.

Figure 4. Registration form

Notes

After creating and/or logging in with the user account, click on "data" in the main menu (1) to display a complete menu on the left side. The side menu contains the following options:

- Description
- Download data on habitat change
- Visualise habitat change
- View videos
- FAQ

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terra-i
An eye on habitat change

Data download

Clicking on the "*Download data on habitat change*" option (Figure 5) opens a viewing pane that shows the available data in a given map area. The boxes indicate the MODIS tiles covered by Terra-i. There are two ways to download data:
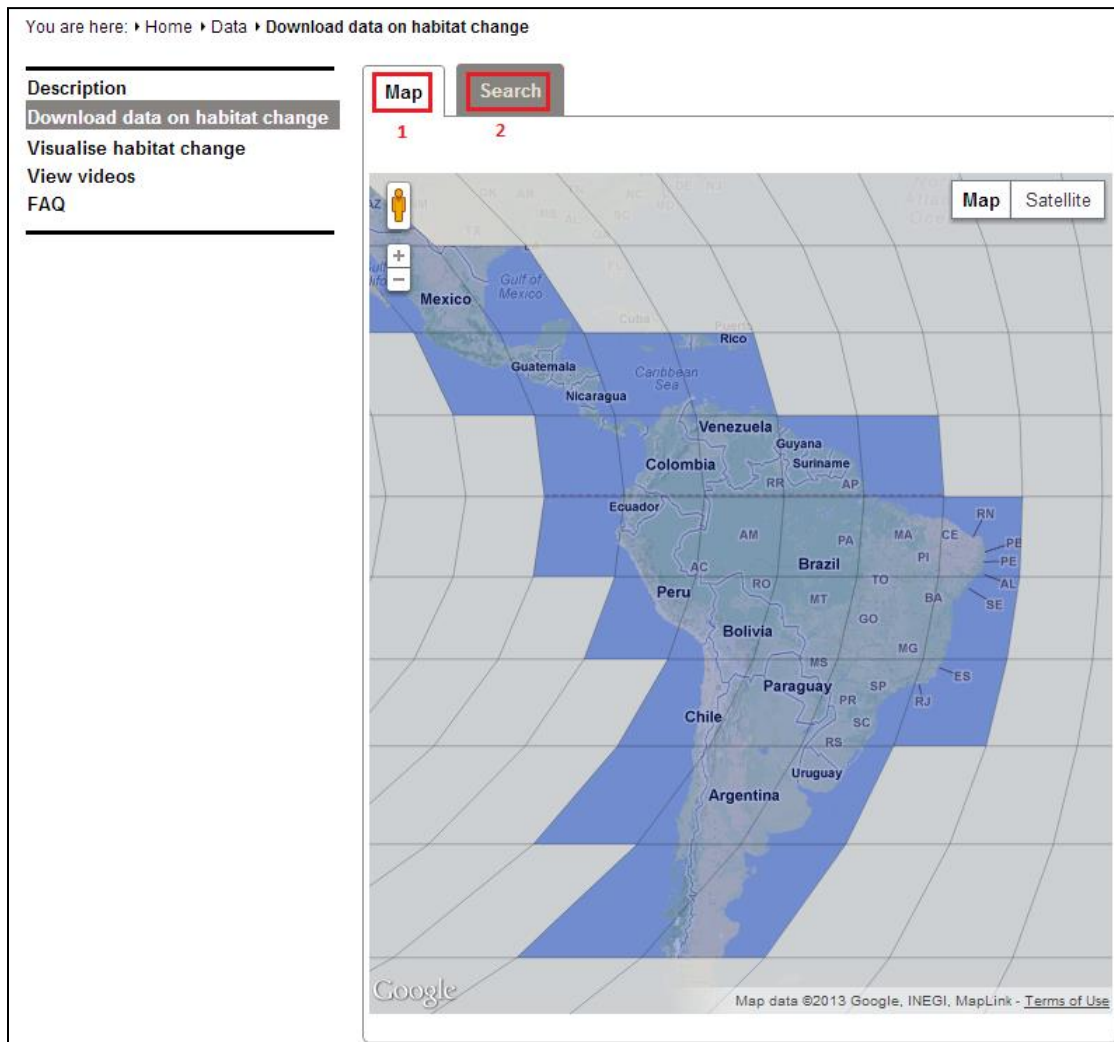

Figura 5. Data download

1. Map tool: select the area of interest by clicking on the box or tile. A pop-up box will be displayed showing the available data as well as the tile information (Figure 6).
   1.1 Tile information contains the following:
     1.1.1 Basic information: name and coordinates (upper-left and lower-right corner) by tile.
     1.1.2 Administrative information: list of countries contained in tile, other administrative levels (second or third), as well as protected areas by country.
     1.1.3 Ecosystems: Describes the different types of ecosystems by tile.

Figura 6. Information by tile

1.2 Set of available data: contains all detection files available for download (Figure 7).

Figura 7. Available data sets

1.2.1 Cumulative Detections: contains accumulated loss detection (deforestation or habitat loss) data by year.

1.2.2 Detections: contains loss detection data for 16 day intervals.

1.2.3 Cumulative Floods: contains accumulated flood detection data by year.

1.2.4 Increase: contains accumulated increase detections data by year.

Figure 8 gives an example of how accumulated detection data is displayed, from the initial to the final date of the detection data. The beginning of file name indicates the kind of detection. In this case, deforestation data (decreases) are signified with a "d", increase data with the letter "i", and flood data with the letter "f". The detection type is followed by the name of the tile and the analyzed period.

Cumulative Detections			
From	**To**	**Filename**	
2004.01.01	2004.12.18	d_h10v08_all_2004-1_2004-353.asc.gz	
2005.01.01	2005.12.19	d_h10v08_all_2005-1_2005-353.asc.gz	
2006.01.01	2006.12.19	d_h10v08_all_2006-1_2006-353.asc.gz	
2007.01.01	2007.12.19	d_h10v08_all_2007-1_2007-353.asc.gz	
2008.01.01	2008.12.18	d_h10v08_all_2008-1_2008-353.asc.gz	
2009.01.01	2009.12.19	d_h10v08_all_2009-1_2009-353.asc.gz	
2010.01.01	2010.12.19	d_h10v08_all_2010-1_2010-353.asc.gz	
2011.01.01	2011.12.19	d_h10v08_all_2011-1_2011-353.asc.gz	
2012.01.01	2012.05.08	d_h10v08_all_2012-1_2012-129.asc.gz	

Figure 8. Cumulative detections

Figure 9 shows an example of how the detection data are divided in 16 day intervals, starting with the name of the tile and followed by the detection date.

Detections	
Show 5 entries	
Search:	
Date	**Filename**
2004.01.01	h10v08_det_2004-001.asc.gz
2004.01.17	h10v08_det_2004-017.asc.gz
2004.02.02	h10v08_det_2004-033.asc.gz
2004.02.18	h10v08_det_2004-049.asc.gz
2004.03.05	h10v08_det_2004-065.asc.gz

Figure 9. Detection data by 16 day intervals

Note: The data are compressed *.gz, and contain the file in ASCII format.

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2. Search tool: the "download data" window also displays a search engine interface where: (1) a dropdown list "*Folder*" displays options for data query by country, second or third administrative levels, protected or indigenous areas, and ecosystems; (2) a dropdown list "*Condition*" contains Boolean query options such as "equals", "starts with", "ends with", and "contains" that can be used to filter the data search; (3) a final box where the full or partial name of the target area must be written to complete the search. Figure 10 shows an example of a search using the category country and the condition "*Equal*" to find data related to "*Colombia*" AND "*Brazil*". After clicking the Search button, a box, displayed at the bottom of the window, shows the tile(s) that fulfill the search query.

Figure 10. Example of the Search tool