

Motherplanet Inc. Earth Explorer 6.1 User Manual

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Welcome to Earth Explorer 6.1 User Manual

Thank you very much for your interest in Earth Explorer! With this User Manual, you will have a better idea of Earth Explorer, 3D interactive digital world map with high-resolution.

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1. Introduction

Earth Explorer 6 is GPS Enabled digital map software with high-resolution satellite imagery, shaded relief topographic imagery and blending imagery of the two. It also include location information of 270 countries and regions, 50000+ cities, 15000+ islands and 50000+ earthquakes from 1973; And outline information of political boundaries, rivers, lakes, coastlines of the world and etc. All those map information was integrated together for providing a total 3D view of our beautiful planet earth. You can place your own placemarks and path routes to the map, show GPS tracks on the map and keep them with the maps if you connected with a GPS device. Beside these, it has many other interesting functions, you can regard it is a kind of educational scientific software of geography.



Figure 1 First look of Earth Explorer 6.1

Feature list of Earth Explorer 6.1:

1. Real-time satellite map GPS tracking on vehicle/ship/plane;

2. 30m-res satellite image(Landsat7) and 90m-res SRTM picture exploring in online/offline mode;
3. Include information of 270 countries and regions, 40000+ cities, 15000+ islands, 50000+ earthquakes from 1973 and vector layers includes political boundaries, coastlines, rivers, lakes, longitude-latitude grids;
4. User can add their own Placemarks, Paths, GPS Tracks to Earth Explorer;
5. User can define and add their own map style to Earth Explorer;
6. Support NMEA-0183 compatible GPS receiver;
7. Other functions like Measure and calculate distance and bearing between any two location, find by name, show day/night shadow effect, adjust Gamma, and etc.
8. Download maps to disk cache in background (Advanced license).

1.1 System Requirements

The minimum system requirements for Earth Explorer 6.1 are as follows:

1. Pentium Processor, PowerPC G3 800 or faster
2. 512MB RAM or more
3. At least 50 MB free disk space
4. Windows ME/Windows 2000/NT/Windows XP/Windows Vista/Win7 or Mac OS X
5. Internet connection

1.2 Installation

Installation process of Earth Explorer 6.1

Installation of Earth Explorer is very easy and automatic. Please complete the following steps to install Earth Explorer 6.1

For Windows users

Download "InstallEarthExplorer.exe" from Motherplanet.

For Mac Users

Download "ee_mac.zip" from Motherplanet. This is a zipped file. Users will need to unzip the file after download.

To start the installation, please double click the file that you have downloaded.

Installation:



Figure 1-2-1 Installation Step 1, click Next to proceed

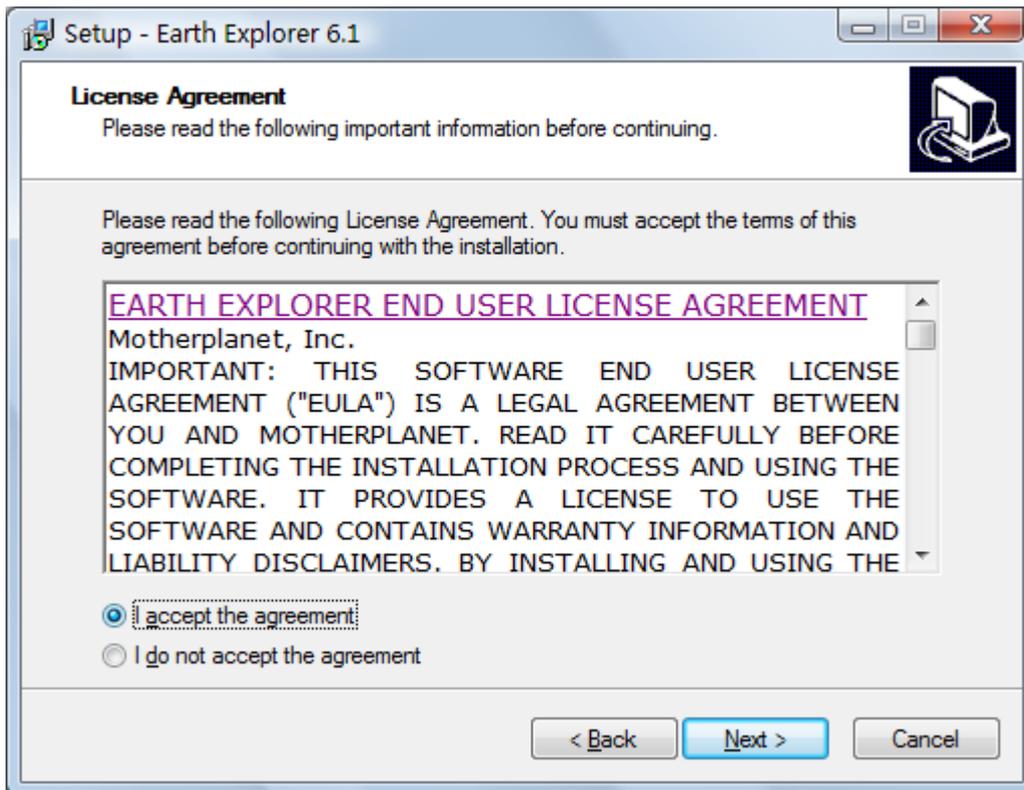


Figure 1-2-2 Installation Step 2, select "I accept the agreement" and click Next to proceed.

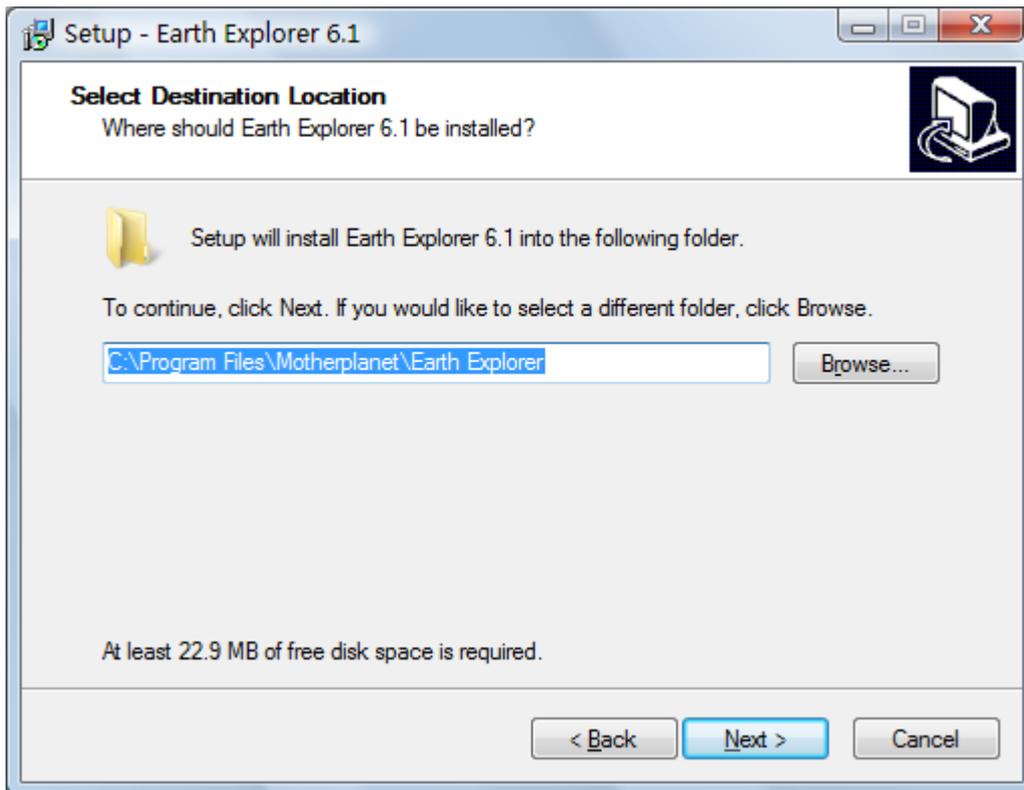


Figure 1-2-3 Installation Step 3, select an installation destination and click Next to proceed.



Figure 1-2-4 Installation Step 4, rename install folder (if needed) and click Next to proceed

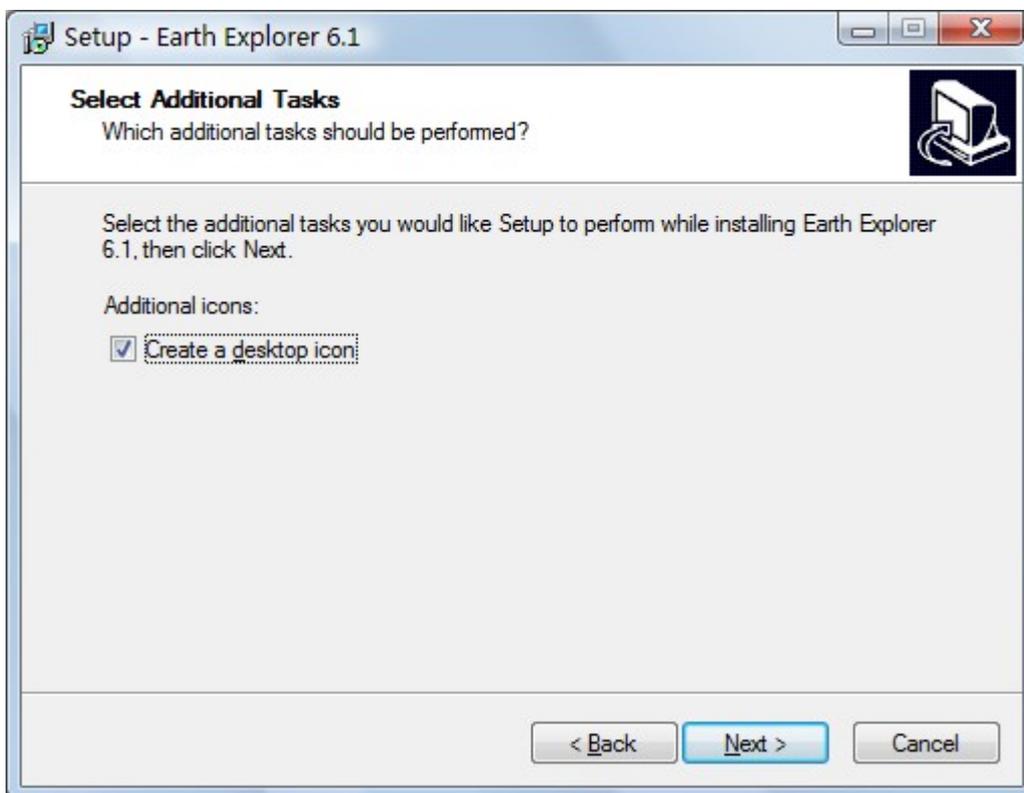


Figure 1-2-5 Installation Step 5, click Next to proceed.

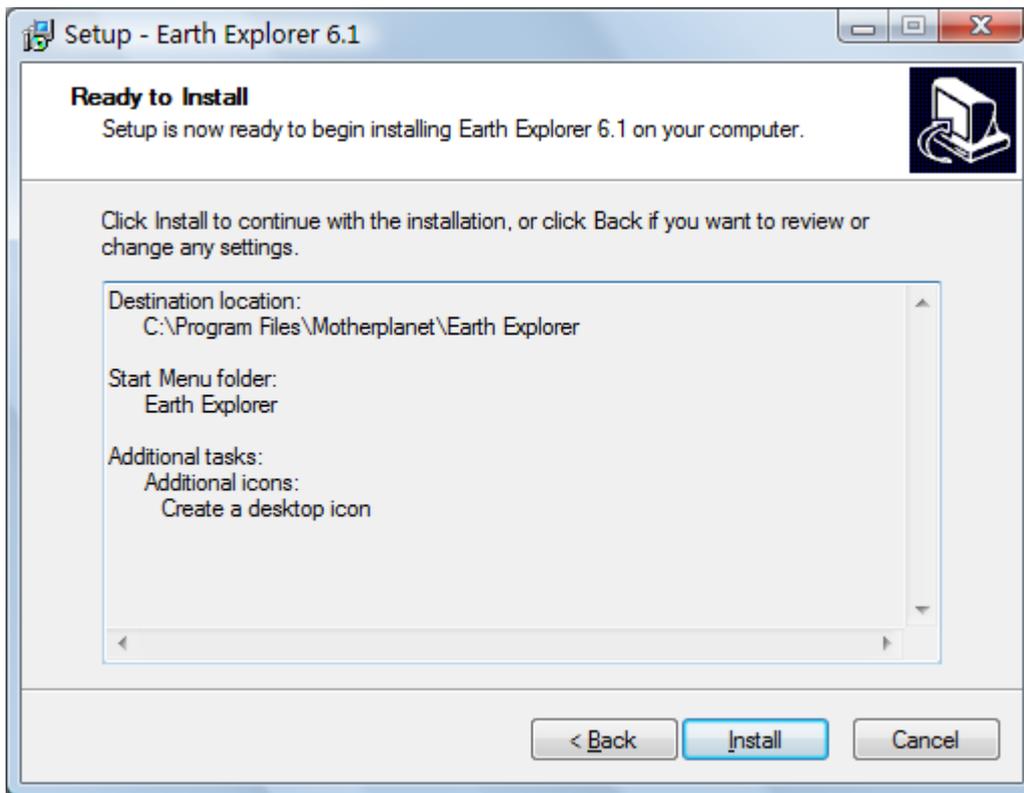


Figure 1-2-6 Installation Step 6, confirm above information and click Install.



Figure 1-2-7 Installation Step 7, Installation continues.



Figure 1-2-8 Installation Step 8, when installation finished, click Finish to exit.

When you want to launch the Earth Explorer, double click on the Earth Explorer icon and start using the program. For an unregistered copy, a registration box will ask if you want to register now.



Figure 1-2-9 Launch Earth Explorer

Note: Users can experience full function Earth Explorer 6.1 in a trial mode. Even if you do not have a registration key, you may also use the program by selecting Register Later. If you have bought license key and serial number for Earth Explorer 6.1, you should select Register Now to enter your keys for authentication and verification.

If you forgot your license key and serial number, please feel free to contact Motherplanet support at support@motherplanet.com.

1.3 Registration

Earth Explorer provide full resolution and full function for evaluation purpose. It will pop up registration hint dialog every five minutes. If you want keep this software please purchase and register it. Motherplanet provide life time free upgrade for registered user. Please order Earth Explorer with Regsoft and register it with the supplied license key and serial number promptly after your purchase.

To register Earth Explorer, you will need to place an order from [Motherplanet's website](#) in the first place.

1) Order Earth Explorer from Motherplanet.

You can purchase Earth Explorer by placing an online order from our consigned partner, Regsoft, who accepts Visa, MasterCard, Euro Card, American Express, Discover and JCB cards.

Right after you order Earth Explorer, a license key and serial number will be emailed to your email box with your receipt. You will need the key pairs to finish registration.

If you have any question regarding order, please feel free to contact Motherplanet sales at sales@motherplanet.com.

2) Register with the License Key and Serial Number

Double click on the Earth Explorer icon on your desktop to launch it.

Earth Explorer enquires of your license key and serial number on start up. Copy and paste the license key and serial number into the proper boxes.

If you have already launched Earth Explorer, go to **Help > Register**, then copy and paste the license key and serial number in the proper boxes.

If you have any question regarding registration process, please feel free to contact Motherplanet sales at support@motherplanet.com.

2. How to Use

In order to let you have a detailed understanding on how to use Earth Explorer 6.1, we came up with four separate parts on the icons on the Toolbar, items in the Menu, how to modify Preferences to make a better look and a full list of Keyboard Shortcuts.

2.1 Toolbar

1) Save Image Map

Save a bmp or jpeg format picture of the place you like.

2) Print (and preview) digital map

You can decide what to print by defining the center of the map and the size and resolution of the map before hand. And then, you may preview the printing result and print out the digital map.

3) Satellite view mode

Earth Explorer can show pure satellite image map view for user to browser the whole earth.

4) Blending view mode

Earth Explorer can blending the satellite view and DEM view to a special map mode for user to browser the whole earth.

5) DEM view mode

Earth Explorer can show pure digital elevation map (DEM) view for user to browser the whole earth.

6) Add Place Mark

a) You can add your own comments over a specific place. For instance, you can type in "My home." over the place you live.

b) If you do not know the exact Latitude and Longitude information, Find Location... function may assist you with it.

c) You can add only one place at a time. Press Add to confirm your modification.

d) When you are done, you will see a small balloon comment over the place you have just modified.

e) Select the place mark item from the side list and click right mouse button for choosing edit/delete operation.

Add Place

Name:

Description:

Location

Latitude: Degree

Longitude: Degree

Altitude: Meter

7) Add Path

a) You can create a path between lots of places. For instance, you can figure out a well-planned path that runs from your home to a destination.

b) If you do not know the exact Latitude and Longitude information, Find Location... function may assist you with it.

c) You can add more than one place at a time. Press Add Points to add more places in your path. Press Add to confirm all your modification. Press Cancel to quit without saving.

d) When you are done, you will see a vector path over the places you have just added.

Add Path

Name:

Width:

Points

Latitude	Longitude	
64.152176	73.22177	
56.96526	99.63752	

Location

Latitude: Degree

Longitude: Degree

e) Select the path item from the side list and click right mouse button for choosing edit/delete operation.

8) Boundaries

Check this button to add/remove Political Boundaries/Coastlines/Rivers/... on the map.

9) Countries

Check this button to add/remove countries name on the map.

10) Cities

Check this button to add/remove cities information on the map.

11) Islands

Check this button to add/remove islands information on the map.

12) Earthquakes

Check this button to add/remove earthquakes information on the map.

13) Rotate the Earth

Make the digital Earth spin the way you wish it. Turn left, right, upward and downward. Click Stop to end the spinning.

14) Zoom in/out the map

You may either click on the buttons to zoom in or zoom out, or you can scroll up or down your mouse to get the same results.

15) Drag/Center/Measure/GPS Navigation

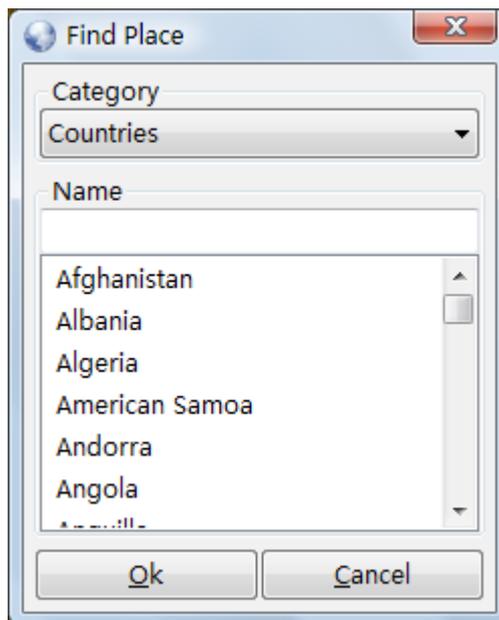
Drag and move the image to the place you wish; Make a spot the center of your research; Measure distance and bearings between two places. To enable bearings measurement, you should check Calculate Bearing in Tools > Preference > Bearing. If you have connected to a GPS device, the GPS Navigation button is enable. You can press this button to switch this software between GPS Navigation mode and other modes.

16) Day/Night

Day/Night feature will mimic the switching effect of day and night.

17) Find

You can find a country or city or island by its name.



Find location dialog

18) Preference

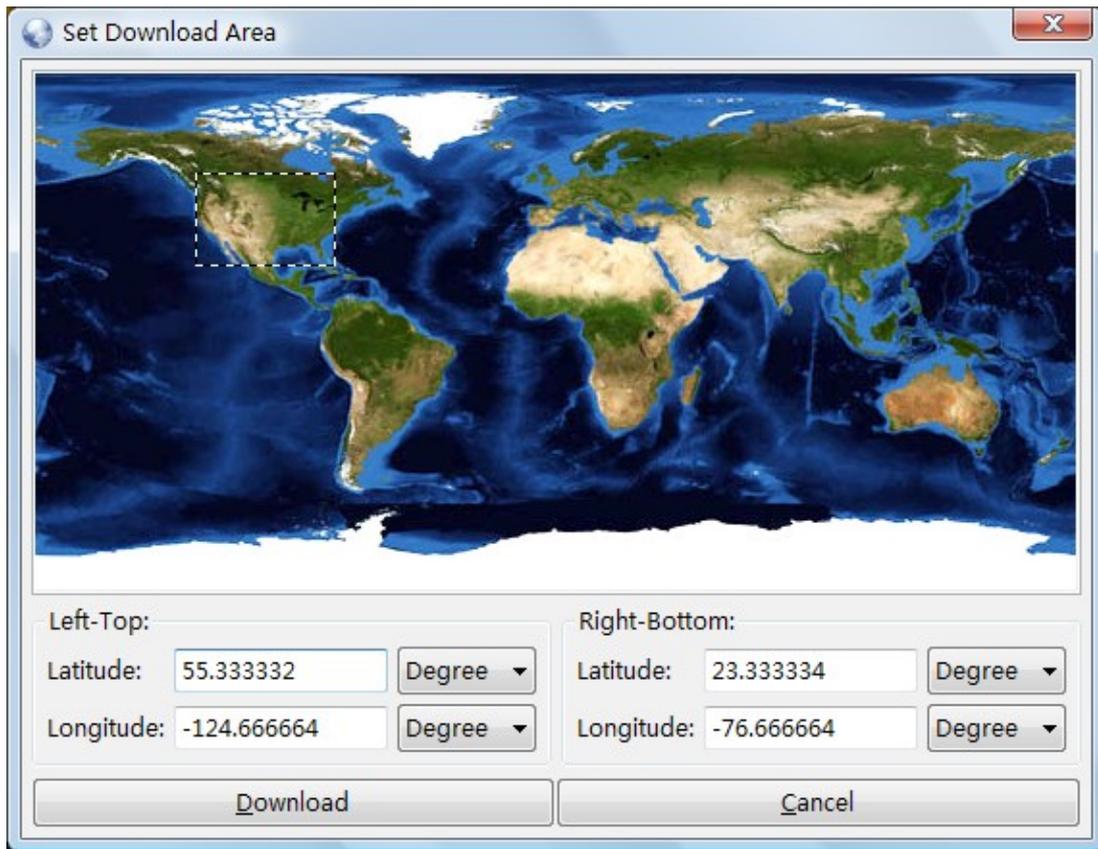
Modify map display-related preferences.



19) Buy Now

If you did not buy the Earth Explorer you are using, you can click on this button to order a key pairs for your permanent use. **20) Register**

When you have license key and serial number for the Earth Explorer, you can register them to the copy you are using. After success registration, you can use it with full access for as long as you like.



21) Download maps to disk cache in Background

Note: this function is for Advanced License only

Download maps to disk cache in Background. Please make sure you have more than 40GB free disk space if you would download the full images set to the disk.

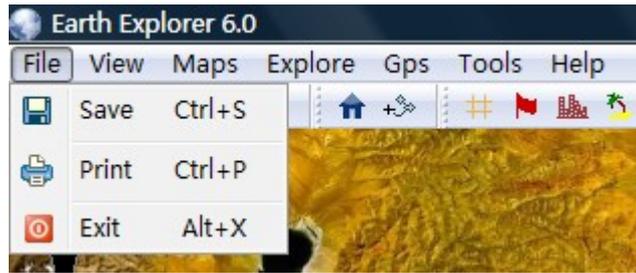
22) Help

Seek for help? Read online educational materials or read this Help document or simply send us an email (support@motherplanet.com)

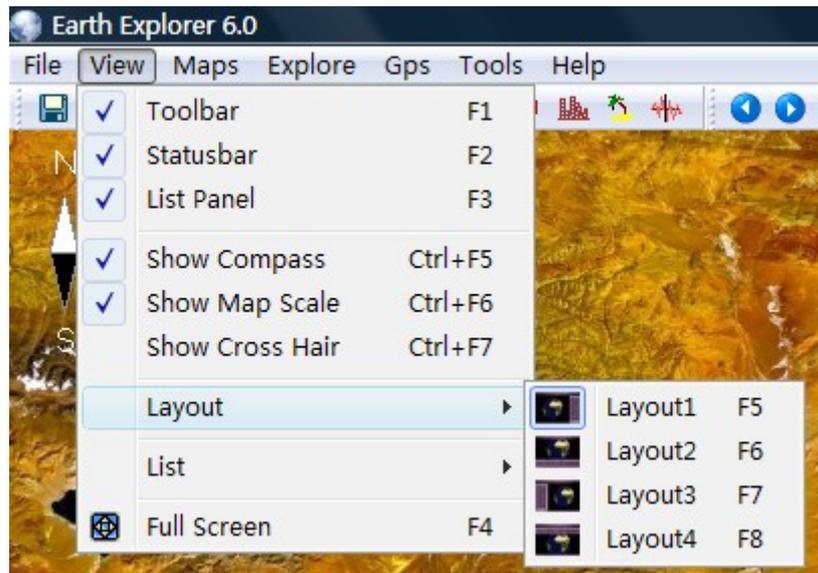
2.2 Menu

In a wish not to reiterate the information that is already provided on Toolbar, we have items that are listed on the Menu, but may not be used as frequently as those on the Toolbar. Please make sure you have read the **Toolbar section**.

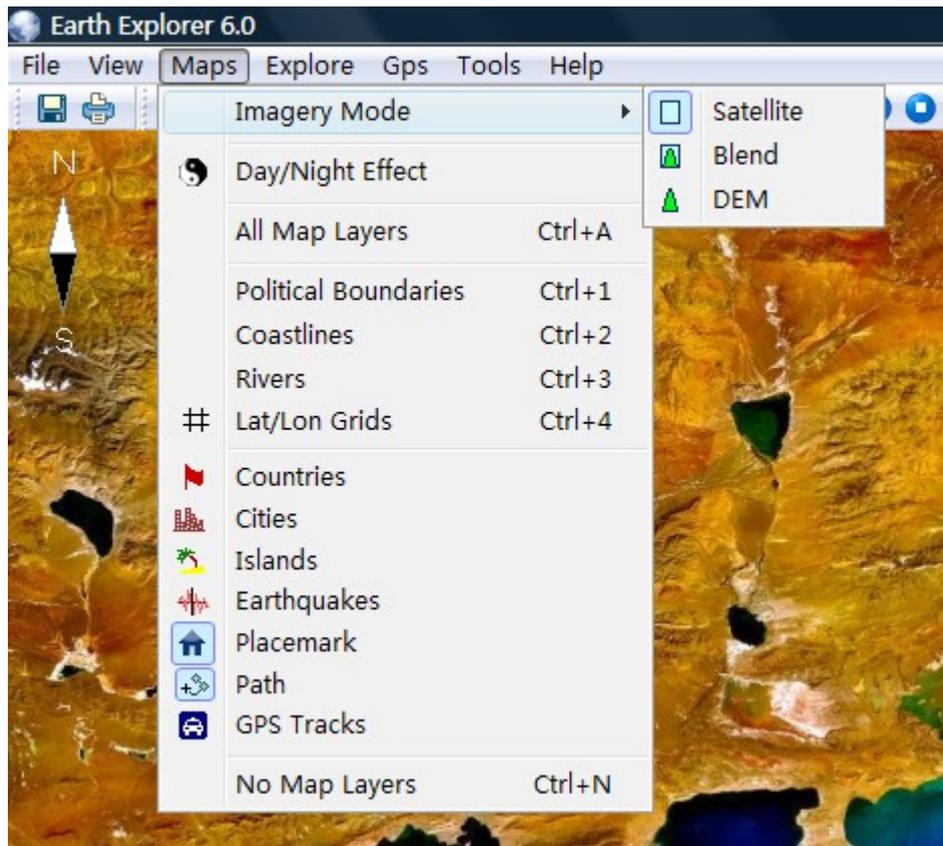
➤ **Menu → File**



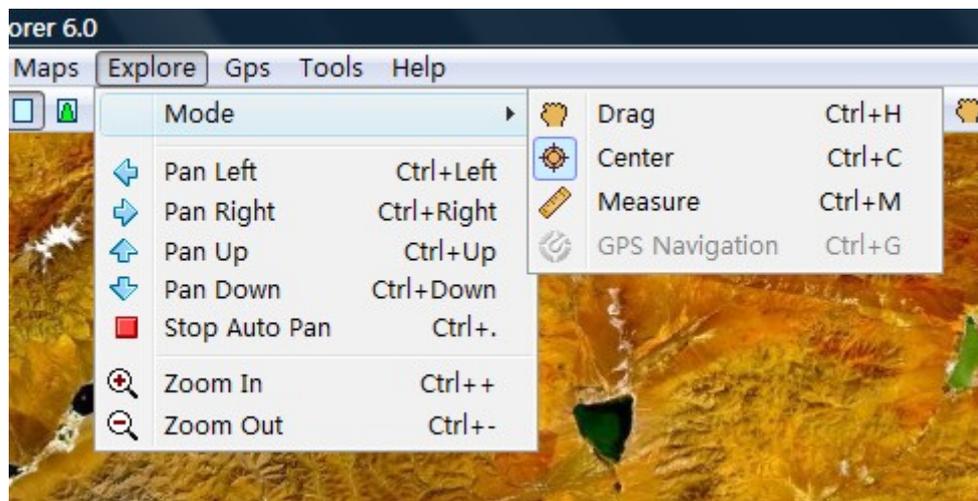
➤ **Menu → View**



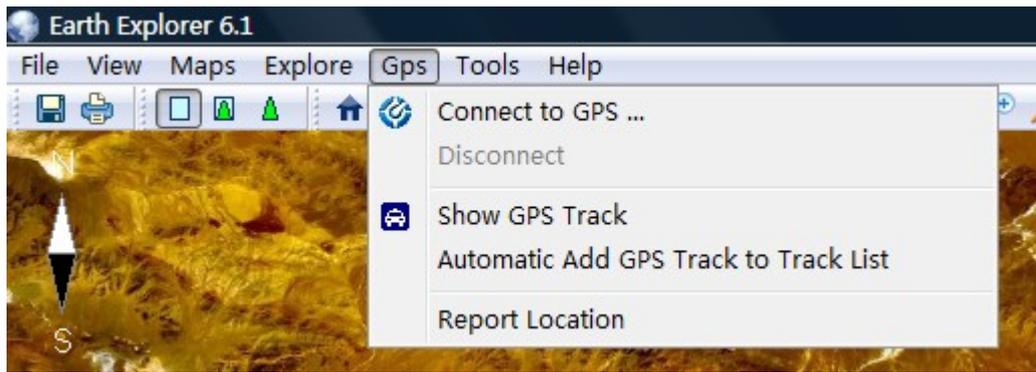
➤ **Menu → Maps**



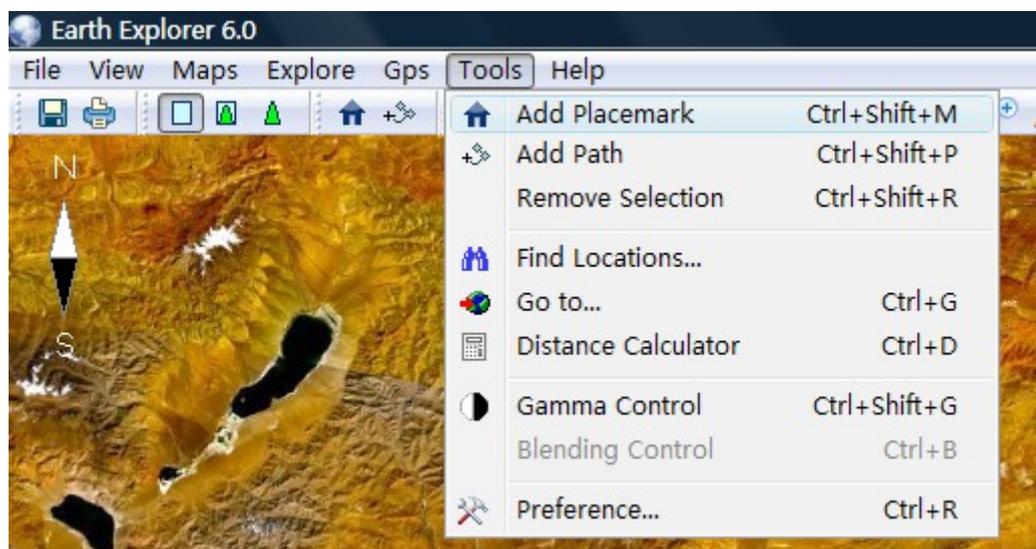
➤ **Menu → Explorer**



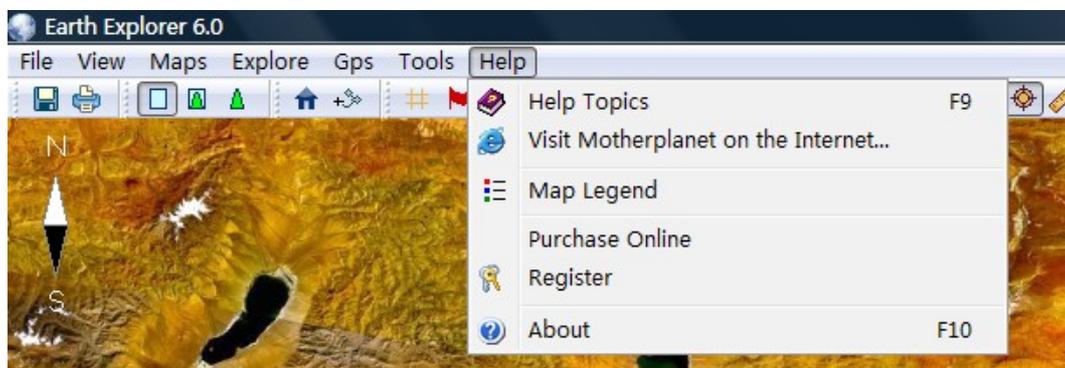
➤ **Menu → GPS**



> **Menu → Tool**



> **Menu → Help**



Less frequently used functions on the Menu

1) Maps > Day and Night Enabling Day and Night, you will have a better idea about the approximate time the specific spot is in. When it's in a shadow, it's night; when it's in light, you know it's day.

2) Tools > Find Location... With the Find Location tool, you won't be scrolling down the List Panel to find a country, city or island.

3) Tools > Go to... If you have specific Latitude and Longitude information of a place, you can use this feature to spot the exact location.

4) Tools > Distance between... This function calculates the distance between two places. You will have to know the name of the two countries, cities or islands, or latitude and Longitude information of the two places.

5) Tools > Gamma Control Do you think the picture isn't bright enough? You may increase the Gamma value. Gamma values can increase from 1.0 up to 2.0 by 0.1 increments. Check the preview box and you will see the outcome without closing the Gamma Control window.

6) Tools > Blending Control The default Blending percentage is 50%. The outcome of blending would be taking Satellite map and Topographic map half by half. You can change it to the best visual effect by changing the Blending value.

7) Tools > Preference With Preferences, you can adjust Field Of View (FOV), convert Distance Unit (km, mile and nm), change Lat/lon Format, choose a suitable Resample Method, turn on/off the starry background, increase or decrease Grid Step. And for further details, please click [here](#).

18) Help > About About refers to information regarding Earth Explorer version, registration and contact information of Motherplanet.

2.3 User-definable Location Map

What can I do with User-Definable location map?

Users can add and display user-definable map to Earth Explorer. With the user-definable Location Map, users can manage these options.

1) Display the map at the style your wish;

2) Define whether or not to enable the map on the Menu/Search/Table region;

What can be added to user-definable location map?

You can add anything you would like to display on Earth Explorer, as long as you provide the map definition file and put your data to a data source file.

1 Map Definition File: A XML file define the format of the data source file, the display style of the map, and how to integrate the map with Earth Explore.

2 Source Data File: to store your data in the file with the format you defined in the map definition file.

Both files can be edited with editing tools like Word, Notepad and Ultra Edit or complicated ones like Dream weaver(if source data file not compressed). After you complete these files, please remember to move them to Location folder under the installation path of Earth Explorer or the location folder you defined. Open the file "map.all" with a text edit, and add a new line with the name of the map definition file. For instance, if you install Earth Explorer in C: Drive, then you will need to move both files to C:\Program Files\Motherplanet\Earth Explorer\location folder.

First you will need to create the above mentioned map Definition File and Source Data File.

Map Definition File(.xml)

A Definition File consists of six items, File, Data, Table, Search, Tips, and Render. These items define a map and manage the Source Data the way you want. Each item serves a different function. So let us have a closer look at how they work.

Compound Content:different contents can be joint with a plus mark (+). For instance, compound contents can be written in this format: "My Name" + name. While contents within quotation marks are constants; while contents without quotes are data defined in Source Data File.

Here's an example of a complete Definition File for you to refer to.

1. **File** - general definition over these sub-items.

1. Name: Give your map a name, which can be displayed in the Menu, Table (or Column list) and Search options.

2. Icon: Icon file name, the icon will display with Name.

3. Menu > True or False: This defines to show or to hide the map Name in the Menu.

4. Table > True or False: This defines whether or not add the map to the table

region like Countries, Cities, Islands and Earthquakes.

5. Search > True or False: This define whether the location items define in the map can be searched in Earth Explorer, true or false.

6. Overlay > True or False: This defines whether or not your data allows to be overlaid by other maps like Earthquakes.

7. Living: Define whether a map is a live map. An example routes:

```
<living>  
  <enable>true</enable>  
  <refresh>10</refresh>  
</living>
```

enable: Define whether a map is a live map, true or false

refresh: Define the refresh period of a live map in seconds.

8. List: Define the web URL(begin with "http:" of "https:") or file name of you data source file, which contains the data you need to display in Earth Explorer. Earth Explorer will add any map included in the file "map.all" and load the location items stored in the data source file at start. If the map is live, earth explorer will fetch the source data define by the map periodically.

9. Compress: This will determine if your data gets compressed in order to save space.

10. Filter: This one controls the density for display. You can set minimum and maximum number of display in order to make over-populated data area less crowded and vice versa.

11. Class: If you wish to control the display of you map in a deep level, this is what you want. You can implement this in java language, the most populated compute language today. Place the binary file name of you java extension file name(.class) in this line . Please refer to the documents locate at "Install folder\API" for details. If you have any question, please discuss it in the <http://forum.motherplanet.com> or write to support@motherplanet.com .

2. **Data** - define the format of Source Data File. Here with Data item, the following information are important.

1. Each datum need to be aligned in a separate line.

2. Entries within the same line should be separated with this mark "|".

3. Information like Latitude and Longitude is a must.

4. Data formats include "latitude", "longitude", "int", "long", "bool", "string", "float" and "double".

3. **Table** - define width, title of the Column lists. `<table_column title= "Column Name" width="a number for column width">Compound Content</table_column>`.

Note: content supports "Compound Content" format.

4. **Search** - defines search subjects. Here name in this `<key>name</key>` represent the same name in the `<data_column>`.

Note: content supports "Compound Content" format.

5. **Tips** - organizes the layout of cursor Tips. With the example on the left, Tips will display your information in this order, name, province, country, population, inhabitants and other comments you have added to Source Data File.

Note: content supports "Compound Content" format.

6. **Render** - defines color, font and order of text and images displayed on the 3D Earth Explorer map.

Note: content supports "Compound Content" format.

1. Text: fully supports Compound Content input.

2. Image: define your image name and its location.

3. Html: If you click the item on the map, an browser window will pop up with the content you defined in this node. Note: if this content is begin with "http:" or "https:", Earth Explorer will treat it as a URL and will open the link in the browser window. Otherwise render it as html content in the browser window directly.

Note: If the content include HTML tag, remember to bound this content with "`<![CDATA["` and `"]>`". For example:

```
<html><![CDATA[name+<br><a href=http://www.google.com/search?q="+name+">"+name+</a>]]></html>
```

4. Color: define color of text, RGB format supported. For instance, you can set the color to "160, 160, 160".

5. Font: define font of text, including family, size and style. A quick example: `"Verdana, 8, bold"`

6. Order, add data_column name here and display order is dependent on size of the column. Largest column always displays in the first place.

Source Data File(.lst)

Compose a ".lst" file with the above mentioned editing tool. Here are two rules to follow when it comes to create a Source Data File.

Each LocationItem should be put in line by line.

And different entries in the same line should be separated with this mark "|".

Then you will need to allocate these files properly.

Take the one with C drive as installation path for example, you will need to paste the two files you have previously created to C:\Program Files\Motherplanet\Earth Explorer 6.1\location folder.

Last but not least, add these two files in a file named map.all in this input format.

```
countries.xml  
cities.xml  
islands.xml  
eq.xml
```

Add your own "definition_file.xml" there in a new line.

Extra Content – Custom the appear of you Location Item

If your map need a special and complex display style, you can implement it with a extention write in Java language . It's not hard to extend LocationItemImpl to achieve this. And here is sourcecode of the LocationItemCity.java used to define the city map of the software:

```
package com.motherplanet.location.test;  
  
import java.io.*;  
import com.motherplanet.location.define.*;  
  
public class LocationItemCity extends LocationItemImpl {  
  
    String imagePath = null;
```

```
long population;

public LocationItemCity(LocationMap lmap, String content) {

    super(lmap, content);

    population = Long.parseLong(getDataColumn(5));

}

/**
 * return the image file name displayed on the map
 */

public String getImage() {

    if (imagePath == null) {

        String key = null;

        if (population >= 1000000) {

            key = "1000";

        } else if (population >= 500000) {

            key = "500";

        } else if (population >= 100000) {

            key = "100";

        } else if (population >= 20000) {

            key = "20";

        } else if (population >= 5000) {

            key = "5";

        } else {
```

```

        key = "1";
    }

    String adm = getDataColumn(5);

    switch (adm.charAt(0)) {

        case 'R': //region admin

            key += "r";

            break;

        case 'C': //country admin

        case 'B': //both region and country admin

            key += "c";

            break;

    }

    imagePath = "images" + File.separator + key + ".gif";

}

return imagePath;

}

/**
 * return the font used to show the city's Name on the map.
 */

public String getFont() {

    //population more than 1000, 000 use the bold font

```

```
int threshold = 1000000;

if (getParent().getRenderedCount() < 20) {

    threshold = 100000;

}

if (population > threshold) {

    return "verdana,7,bold";

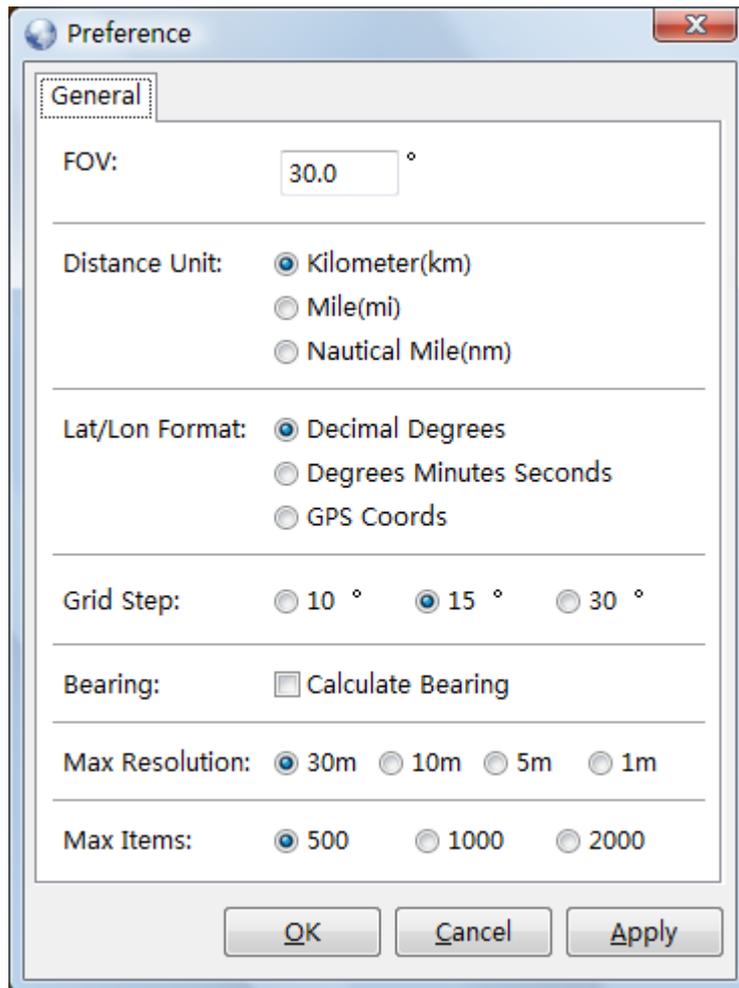
}

return "verdana,7,normal";

}

}
```

2.4 Preference



As you can see from this screen shot,

1) **FOV** Field of View. You may enter any number varying from 1 to 90. Generally the default 30° guarantees a clear bird's eye view of our Motherplanet. The smaller the number is, the closer will be the view. You can use it much the way like you zoom in or zoom out.

2) **Distance Unit** This 3.5 new version added two distances unit for special needs, Mile123456781234567812345678g and Nautical Mile.

3) **Lat/Lon Format** The following calculators will Convert Lat / Long Coordinates between three different units types: Degrees Minutes Seconds - DD MM SS (Ex = 39 54 32 W). Decimal Degrees (Ex = 39.8967deg) - minutes and seconds are converted to decimal format. GPS Coordinates (Ex= 39deg 58.589min) - seconds are converted to decimal format.

4) **Grid Step** Define the Lat/Lon Grids step, 10°, 15° and 30°.

5) **Bearing.** It's not enough to have distance calculated. Get the bearing information too. Check to enable it.

6) **Max Resolution:** The max resolution for the map. 30M, 10M, 5M and 1M per pixel. 10M, 5M and 1M per pixel resolution is provided for GPS Navigation purpose.

7) **Max Items:** Maximum items number of a thematic map can be displayed in screen at the same time.

2.5 Keyboard Shortcuts

This is a full list of Keyboard Shortcuts for Earth Explorer. You can print this page out and learn to utilize the keyboard shortcuts.

Shortcut	Function
F1	Display/turn off Toolbar
F2	Display/turn off Status Bar
F3	Display/turn off List Panel
F4	Enable/disable Full screen mode
F5	List Panel on the right
F6	List Panel at the bottom
F7	List Panel on the left
F8	List Panel at the top
F9	Help Topics
F10	About
Ctrl+1	Political Boundaries
Ctrl+2	Coastlines
Ctrl+3	Rivers
Ctrl+4	Lat/Lon Grids
Ctrl+5	Countries
Ctrl+6	Cities Positions
Ctrl+7	City Names
Ctrl+8	Island Positions
Ctrl+9	Island Names
Ctrl+0	Earthquakes

Ctrl+A	Show all map layers on
Ctrl+N	Turn off all Map layers
Ctrl+S	Save a picture
Ctrl+H	Drag mode
Ctrl+C	Center mode
Ctrl+M	Measure mode
Ctrl+Left key	Pan Left
Ctrl+Right key	Pan Right
Ctrl+Up key	Pan Up
Ctrl+Down key	Pan Down
Ctrl++	Zoom In
Ctrl+-	Zoom Out
Ctrl+P	Print
Ctrl+F	Find Place...
Ctrl+G	Go to...
Ctrl+D	Distance ...
Ctrl+F5	Show/hide Compass
Ctrl+F6	Show/hide Map Scale
Ctrl+F7	Show/hide Hair Cross
Ctrl+Shift+G	Gamma Control
Ctrl+Shift+M	Add Place mark
Ctrl+Shift+P	Add Path

3. FAQ

Here we provide the most frequently asked questions and their answers in a hope to provide solution for you before you contact our [Technical Support](#) .

Frequently Asked Questions:

3.1 About

1. What is Earth Explorer?

Earth Explorer 6.1 is GPS Enabled digital map software with high-resolution satellite imagery, shaded relief topographic imagery and blending imagery of the two. It also include location information of 270 countries and regions, 50000+ cities, 15000+ islands and 50000+ earthquakes from 1973; And outline information of political boundaries, rivers, lakes, coastlines of the world etc. All those map information was integrated together for providing a total 3D view of our beautiful planet earth. You can place your own placemarks and path routes to the map, show GPS tracks on the map and keep them with the maps if you already connected with a GPS device. Beside these, it has many other interesting functions, you can regard it as a kind of educational scientific software of geography.

2. How does it work?

Earth Explorer is a easy-to-use software. When you exploring the earth surface, imagery data is streamed to you PC from our web server and cached to your disk. With the multi-resolution and tiled image technology, you can access this huge information set and don't need to worry about your computer's memory limit.

3. What is the advantage of the Advanced License than the Standard License?

Earth Explorer with advanced license has two advanced features than Earth Explorer with standard license:

- 1) 250% speed to load map data from Earth Explorer remote server when you explore the not cached imagery.
- 2) User can start/stop threads to download maps data in background. This allow you to cache the maps data of a defined region to your disk, and used it without internet connection, such as use the Earth Explorer as a GPS navigation software on a plane, boat or a car. Please make sure you have enough disk space to cache the maps data, whole maps data of the world used by Earth Explorer is about 40GB.

3.2 How to Buy

4. Is your online order form secure?

Yes, it is 100% secure.

5. Is tech support free?

Yes! It's free for all.

6. Does it accept phone, fax and Euro checks orders?

Yes, it does. Please visit <http://www.motherplanet.com> for detail information.

3.3 Navigation with GPS device

7. What kind of GPS device supported by Earth Explorer?

Earth Explorer support NMEA-0183 compatible GPS mouse, CF GPS, Bluetooth GPS and other GPS receiver.

8. How to connect GPS device with Earth Explorer?

You can select the menu "GPS > Connect to GPS..." to connect to your GPS device. Earth Explorer will scan serial ports for possible GPS device at the first time. If successful the parameters will be saved as a default.

9. Can I display the GPS track in Earth Explorer?

Yes, you can display GPS track in Earth Explorer through check the menu item "GPS > show GPS track".

10. Can I add/edit/display GPS tracks in Earth Explorer?

Yes, you can. Please check the menu "GPS > Automatic Add GPS track to Track List" to add GPS track. When you select the menu "GPS > Disconnect" or exit the program GPS track will be added to the Track List. Edit the track, please select it from the table list and click it with the right-button of your mouse, a edit/delete choice will appear. To display the GPS Tracks map in Earth Explorer, please check the menu "Maps > GPS Tracks".

3.4 Fleet tracking and management based on Earth Explorer

11. Can Earth Explorer report my location to GIS database of our company in realtime?

Yes. Earth Explorer must connect with a GPS receiver to get the geographic information of your location in realtime at first; then you need to set Earth Explorer to report the location information to a remote server periodically through the menu:GPS->Report Location. The remote URL should receive the information and put it to the GIS database after processing.

12. How to display a living map of a vehicle fleet with Earth Explorer?

Earth Explorer can fetch living map data from a web location periodically. You fleet member should report their location to GIS database first, then you should add a user-definable map with living style, the content of <list></list> node in the map definition file set to a web link, the web server should generate the data source

content of the map as the required content in realtime when Earth Explorer request the link. So Earth Explorer will display the thematic living map. This can provide a solution to tracking/monitoring a vehicle/ship/airplane fleet in real time.

3.5 Details & Tips

13. What is different between registered version and unregistered version?

The unregistered version will hint you to register the software.

14. Does the un-registered version have a date expire limit?

Although the unregistered version is for evaluation purpose only, no date limit for free trial.

15. Does Earth Explorer need an internet connection?

Earth Explorer need an internet connection (broad band is better) to stream the maps data when you browser the maps. But if you have cached the data required to you disk cache, it will not access the internet.

16. What is the maximum resolution of the earth surface image?

The maximum imagery resolution of Earth Explorer is 30m per pixel. But you can set it to 10m, 5m or 1m per pixel to display GPS tracks clear.

17. What is the meaning of 1m resolution?

1m resolution is meaning a point in the picture represent a 1m*1m square in the real earth surface.

18. Do you provide Mac version of Earth Explorer?

Yes. We provide Earth Explorer for Mac OS X.

19. Is it free to upgrade it version 5.0 to the version 6.1?

Yes. It's free for customers, who had purchased previous versions of Earth Explorer, to upgrade to Earth Explorer 6.1. Just installed it and register it with the license information you have.

20. I have more questions; how can I contact you?

Please send your additional questions to support@motherplanet.com .

4. Glossary

Terms you should know when using Earth Explorer, in alphabetical order.

1. **Azimuth** the horizontal angle or bearing of a point measured from the true (astronomic) north. Used to refer to a compass on which the movable dial (used to read direction) is numbered in 360°
2. **Bearing** A direction on the ground or on a map, defined by the angle measured from some reference direction: this may be true (geographic) North, magnetic North, or grid North. Used also to refer to a compass on which the movable dial (used to read direction) is numbered as four 90o quadrants where N=0, S=90, E=180, W=270. See also azimuth.
3. **Coordinate** A set of numbers that designate location in a given reference system, such as x,y in a planar coordinate system or an x,y,z in a three-dimensional coordinate system. Coordinates represent locations on the Earth's surface relative to other locations.
4. **DEM** Digital Elevation Model. A digital representation of a continuous variable over a two-dimensional surface by a regular array of z values referenced to a common datum. Digital elevation models are typically used to represent terrain relief.
5. **Gamma** Informal. A measure of the brightness of mid-level tones in an image. Outside this specification, the term "gamma" is often used as the exponent of a power function that is the transfer function of any stage(s) of an imaging pipeline: $output = input ^ \gamma$ where both input and output are scaled to the range 0 to 1. Within this specification, gamma refers specifically to the function from display output to image samples.
6. **GPS** Global Positioning System Also refers to Global Positioning Satellite. A system using satellites, receivers and software to allow users to determine their exact geographic position.
7. **Pixel** An abbreviation of the term 'picture element.' A pixel is the smallest picture element of a digital image. Like the fibers of a fabric, individual pixels are too small to notice, but together they make up the whole.
8. **Resolution** The number of pixels (in both height and width) making up an image. The more pixels in an image, the higher the resolution, and the higher the resolution

of an image, the greater its clarity and definition (and the larger the file size).

9. **Topographic** The physical features of a surface area including relative elevations and the position of natural and man-made (anthropogenic) features.

5. Reference

Last but not least, we wish to keep in touch with our users as always, and we have some announcements and disclaimers to make in this last chapter.

5.1 Contact Us

Motherplanet, Inc., founded in October 2002, focuses on providing high-resolution interactive 3D digital world map solutions for educational purpose. By its unique huge image organization technology, Motherplanet combines aerial and satellite imagery, shaded relief topographic imagery and user-definable map information together to give you a total 3D view of our beautiful mother planet earth at user's interpretation. We are always working to improve our products and your suggestion and comments will be our great source of stepping forward. So feel free to contact us with the following information provided.

For more information about us please visit our website at <http://www.motherplanet.com> .

Contact Us

Technical Support: support@motherplanet.com Sales: sales@motherplanet.com

5.2 Trademarks & Disclaimers

Important announcements on Trademarks and Disclaimers

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