

API Documentation

*For users of Escouts Route Hiker
Version 1.1*

<http://www.routehiker.org.uk/api>

13th May 2006

Escouts Route Hiker (ERH), at its sole discretion, may change the terms, conditions and operation of its application programming interface at any time. Access to and use of the API is by registration only. By using the API and documentation, you agree to the terms of this license (following).

ERH hereby grants you a non-transferable, royalty-free license, exercisable solely during the term of this license, to use the API solely for the purpose of accessing and using the services provided by ERH and, unless otherwise specified in writing, solely for your personal, non-commercial use.

Except for the rights expressly granted above, this license does not transfer from ERH to you any ERH® technology, and all rights, titles and interests in and to any ERH technology and the API shall remain solely with ERH.

You shall not prepare any derivatives of the API. It is understood that a derivative or "branch" of the API would be a new version of the API, with changed or additional functions (an application you build which includes unmodified API commands is not a derivative or branch of the API). We will consider suggestions, ideas and bugs and alter the API accordingly.

You shall not create, apply for, or otherwise procure any patent or copyright interest in the API. You agree that if you breach the provisions of this section, that any IP Interests created thereby shall be logged and ERH may be forced to take action. You shall not copy or use the API except as specified in this license or as otherwise specified by ERH in writing.

You shall not use the API to communicate with or to control a system other than system(s) designated by ERH and you may not access or use ERH's services using any access mechanism other than the API.

We will not accept responsibility for any loss or damage of data. Use at your own risk.

Usage

To use the API, it needs to be called upon using any server side scripting language using a require or include function that supports retrieving files from remote locations. However, most web servers are configured not to accept remote connections for security reasons. In PHP, we recommend using the fopen() and fread() functions.

In PHP:

```
<?php
$rhquery="param1=param1&param2=param2&param3=param3"; //Build your query here
$handle = fopen("http://www.routehiker.org.uk/api/?".$rhquery, "r");
$content = "";
while (!feof($handle)) {
    $content .= fread($handle, 8192);
}
fclose($handle);
echo $content;
?>
```

However, if your host does not allow remote connections to other servers using PHP, you will need to use Snoopy. Download the following file, and put the php file within it onto your webserver:

<http://routehiker.escouts.net/api/snoopy.zip> or <http://routehiker.escouts.net/api/snoopy.rar>

In PHP:

```
<?php
include "Snoopy.class.php"; //Put at the top of the page

//All of the following code will need to be used each time you wish to execute an API call
$rhquery="param1=param1&param2=param2&param3=param3"; //Build your query here
$rhSnoopy = new Snoopy;
$rhSnoopy->fetch("http://www.routehiker.org.uk/api/?".$rhquery);
print $rhSnoopy->results;
?>
```

Passwords can be sent in encrypted md5 format, or sent unencrypted. The preference is yours.

To send an encrypted password using PHP:

```
$password = md5("yourpasswordhere");
$rhquery="param1=param1&param2=param2&password=$password"; //Build your query here
```

animap

Description

Returns script/code to generate an animated Google map © of a particular day of a user's hike.

Constraints

The query must meet the following requirements:

- The username and password must be valid.
- The end user's browser must support JavaScript.
- Requires two queries. One in <head></head> tag, one in <body></body> tag.

Input parameters

Build the query string using this syntax:

```
$rhquery="animap&username=username&password=password&area=paramname&paramname=paramvalue&nextparamname=nextparamvalue";
```

Head script (area=head)

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
hikeid	Required	Selects the hike by ID. Must already be created on ERH's website.
dayid	Required	Select the day of the hike. Must already be created on ERH's website.
area	Required	Defines which part of the script to return: head or body.
googlekey	Required	The Google API Key for your website. Must be valid.
pausetime	Optional	Sets the time in milliseconds for pausing on each leg of the hike. Default is 2000.

Body script (area=body)

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
hikeid	Required	Selects the hike by ID. Must already be created on ERH's website. Must be an integer. (hikeid=212)
dayid	Required	Select the day of the hike. Must already be created on ERH's website. Must be an integer. (dayid=1)
area	Required	Defines which part of the script to return: head or body. (format=html or format=xhtml).
format	Optional	Returns either HTML 4.01 Strict code, or XHTML 1.0 code. (format=html or format=xhtml)
copyrightclass	Optional	Allows user to set a custom class for the copyright statement. (copyrightclass=mycustomclassname)
align	Optional	Allows user to align all textual elements. Default is center. Overwritten when parameter copyrightclass is used. (align=left)

Notes

- Requires the tag <body> to equal <body onload="timer()">
- When area=head, the response format is JavaScript.
- When area=body, the response format is HTML. To receive the response in HTML 4.01 Strict or XHTML 1.0, send format=html or format=xhtml in your request.

Example

The following query creates the script for the map, and sends the response in Javascript format. This should be called upon from within the <head></head> tags:

```
$rhquery="animap&username=your_username&password=your_password&hikeid=210&legid=1&area=head&googlekey=your_site's_google_key&pausetime=2000";
```

In the response, Javascript:

```
<script
src="http://maps.google.com/maps?file=api&v=1&key=ABQJAAAChyrzC5kX7re47A7Wvu5HBThD0dbkWmPP9qsB6QUfp7
j41HRRBSReEB70Uynr0Cws9P0tL58RrrUUw" type="text/javascript"></script>
<script language="JavaScript" type="text/javascript">
<!--
//Data provided by the ESCOUTS ROUTE HIKER API - http://routehiker.escouts.net
//The animated google map script is copyrighted property of Escouts Route Hiker (c) 2006.
//Permission to be used must be granted before script is used or modified.
```

```
var points=new Array();
var texts=new Array();
var cur_marker=0;
var marker_interval;
var map;
    points[0]=new GPoin...
```

The following query creates the map, and sends the response in XHTML format. This should be called upon from within the <body></body> tags:

```
$rhquery="animap&username=yourusername&password=yourpassword&hikeid=210&dayid=1&area=body&format=xhtml&copyrightclass=copyright";
```

In the response, XHTML 1.0 and CSS:

```
<div id="map" style="width:500px; height:400px; margin-left:auto; margin-right:auto;"></div>
<p class="copyrightclass">Generated by <a href="http://routehiker.escouts.net">Escouts Route Hiker</a></p>
```

staticmap

Description

Returns script/code to generate an static Google map © of a particular day of a user's hike.

Constraints

The query must meet the following requirements:

- The username and password must be valid.
- The end user's browser must support JavaScript.
- Requires two queries. One in <head></head> tag, one in <body></body> tag.

Input parameters

Build the query string using this syntax:

```
$erhquery="staticmap&username=username&password=password&area=paramname&paramname=paramvalue&nextparamname=nextparamvalue";
```

Head script (area=head)

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
hikeid	Required	Selects the hike by ID. Must already be created on ERH's website.
dayid	Required	Select the day of the hike. Must already be created on ERH's website.
area	Required	Defines which part of the script to return: head or body.
googlekey	Required	The Google API Key for your website. Must be valid.
pausetime	Optional	Sets the time in milliseconds for creating each leg of the hike. Default is 200.

Body script (area=body)

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
hikeid	Required	Selects the hike by ID. Must already be created on ERH's website. Must be an integer. (hikeid=212)
dayid	Required	Select the day of the hike. Must already be created on ERH's website. Must be an integer. (dayid=1)
area	Required	Defines which part of the script to return: head or body. (format=html or format=xhtml).
format	Optional	Returns either HTML 4.01 Strict code, or XHTML 1.0 code. (format=html or format=xhtml)
copyrightclass	Optional	Allows user to set a custom class for the copyright statement. (copyrightclass=mycustomclassname)
align	Optional	Allows user to align all textual elements. Default is center. Overwritten when parameter copyrightclass is used. (align=left)

Notes

- Requires the tag <body> to equal <body onload="timer()">
- When area=head, the response format is JavaScript.
- When area=body, the response format is HTML. To receive the response in HTML 4.01 Strict or XHTML 1.1 Strict, send format=html or format=xhtml in your request.

Example

The following query creates the script for the map, and sends the response in Javascript format. This should be called upon from within the <head></head> tags:

```
$rhquery="staticmap&username=your_username&password=your_password&hikeid=210&dayid=1&area=head&googlekey=your_site's_google_key&pausetime=200";
```

In the response, Javascript:

```
<script
src="http://maps.google.com/maps?file=api&v=1&key=ABQJAAAChyrzC5kX7re47A7Wvu5HBThD0dbkWmPP9qsB6QUfp7
j41HRRBSReEB70Uynr0Cws9P0tL58RrrUUw" type="text/javascript"></script>
<script language="JavaScript" type="text/javascript">
<!--
//Data provided by the ESCOUTS ROUTE HIKER API - http://routehiker.escouts.net
//The static google map script is copyrighted property of Escouts Route Hiker (c) 2005.
//Permission to be used must be granted before script is used or modified.
```

```
var points=new Array();
var texts=new Array();
var cur_marker=0;
var marker_interval;
var map;
    points[0]=new GPoin...
```

The following query creates the map, and sends the response in XHTML format. This should be called upon from within the <body></body> tags:

```
$rhquery="staticmap&username=yourusername&password=yourpassword&hikeid=210&legid=1&area=body&format=xhtml&copyrightclass=copyright";
```

In the response, XHTML 1.0 and CSS:

```
<div id="map" style="width:500px; height:400px; margin-left:auto; margin-right:auto;"></div>
<p class="copyrightclass">Generated by <a href="http://routehiker.escouts.net">Escouts Route Hiker</a></p>
```

rouotecard

Description

Returns a table which contains a calculated routecard of a particular day of a user's hike.

Constraints

The query must meet the following requirements:

- The username and password must be valid.
- User must have knowledge of CSS to be able to style the table using classes.

Input parameters

Build the query string using this syntax:

```
$erhquery="rouotecard&username=username&password=password&area=paramname&paramname=paramvalue&nextparamname=nextparamvalue";
```

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
hikeid	Required	Selects the hike by ID. Must already be created on ERH's website.
dayid	Required	Select the day of the hike. Must already be created on ERH's website.
col_border	Optional	Defines the colour of the border of the routecard and the ads. If this is not sent, the routecard will not have a border, and the border of the ads will take a default colour. Must be sent in the format of six hexadecimal digits e.g. 0066CC.
col_bg	Optional	Defines the colour of the background of the routecard and the ads. If this is not sent, the routecard will not have a coloured background, and the background of the ads will take a default colour. Must be sent in the format of six hexadecimal digits e.g. 0066CC.
col_text	Optional	Defines the colour of the text of the routecard and the ads. If this is not sent, the routecard will not colour the text, and the text in the ads will take a default colour. Must be sent in the format of six hexadecimal digits e.g. 0066CC.
col_link	Optional	Defines the colour of the links in the ads. If this is not sent, the links in the ads will take a default colour. Must be sent in the format of six hexadecimal digits e.g. 0066CC.
col_url	Optional	Defines the colour of the URLs in the ads. If this is not sent, the URLs in the ads will take a default colour. Must be sent in the format of six hexadecimal digits e.g. 0066CC.

overallaffstats

Description

Returns the total number of affiliate link hits for a domain.

Constraints

The query must meet the following requirements:

- The username and password must be valid.

Input parameters

Build the query string using this syntax:

`$erhquery="overallaffstats&username=username&password=password&domain=paramvalue&format=paramvalue";`

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
domain	Required	Selects the affiliate stats by domain. Must be in the format as was entered by the user who created the affiliate link (probably in the format <code>http://www.yourdomain.com</code>)
format	Required	Returns either the value in text format, or XML format. (format=txt or format=xml)

Notes

- The response is in text or xml format.
- Specifying an invalid domain will return the stats as 0.

Example

The following query returns the total affiliate links for domain, and sends the response in xml format.

`$erhquery="overallaffstats&username=your_username&password=your_password&domain=http://www.escouts.org.uk&format=xml";`

In the response, XML:

```
<?xml version="1.0" standalone="yes"?>
<affstats>
  <total id="http://www.escouts.org.uk">194</total>
</affstats>
```

affstats

Description

Returns the total number of affiliate link hits for each month for a domain.

Constraints

The query must meet the following requirements:

- The username and password must be valid.
- You must have registered the domain as an affiliate link.

Input parameters

Build the query string using this syntax:

`$erhquery="affstats&username=username&password=password&domain=paramvalue&format=paramvalue";`

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
domain	Required	Selects the affiliate stats by domain. Must be in the format as was entered when you created the affiliate link (probably in the format <code>http://www.yourdomain.com</code>)
format	Required	Returns either the value in text format, or XML format. (<code>format=txt</code> or <code>format=xml</code>)

Notes

- The response is in text or xml format.

Example

The following query returns the total affiliate links for each month for a domain, and sends the response in xml format.

`$erhquery="affstats&username=your_username&password=your_password&domain=http://www.escouts.org.uk&format=xml";`

In the response, XML:

```
<?xml version="1.0" standalone="yes"?>
<affstats>
  <total id="http://www.escouts.org.uk">
    <month id="200603">47</month>
    <month id="200604">321</month>
    <month id="200605">95</month>
  </total>
</affstats>
```

routehikerstats

Description

Returns the statistics for Route Hiker as seen on www.routehiker.org.uk/statistics.php.

Constraints

The query must meet the following requirements:

- The username and password must be valid.

Input parameters

Build the query string using this syntax:

`$erhquery="routehikerstats&username=username&password=password&domain=paramvalue&format=paramvalue";`

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
format	Required	Returns either the value in text format, or XML format. (format=txt or format=xml)

Notes

- The response is in text or xml format.

Example

The following query requests the statistics for Route Hiker, and sends the response in xml format.

`$erhquery="affstats&username=your_username&password=your_password&format=xml";`

In the response, XML:

```
<?xml version="1.0" standalone="yes"?>
<affstats>
  <newestmember>james</newestmember>
  <users>182</users>
  <totalhikes>55</totalhikes>
  <totallegs>74</totallegs>
  <hikedata_km>367.52</hikedata_km>
  <hikedata_distancearoundearth_percent>0.917</hikedata_distancearoundearth_percent>
  <averagelegdistance_km>4.97</averagelegdistance_km>
  <averagewalkingspeed_kmph>3.32</averagewalkingspeed_kmph>
  <averageascenttime_minutespercontour>2.62</averageascenttime_minutespercontour>
</affstats>
```

gridtolonglat

Description

Converts a six figure UK based grid reference to its longitude and latitude values

Constraints

The query must meet the following requirements:

- The username and password must be valid.
- The grid reference must be valid.

Input parameters

Build the query string using this syntax:

`$erhquery="gridtolonglat&username=username&password=password&grid=paramvalue&format=paramvalue";`

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
grid	Required	The grid reference to be converted. Must be a valid UK grid reference E.g. SK414192
format	Required	Returns either the value in text format, or XML format. (format=txt or format=xml)

Notes

- The response is in text or xml format.

Example

The following query requests the longitude and latitude values for SK414191, and sends the response in xml format.

`$erhquery="gridtolonglat&username=your_username&password=your_password&grid=SK414191&format=xml";`

In the response, XML:

```
<?xml version="1.0" standalone="yes"?>
<conversion>
  <grid>SK414191</grid>
  <lat>52.7675725772</lat>
  <lng>-1.3863336643</lng>
</conversion>
```

estimatedhikevalues

Description

Estimates the hike walking speed and ascent time based on the age group you specify.

Constraints

The query must meet the following requirements:

- The username and password must be valid.
- The age group must be valid, and presented as an integer.

Input parameters

Build the query string using this syntax:

`$erhquery="estimatedhikevalues&username=username&password=password&agegroup=paramvalue&format=paramvalue";`

Param name	Obligation	Definition
username	Required	Your username.
password	Required	Your password in MD5 format or unencrypted.
agegroup	Required	The ID of the age group you wish to estimate values for.
format	Required	Returns either the value in text format, or XML format. (format=txt or format=xml)

Notes

- The response is in text or xml format.
- Possible values for agegroup:

- 1-4 = 0
- 5-7 = 1
- 8-12 = 2
- 13-16 = 3
- 17-19 = 4
- 20-25 = 5
- 26-35 = 6
- 36-45 = 7
- 46-55 = 8
- 56-64 = 9
- 65+ = 10
- Mixed Age = 11

Example

The following query requests the estimated hike values for age group 3 (13-16), and sends the response in xml format.

`$erhquery="estimatedhikevalues&username=your_username&password=your_password&agegroup=3&format=xml";`

In the response, XML:

```
<?xml version="1.0" standalone="yes"?>
<estimatedvalues>
  <averagewalkingspeed>3.12</averagewalkingspeed>
  <averageascenttime>1.18</averageascenttime>
</estimatedvalues>
```