

## Integration with external sites:

The GPS-Speedsurfing, Kitesurfing and IceSailing sites welcomes integration with external sites. The system described below allows any site to prefill data on the post session page. In the example used below we describe the integration for gps-speedsurfing, when used for the other sites just replace gps-speedsurfing with the correct site name. For example, if another site calculates speeds, then the idea is that the user can click a button on that site, and they will be taken to the "post session" page on the GPS-Speedsurfing/Kitesurfing/IceSailing website, with the relevant fields prefilled.

To get your data onto our site, the following method is required:

Create a XML document as described below and post the XML document to: <http://www.gps-speedsurfing.com/autoupload.aspx> after posting you have to redirect the user to <http://www.gps-speedsurfing.com/mygps.aspx?mnu=myuploads>. For debugging, the following URL may be used: "http://www.gps-speedsurfing.com/autoupload-debug.aspx". The document starts and ends with `<speedResults>`, `</speedResults>`

The following POST fields should be set always beginning with

### Common data fields

Field	Optional	format	datatype	example
				<software>
name			string	<name> <b>GPSResults</b> </name>
version			string	<version> <b>6.63</b> </version>
				</software>
Userlogin			string	<userLogin>Dylan de Jong</userLogin>
userPass			string	<userPass>password</userPass>
date		YYY-MM-DD	datetime	<date> <b>2009-10-02T16:57:24Z</b> </date>
location	0	lat long	geo	<location latitude=" <b>-37.65158415</b> " longitude=" <b>176.12359643</b> " />
WindDirection	0	in degrees	decimal	<windDirection> <b>270.0</b> </windDirection>
TotalLength	0	in meters	decimal	<totalLength> <b>42275.988</b> </totalLength>
averageSpeed	0	in km	decimal	<averageSpeed> <b>21.401</b> </averageSpeed>
duration	0	in seconds	decimal	<duration> <b>3840.0</b> </duration>
username	0	gps user	string	<username> <b>unknown</b> </username>
device	0		string	<device> <b>ForeTrexID314</b> </device>
numberOfGPS	0		numeric	<numberOfGps> <b>1</b> </numberOfGps>
incITracks	0		numeric	<incITracks> <b>1</b> </incITracks>
firmware	0		string	<firmware> <b>2.20</b> </firmware>
serialno	0		string	<serialno> <b>unknown</b> </serialno>
machineno	0		string	<machineno> <b>09A30F59F31366F3</b> </machineno>
best5average		in km	decimal	<best5Average> <b>28.452</b> </best5Average>

The items below should repeat for every speed item posted.

## Speed data fields

Field	Optional	format	datatype	example
				<a href="#">&lt;resultItem type="x1" value="x2" mode="linear"&gt;</a>
rank			numeric	<a href="#">&lt;rank&gt;1&lt;/rank&gt;</a>
speed		in km	decimal	<a href="#">&lt;speed&gt;28.415&lt;/speed&gt;</a>
length	O	in meters	decimal	<a href="#">&lt;length&gt;116.944&lt;/length&gt;</a>
time	O	in seconds	decimal	<a href="#">&lt;time&gt;8.000&lt;/time&gt;</a>
date	O	YYY-MM-DD	datetime	<a href="#">&lt;date&gt;2009-10-02T17:02:52Z&lt;/date&gt;</a>
				<a href="#">- &lt;initialPos&gt;</a>
position	O	lat lon	geo	<a href="#">- &lt;position lat="46.26114530" lon="-123.93680850"&gt;</a>
ele	O	in meters	decimal	<a href="#">&lt;ele&gt;-19.2&lt;/ele&gt;</a>
				<a href="#">&lt;/position&gt;</a>
				<a href="#">&lt;/initialPos&gt;</a>
				<a href="#">- &lt;finalPos&gt;</a>
position	O	lat lon	geo	<a href="#">- &lt;position lat="46.26067420" lon="-123.93566650"&gt;</a>
ele	O	in meters	decimal	<a href="#">&lt;ele&gt;-20.1&lt;/ele&gt;</a>
				<a href="#">&lt;/position&gt;</a>
				<a href="#">&lt;/finalPos&gt;</a>
				<a href="#">&lt;/resultItem&gt;</a>

X1			string	<b>distance, time, alpha</b>
X2 (X1=distance)			decimal	<b>100.0, 250.0, 500.0, 1852.0,</b>
X2 (X1=time)			decimal	<b>2.0, 10.0, 20.0, 60.0, 3600.0</b>
X2 (X1=alpha)			decimal	<b>250.0, 500.0, 1000.0</b>
rank			numeric	<b>1 to 5</b>
speed		in km	decimal	
length		in meters	decimal	
time		in seconds	time	
date		YYY-MM-DD	datetime	
position		lat lon	geo	
ele		in meters	decimal	



## Example upload file:

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes" ?>
- <speedResults version="2.0" creator="GPSResults V6.63 - http://www.gps-
  speed.com" integration="cubicspline" computation="doppler">
- <software>
  <name>GPSResults</name>
  <version>6.63</version>
  </software>
  <userLogin>Dylan de Jong</userLogin>
  <userPass>password</userPass>
  <date>2009-10-30T22:13:47Z</date>
  <location latitude="46.26099050" longitude="-123.93583840" />
  <windDirection>270.0</windDirection>
  <totalLength>3590.150</totalLength>
  <averageSpeed>12.924</averageSpeed>
  <duration>540.0</duration>
  <username>JEDI</username>
  <device>unknown</device>
  <numberOfGps>1</numberOfGps>
  <inclTracks>1</inclTracks>
  <firmware>V1.62(B1115)</firmware>
  <serialNo>1001561</serialNo>
  <machineno>B5C15A8D35FF0874</machineno>
  <best5Average>28.452</best5Average>
  - <resultItem type="distance" value="100.0" mode="linear" integration="rectangle">
    <rank>1</rank>
    <speed>32.942</speed>
    <length>101.680</length>
    <time>6.000</time>
    <date>2009-10-30T22:45:21Z</date>
  - <initialPos>
  - <position lat="46.26069170" lon="-123.93630230">
    <ele>-21.7</ele>
    </position>
    </initialPos>
  - <finalPos>
  - <position lat="46.26133020" lon="-123.93726620">
    <ele>-21.7</ele>
    </position>
    </finalPos>
    </resultItem>
  - <resultItem type="distance" value="100.0" mode="linear" integration="rectangle">
    <rank>2</rank>
    <speed>32.096</speed>
    <length>115.580</length>
    <time>7.000</time>
    <date>2009-10-30T22:54:03Z</date>
  - <initialPos>
  - <position lat="46.26081130" lon="-123.93631300">
```

```
<ele>-22.3</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26157790" lon="-123.93736480">
  <ele>-23.9</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="100.0" mode="linear" integration="rectangle">
  <rank>3</rank>
  <speed>30.273</speed>
  <length>109.000</length>
  <time>6.999</time>
  <date>2009-10-30T22:37:56Z</date>
- <initialPos>
- <position lat="46.26050170" lon="-123.93547760">
  <ele>-20.6</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26100220" lon="-123.93671240">
  <ele>-20.3</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="100.0" mode="linear" integration="rectangle">
  <rank>4</rank>
  <speed>22.458</speed>
  <length>103.970</length>
  <time>8.999</time>
  <date>2009-10-30T22:28:53Z</date>
- <initialPos>
- <position lat="46.26076320" lon="-123.93616240">
  <ele>-21.5</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26116850" lon="-123.93740620">
  <ele>-22.2</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="100.0" mode="linear" integration="rectangle">
  <rank>5</rank>
  <speed>21.896</speed>
  <length>101.380</length>
  <time>9.000</time>
  <date>2009-10-30T22:34:48Z</date>
- <initialPos>
- <position lat="46.26114530" lon="-123.93680850">
  <ele>-19.2</ele>
  </position>
```

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    </initialPos>
- <finalPos>
- <position lat="46.26067420" lon="-123.93566650">
  <ele>-20.1</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="250.0" mode="linear" integration="rectangle">
  <rank>1</rank>
  <speed>31.304</speed>
  <length>257.670</length>
  <time>16.000</time>
  <date>2009-10-30T22:45:24Z</date>
- <initialPos>
- <position lat="46.26020790" lon="-123.93506600">
  <ele>-22.0</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26164410" lon="-123.93770220">
  <ele>-21.8</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="250.0" mode="linear" integration="rectangle">
  <rank>2</rank>
  <speed>29.640</speed>
  <length>259.200</length>
  <time>16.999</time>
  <date>2009-10-30T22:54:10Z</date>
- <initialPos>
- <position lat="46.26060970" lon="-123.93583790">
  <ele>-22.0</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26227520" lon="-123.93822090">
  <ele>-23.2</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="250.0" mode="linear" integration="rectangle">
  <rank>3</rank>
  <speed>29.585</speed>
  <length>258.720</length>
  <time>16.999</time>
  <date>2009-10-30T22:38:02Z</date>
- <initialPos>
- <position lat="46.26030890" lon="-123.93477370">
  <ele>-20.6</ele>
  </position>
  </initialPos>
- <finalPos>
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- <position lat="46.26160410" lon="-123.93753520">
  <ele>-20.4</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="250.0" mode="linear" integration="rectangle">
  <rank>4</rank>
  <speed>20.737</speed>
  <length>256.020</length>
  <time>23.999</time>
  <date>2009-10-30T22:29:02Z</date>
- <initialPos>
- <position lat="46.26059880" lon="-123.93538720">
  <ele>-22.0</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26174650" lon="-123.93825740">
  <ele>-22.7</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="250.0" mode="linear" integration="rectangle">
  <rank>5</rank>
  <speed>20.416</speed>
  <length>252.060</length>
  <time>23.999</time>
  <date>2009-10-30T22:35:01Z</date>
- <initialPos>
- <position lat="46.26123040" lon="-123.93704830">
  <ele>-18.5</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26009200" lon="-123.93422390">
  <ele>-18.9</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="500.0" mode="linear" integration="rectangle">
  <rank>1</rank>
  <speed>19.845</speed>
  <length>500.220</length>
  <time>48.998</time>
  <date>2009-10-30T22:38:10Z</date>
- <initialPos>
- <position lat="46.25960320" lon="-123.93256320">
  <ele>-20.9</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26205150" lon="-123.93743800">
  <ele>-21.8</ele>
```



```
    </position>
    </finalPos>
  </resultItem>
- <resultItem type="distance" value="500.0" mode="linear" integration="rectangle">
  <rank>2</rank>
  <speed>15.997</speed>
  <length>501.980</length>
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  <date>2009-10-30T22:35:20Z</date>
- <initialPos>
- <position lat="46.26174970" lon="-123.93841440">
  <ele>-18.7</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.25957540" lon="-123.93274730">
  <ele>-19.1</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="500.0" mode="linear" integration="rectangle">
  <rank>3</rank>
  <speed>13.225</speed>
  <length>503.430</length>
  <time>73.996</time>
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- <initialPos>
- <position lat="46.26153980" lon="-123.93823340">
  <ele>-21.5</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.25963580" lon="-123.93234110">
  <ele>-23.0</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="distance" value="500.0" mode="linear" integration="rectangle">
  <rank>4</rank>
  <speed>3.981</speed>
  <length>501.770</length>
  <time>244.987</time>
  <date>2009-10-30T22:48:56Z</date>
- <initialPos>
- <position lat="46.25973370" lon="-123.93288940">
  <ele>-23.4</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26120270" lon="-123.93706670">
  <ele>-20.0</ele>
  </position>
  </finalPos>
```

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    </resultItem>
- <resultItem type="distance" value="1852.0" mode="linear" integration="rectangle">
  <rank>1</rank>
  <speed>5.689</speed>
  <length>1864.040</length>
  <time>636.965</time>
  <date>2009-10-30T22:45:25Z</date>
- <initialPos>
- <position lat="46.26067420" lon="-123.93566650">
  <ele>-20.1</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26175330" lon="-123.93780480">
  <ele>-21.8</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="time" value="2.0" mode="linear" integration="rectangle">
  <rank>1</rank>
  <speed>33.512</speed>
  <length>34.480</length>
  <time>2.000</time>
  <date>2009-10-30T22:45:19Z</date>
- <initialPos>
- <position lat="46.26088650" lon="-123.93663900">
  <ele>-21.7</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26110880" lon="-123.93695690">
  <ele>-21.7</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="time" value="2.0" mode="linear" integration="rectangle">
  <rank>2</rank>
  <speed>32.598</speed>
  <length>33.540</length>
  <time>2.000</time>
  <date>2009-10-30T22:54:01Z</date>
- <initialPos>
- <position lat="46.26111040" lon="-123.93680130">
  <ele>-23.3</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26134510" lon="-123.93708980">
  <ele>-23.9</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="time" value="2.0" mode="linear" integration="rectangle">
```

```
<rank>3</rank>
<speed>30.606</speed>
<length>31.490</length>
<time>2.000</time>
<date>2009-10-30T22:37:52Z</date>
- <initialPos>
- <position lat="46.26056400" lon="-123.93565840">
  <ele>-20.5</ele>
  </position>
</initialPos>
- <finalPos>
- <position lat="46.26070460" lon="-123.93601800">
  <ele>-20.4</ele>
  </position>
</finalPos>
</resultItem>
- <resultItem type="time" value="2.0" mode="linear" integration="rectangle">
  <rank>4</rank>
  <speed>22.811</speed>
  <length>23.470</length>
  <time>2.000</time>
  <date>2009-10-30T22:34:45Z</date>
  - <initialPos>
  - <position lat="46.26094260" lon="-123.93630130">
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    </position>
  </initialPos>
  - <finalPos>
  - <position lat="46.26084000" lon="-123.93603370">
    <ele>-20.1</ele>
    </position>
  </finalPos>
</resultItem>
- <resultItem type="time" value="2.0" mode="linear" integration="rectangle">
  <rank>5</rank>
  <speed>22.733</speed>
  <length>23.390</length>
  <time>2.000</time>
  <date>2009-10-30T22:28:47Z</date>
  - <initialPos>
  - <position lat="46.26079810" lon="-123.93630320">
    <ele>-21.6</ele>
    </position>
  </initialPos>
  - <finalPos>
  - <position lat="46.26087480" lon="-123.93659130">
    <ele>-21.9</ele>
    </position>
  </finalPos>
</resultItem>
- <resultItem type="alpha" value="500.0" mode="linear" integration="rectangle">
  <rank>1</rank>
  <speed>5.852</speed>
```

```
<length>496.710</length>
<time>164.991</time>
<date>2009-10-30T22:45:10Z</date>
- <initialPos>
- <position lat="46.26061170" lon="-123.93498220">
  <ele>-23.5</ele>
  </position>
</initialPos>
- <finalPos>
- <position lat="46.26033040" lon="-123.93542030">
  <ele>-21.8</ele>
  </position>
</finalPos>
</resultItem>
- <resultItem type="alpha" value="500.0" mode="linear" integration="rectangle">
  <rank>2</rank>
  <speed>5.620</speed>
  <length>497.240</length>
  <time>171.991</time>
  <date>2009-10-30T22:37:48Z</date>
- <initialPos>
- <position lat="46.26028440" lon="-123.93481620">
  <ele>-19.3</ele>
  </position>
</initialPos>
- <finalPos>
- <position lat="46.26044820" lon="-123.93529700">
  <ele>-20.5</ele>
  </position>
</finalPos>
</resultItem>
- <resultItem type="alpha" value="500.0" mode="linear" integration="rectangle">
  <rank>3</rank>
  <speed>4.399</speed>
  <length>235.370</length>
  <time>103.995</time>
  <date>2009-10-30T22:42:02Z</date>
- <initialPos>
- <position lat="46.26166870" lon="-123.93717730">
  <ele>-22.4</ele>
  </position>
</initialPos>
- <finalPos>
- <position lat="46.26125040" lon="-123.93697580">
  <ele>-22.8</ele>
  </position>
</finalPos>
</resultItem>
- <resultItem type="alpha" value="500.0" mode="linear" integration="rectangle">
  <rank>4</rank>
  <speed>3.870</speed>
  <length>497.760</length>
  <time>249.986</time>
```

```
<date>2009-10-30T22:49:22Z</date>
- <initialPos>
- <position lat="46.26045710" lon="-123.93577510">
  <ele>-21.7</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26079210" lon="-123.93557320">
  <ele>-22.3</ele>
  </position>
  </finalPos>
  </resultItem>
- <resultItem type="alpha" value="500.0" mode="linear" integration="rectangle">
  <rank>5</rank>
  <speed>2.855</speed>
  <length>499.270</length>
  <time>339.982</time>
  <date>2009-10-30T22:34:33Z</date>
- <initialPos>
- <position lat="46.26116850" lon="-123.93740620">
  <ele>-22.2</ele>
  </position>
  </initialPos>
- <finalPos>
- <position lat="46.26137320" lon="-123.93747050">
  <ele>-17.9</ele>
  </position>
  </finalPos>
  </resultItem>
</speedResults>
```