User Guide of GNUUserportal

I. New Login

If you have user name and password, just enter it and click “Login”.

If you are new user click “New Login” and fill the form below:

If you forgot your password, click “Forgot Password?” and retrieve the password.
II. GNSMON service

To access GNWEB and GNSMON services you need to have user name and password issued by Landmælingar Íslands.

1. The first step would be to agree to use “Cookies”. Push “I agree” button.

2. In the upper right corner enter your user name and password.

3. Select GNSMON or GNWEB Services.

4. By select one of the Services you will get small notice in the upper right corner like in the picture below. Enable pop-ups!
5. If you select the GNSMON Service you will get GNSMON window like this:

6. Zoom in or zoom out using your mouse wheel. When you will zoom in you will get the view like in the picture:
The green triangle represents active stations and white triangle represents not active stations.

7. Click on one of the triangles to see more info about the station.
8. The Menu of GNSMON:

You have three options. One is to see only “Reference stations”, another to see only “Rovers” and the third to see both of them using Map icon.

9. The GNSMON map symbols:

<table>
<thead>
<tr>
<th>Symbol Colors in Map</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reference Stations</strong></td>
<td></td>
</tr>
<tr>
<td>Fixed</td>
<td><img src="Green.png" alt="Green" /></td>
</tr>
<tr>
<td>Unfixed</td>
<td><img src="Red.png" alt="Red" /></td>
</tr>
<tr>
<td>No Data</td>
<td><img src="White.png" alt="White" /></td>
</tr>
<tr>
<td>Without permission</td>
<td><img src="Black.png" alt="Black" /></td>
</tr>
<tr>
<td><strong>Rovers</strong></td>
<td></td>
</tr>
<tr>
<td>Fixed</td>
<td><img src="Green.png" alt="Green" /></td>
</tr>
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<td>Unfixed</td>
<td><img src="Red.png" alt="Red" /></td>
</tr>
</tbody>
</table>
III. GNWEB service

Regular RINEX:

1. If you will select GNWEB service, you will get this view.

2. Before selecting a station choose “RINEX” or “Virtual RINEX”. If you choose “RINEX”, select the station. You can select not only one station but also few or even all. Selected stations will change the color.
3. There are 6 panels in GNWEB window:

4. After you have selected needed stations, please, select panel “2 Select time period” and choose time period for the selected station.

The user can change interval of observations. The smallest interval can be 1sec. There are two time selections GPS or GPS+ few hours/GPS- few hours. Explanation: If you will select GPS time you will get data of the period 14:00 to 15:00. If you will select GPS+3:00 of period 14:00 to 18:00 you will get data that starts 11:00 to 15:00. If you will select GPS-3:00 of period 14:00 to 18:00 you will get data that starts 17:00 to 21:00. The hour 14:00 is like reference time in this example. Time and date you can change by the click of the “calendar” button.

5. Later select panel „3 Signals” and make your choices.

User can choose to have or not to have navigation files. In the observation file user can expect pseudorange C1, carrier phase L1, carrier phase L2, GLONASS, signal to noise, Doppler if available.
6. Select panel „4 Select data format and compression“

Compressed RINEX – compressed binary *.y for RINEX observation, *.v for RINEX navigation GLONASS and *.x for RINEX navigation GPS.

Compact RINEX (Hatanaka) – compact Hatanaka *.d for observation, *.n navigation GPS and *.g navigation for GLONASS.

Session files – put all data into one file.
Day files – data are separated into different files depending on the date.
Hour files – data are separated into different hour files.
*.zip – zip archive
*.tar.gz – tar archive
*.rzo – for compressed RINEX it will be *.rxy, for compact RINEX *.rxd.
*.rxn – for compressed RINEX it will be *.rxx, for compact RINEX *.rxn.
*.01o – for compressed RINEX it will be *.11y, for compact RINEX *.11d.
*.01n – for compressed RINEX it will be *.11x, for compact RINEX *.11n.
7. Select panel „5 Available Epochs“ and push „Cart“ below the page.

In this window there are information about availability of the data. Number of percentage will give sense of data availability of each hour. If the bar is empty it can mean that data is not available or the data for that hour is not completely downloaded.

8. After you will push the „Cart“, you will get the window, where you will enter your project name. At the end push button „Buy“

9. Click green tick „results are ready“. 
10. Click “Download” icon to directly download the project.

11. Click “Envelope” icon to get the project data by email.

12. Log out using this “Door” icon:

**Virtual RINEX:**

If you selected Virtual RINEX, this creates a custom Rinex file for a location specified by the user by combining observables from surrounding of reference stations of the network and adding VRS corrections. This provides an option for post-processing data while leveraging the VRS technology. This can be a good solution for rapid data collection needs, perhaps in areas without good cellular coverage. This is available for account holders. Virtual Rinex you can generate for either static rovers, for trajectories (moving rover) or for reference stations.

Virtual Rinex is generated by using state space representation files (SSR) they came from continuous reference network. Advantage of SSR or derived quantities compared to original RINEX of a reference station is the station dependent error. Due to the processing of several reference stations and the state space representation, the SSR is free or greatly reduced of any station dependent errors. The noise of the observation from SSR is lower and hence often better than original RINEX.
That to select the location click on the map or enter the coordinates at the bottom of the window and push „red triangle“ button. Coordinate system is WGS84.