



ESTPOS user manual

Creating an ESTPOS user account

To use the ESTPOS services an ESTPOS user account must be created in the ESTPOS user portal - <https://gnss-rtk.maaamet.ee/sbc/Account/Index?returnUrl=%2Fsbcsbc>. Below is the description of how to create an account.

- To create a new user account, first select "CREATE ACCOUNT" on the ESTPOS user portal homepage, after that the registration page will open.



Keel  eesti > Kas vajate kontot? **LOO KONTO**

ESTPOS - Jaamade ülevaade



Lat: 57° 49' 51.970" N Lon: 26° 27' 13.532" E

SBC sisselogimine

Kasutajanimi

Salasõna

Unustasite salasõna?

☐ Mäleta mind

SBC sisselogimine

ESTPOS

Registreeri

Isikuandmed

Kasutajanimi*

Mõjutab SBC veebijuurdepääsu autentimist

Salasõna*

(muutmata)

Mõjutab SBC veebijuurdepääsu autentimist

Ntrip kasutajanimi

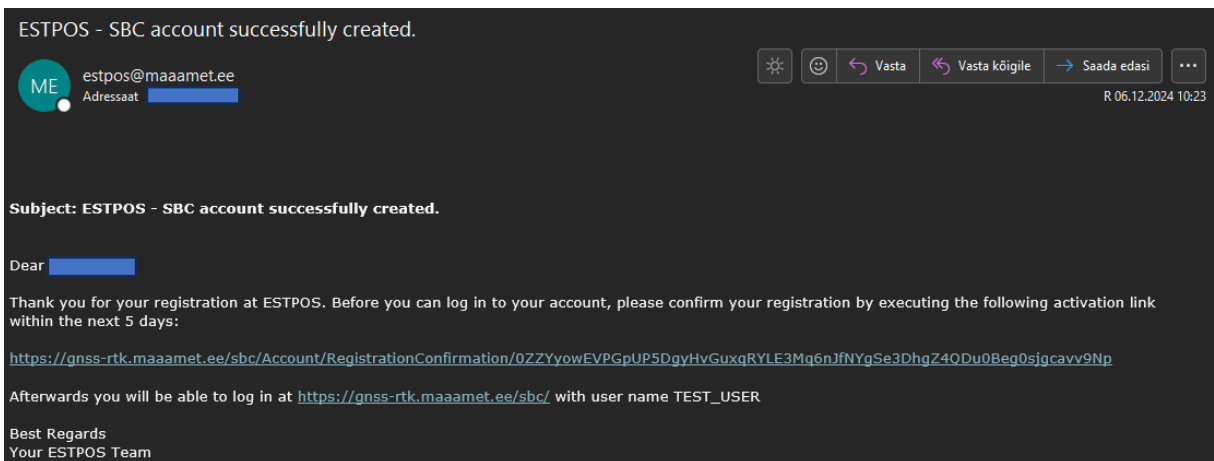
Mõjutab Ntripi reaalaja andmete autentimist. Kui väljad jäetakse tühjaks, siis kasutatakse SBC veebipääsu kasutajanime

Ntrip salasõna

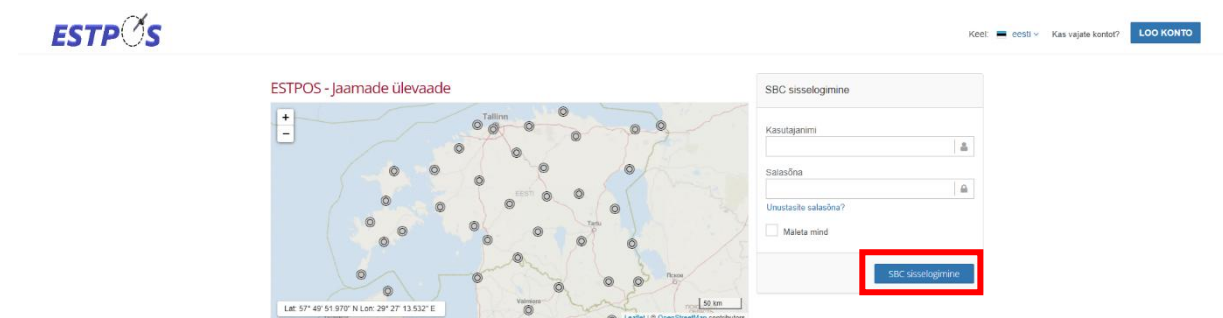
(muutmata)

Mõjutab Ntripi reaalaja andmete autentimist. Kui väljad jäetakse tühjaks, siis kasutatakse SBC veebipääsu salasõna

- The user can choose different usernames and passwords for the ESTPOS user portal (account services and settings management, RINEX data download, GNSS computation and transformation service) and for NTRIP connection. The separate NTRIP username and password can also be left blank, in which case the same username and password for the NTRIP connection as for the ESTPOS user portal is valid.
- **When choosing a username and password, we recommend using only numbers and letters of the English alphabet. Special characters and letters (@, *, #, %, ä, õ, ö, ü, etc.) can cause problems when connecting to the ESTPOS network.**
- In addition, the name of the account creator, the name of the company and the user's contact email address must also be provided during registration. All notifications sent from the ESTPOS network and information letters sent by the ESTPOS user support will be sent to the contact email specified during registration.
- Once the account is successfully created, the user needs to activate it. The ESTPOS user portal will send a letter to the contact email selected during registration, with a link to activate the account.

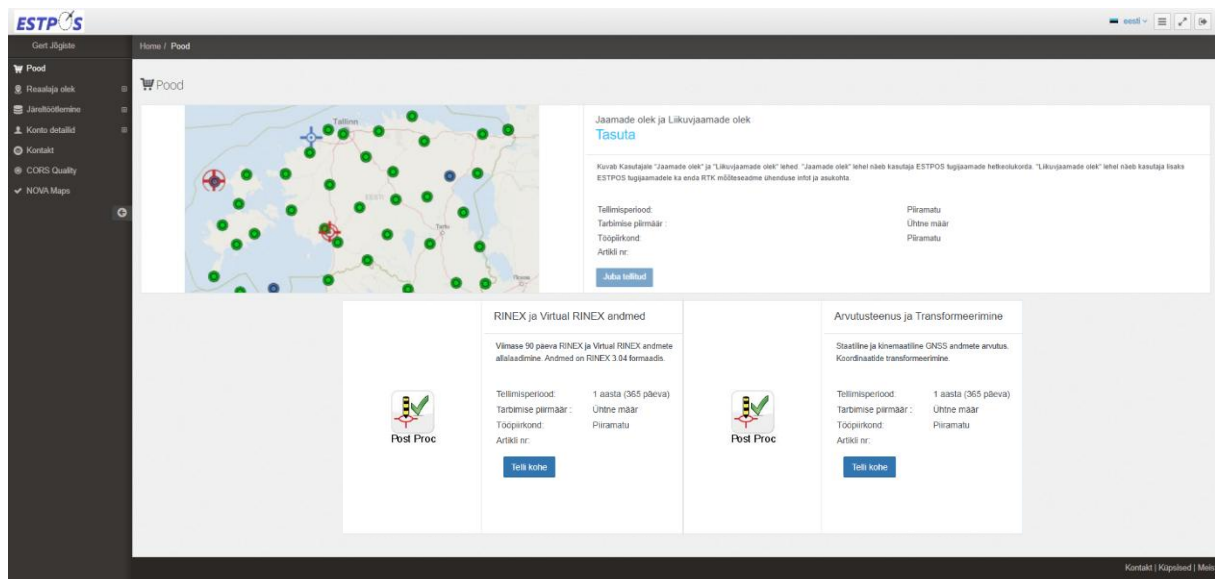


- If the account has been successfully activated, it is possible to log in to the ESTPOS user portal.



- When logging in to the ESTPOS user portal the ESTPOS services **Shop** is shown. From there, the user can choose the suitable services that he wants to use (the content of the services and a more detailed description can be seen in the chapter **ESTPOS services**):

1. RINEX ja Virtual RINEX andmed
2. Arvutusteenus ja Transformeerimine
3. Jaamade olek ja Liikuvjaamade olek



- Users must order each desired service separately. After ordering all subscriptions will remain in „pending“ state and will be activated by ESTPOS user support as soon as possible. The user will be notified of the activation of the order to the contact email address given during registration.

ESTPOS services

RINEX ja Virtual RINEX andmed:

- Allows to download the last 90 days of RINEX and Virtual RINEX data. A Virtual RINEX file is a RINEX file created from the data of ESTPOS base stations. The data is in RINEX 3.04 format. Older data is archived in the ESTPOS archive, and to use it, you need to contact the ESTPOS user support.
- More detailed information about using the service is given in the chapters **RINEX data** and **Virtual RINEX data**.

Arvutusteenus ja Transformeerimine:

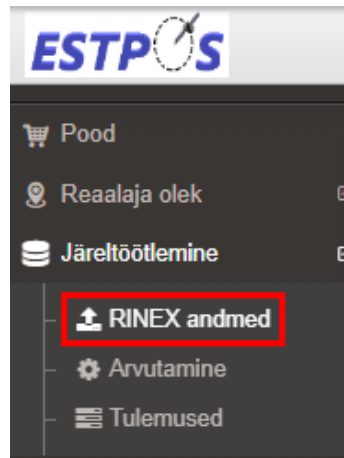
- Allows to calculate precise coordinates that are given in the selected coordinate system based on the uploaded rover data and data from the ESTPOS base stations on the **Computation** subpage of the **Post Processing** page. Computations are made with the Leica Infinity software.
- Allows to transform the geocentric coordinates of the WGS84 system into the Estonian national L-EST97 planar coordinate system on the **Transformation** subpage of the **Post Processing** page.
- More detailed information about using the service is given in the chapters **Computation** and **Transformation**.

Jaamade olek ja Liikuvjaamade olek:

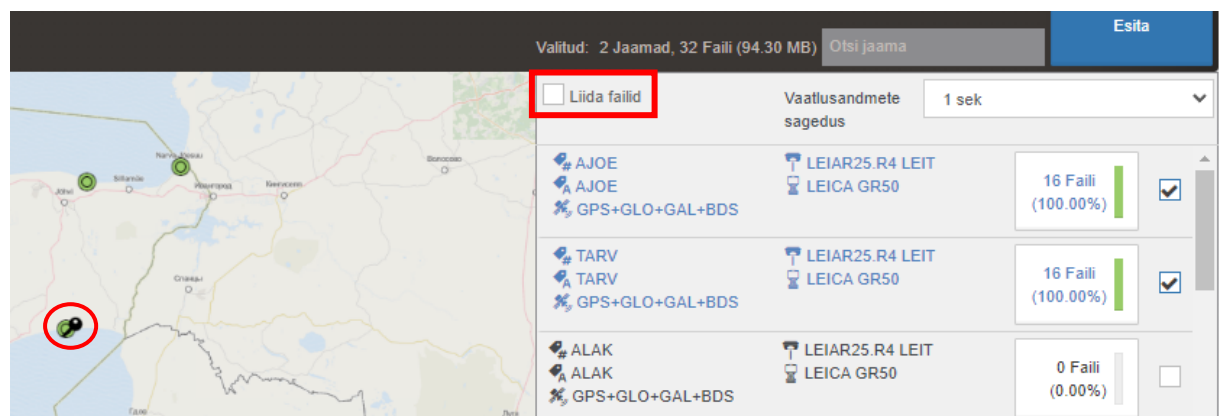
- In the left menu of the user portal, under **Live Status**, the pages **Site Status** and **Rover Status** are displayed.
- **Site Status** shows users the live status of all ESTPOS reference stations. **Rover Status** shows users the live status of all ESTPOS reference stations and the status and location of their GNSS-RTK rover.

RINEX data download

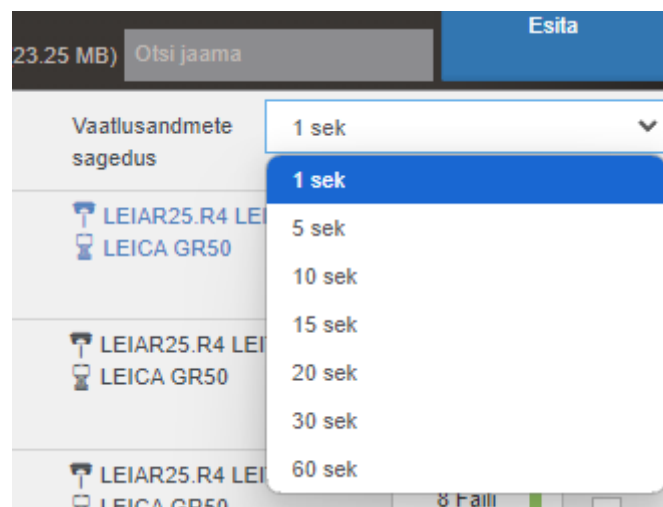
- 1) Select **Post Processing** and **RINEX Data**.



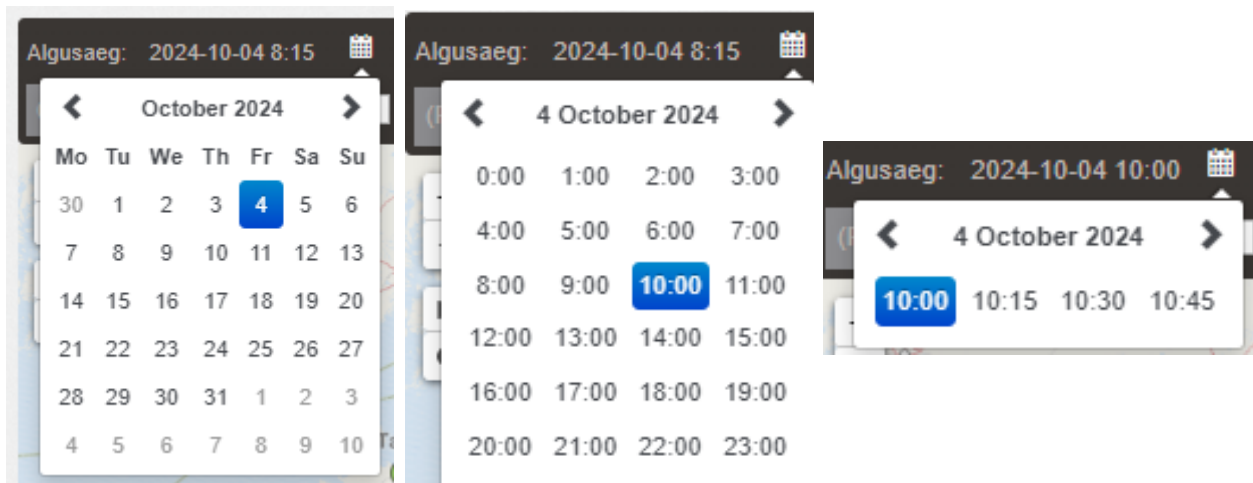
- 2) Select a GNSS station or stations (either from the map or use the search on the right to search for a station). A black key icon appears on selected stations.
- 3) By default, all RINEX files are 15 minutes long. Using the **Merge files** option, all files of one base station are merged into one RINEX file.



- 4) The rate of observation data can be selected under the station search bar.



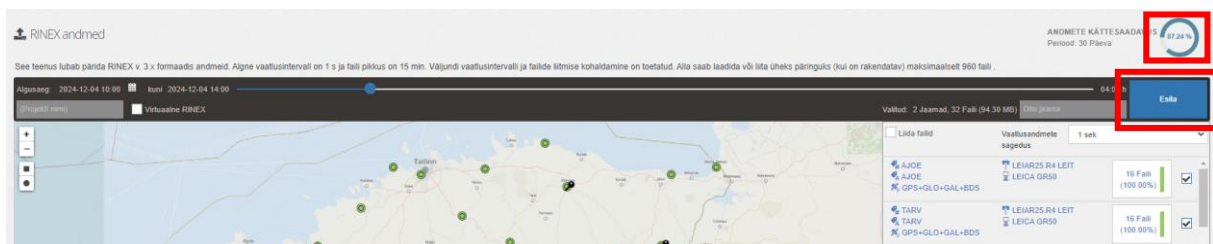
- 5) Press the calendar icon to select a date. After the date, select the time of the file start time and finally the quarter hour of the start time (00, 15, 30, 45).



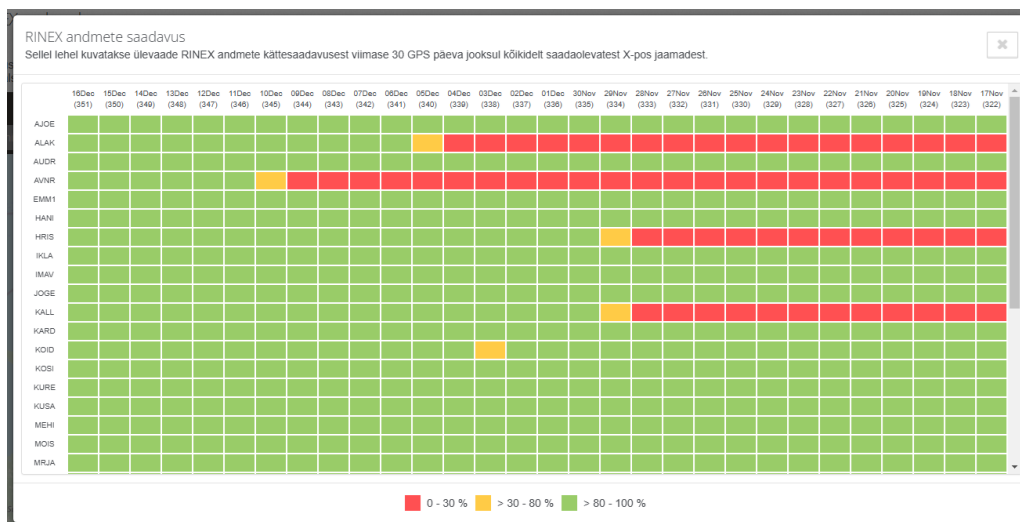
- 6) The length of the file can be changed using the blue circle in the header. The length of the file is visible in the right part of the header.



- 7) When the setup is completed press **Submit**.



- 8) Above the **Submit** button is an indicator of data availability for the last 30 days. By clicking on the indicator, you can get more detailed information about the availability of RINEX data of ESTPOS base stations for the last 30 days.



9) Press **Confirm**.

RINEX andmed

Päringu tegija TEST_USER sees 2024-12-11 10:57:57

Kinnita

Katkesta

Nõutud sisu

Ajavahemik: 2024-12-04 10:00 Jaamad: AJOE, TARV (2)	Kestvus: 04:00 h 32 Faili, 94.30 MB, Vaatlusandmete sagedus: 1 sek
#1 ajoe339i00.rnx.zip, 2.93 MB ✓ 2024-12-04 10:00 - 10:15, Epohhid: 900	AJOE (10653M001), GPS, GLONASS, Galileo, BeiDou 59° 00' 43" N, 27° 25' 26" E, 59.8m
#2 ajoe339i15.rnx.zip, 3.06 MB ✓ 2024-12-04 10:15 - 10:30, Epohhid: 900	AJOE (10653M001), GPS, GLONASS, Galileo, BeiDou 59° 00' 43" N, 27° 25' 26" E, 59.8m

10) The user is then automatically taken to the **Results** page. Press **Download All** to download the RINEX data.

Reaalaja olek

Järeltöötlamine

RINEX andmed

Arvutamine

Tulemused

Konto detailid

Kontakt

CORS Quality

NOVA Maps

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeltöötlusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

Koordinaatide arvutused

1. Taotletud 2024-12-11 11:00
Projekt: Tühi
Jaamad: AJOE, TARV (2)
Soovitatud algusaeg: 2024-12-04 10:00

Kestvus: 04:00 h, 32 Faili (0)
Vaatlusandmete sagedus: 1 sek
Andmete terviklikkus: 100%
Epohhid: 28800

Laadige kõik alla

Kõik RINEX tulemused, mis on vanemad kui 2024-09-12 eemaldatakse automaatselt.

< 1 >

11) In the pop-up window choose **Yes**.

Kas olete kindel?

Brauser alustab nüüd failide allalaadimist, palun ärge sulgege seda akent või allalaadimine peatatakse. Sõltuvalt teie brauseri sätetest võite saada iga faili jaoks salvestamise dialoogi akna. Soovitame brauseri konfigureerida nii, et kõik allalaetavad failid salvestataks vaikekohta. Kas soovite allalaadimist kohe alustada?

Jah Ei

12) Files have been successfully downloaded.

Reaalaja olek

Järeltöötlamine

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Kontakt

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NOVA Maps

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeltöötlusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

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Projekt: Tühi
Jaamad: AJOE, TARV (2)
Soovitatud algusaeg: 2024-12-04 10:00

Kestvus: 04:00 h, 32 Faili (0)
Vaatlusandmete sagedus: 1 sek
Andmete terviklikkus: 100%
Epohhid: 28800

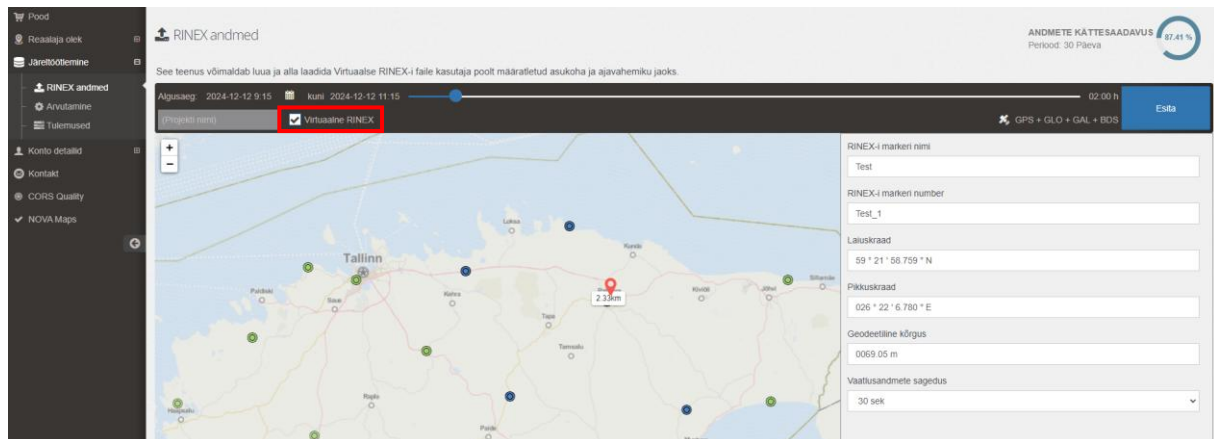
Valmis 100%

Kõik RINEX tulemused, mis on vanemad kui 2024-09-12 eemaldatakse automaatselt.

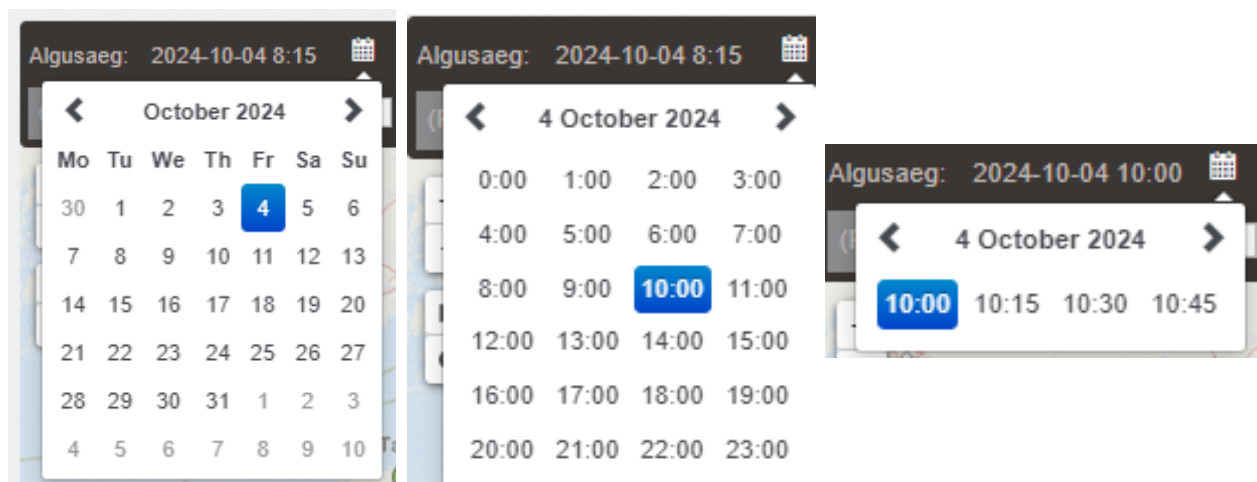
< 1 >

Virtual RINEX data download

- 1) Select **RINEX Data** under **Post Processing**. Check the **Virtual RINEX** box.



- 2) Insert the coordinates and height (ellipsoidal) of the virtual point.
- 3) Press the calendar icon to select a date. After the date, select the time of the file start time and finally the quarter hour of the start time (00, 15, 30, 45).



- 4) The length of the file can be changed using the blue circle in the header. The length of the file is visible in the right part of the header.



- 5) When the setup is completed press **Submit**.

6) Press **Confirm**.

Virtuaalse RINEX-i andmed "Test"		Kinnita	Katkesta
Päringu tegija TEST_USER sees 2024-12-12 11:47:22			
Nõutud sisu			
Laiuskraad: 59 ° 21 ' 58.759 " N		Soovitatud algusaeg: 2024-12-12 9:15	
Pikkuskraad: 026 ° 22 ' 6.780 " E		Kestvus: 02:00 h	
Geodeetiline kõrgus: 69.05 m		Vaatlusandmete sagedus: 30 sek	

7) The user is then automatically taken to the **Results** page. Press **Download All** to download the Virtual RINEX data.

Pood

Reaalaja olek

Järeltöötlamine

RINEX andmed

Arvutamine

Tulemused

Konto detailid

Kontakt

CORS Quality

NOVA Maps

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeltöötlusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

Koordinaatide arvutused

2. Taotletud 2024-12-12 11:52:53, Projekt: [Test](#)

Soovitatud algusaeg: 2024-12-12 09:15:00

Kestvus: 02:00 h

Laiuskraad: 59° 21' 58.759" N

Pikkuskraad: 26° 22' 06.780" E

Kõrgus: 69.05 m

Markeri nimi ja number: Test, Test_1

Jaamad: **TARV**, VERG, KUSA, RALL, AV... (5)

Vaatlusandmete sagedus: 30 sek, Faili suurus: 875 kb

Satelliidisüsteemid: GPS, GLONASS, Galileo, BeiDou

Andmete terviklikkus: 100%

Epohhid: 240

Lae alla

8) Files have been successfully downloaded.

Pood

Reaalaja olek

Järeltöötlamine

RINEX andmed

Arvutamine

Tulemused

Konto detailid

Kontakt

CORS Quality

NOVA Maps

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeltöötlusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

Koordinaatide arvutused

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Soovitatud algusaeg: 2024-12-12 09:15:00

Kestvus: 02:00 h

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Kõrgus: 69.05 m

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Vaatlusandmete sagedus: 30 sek, Faili suurus: 875 kb

Satelliidisüsteemid: GPS, GLONASS, Galileo, BeiDou

Andmete terviklikkus: 100%

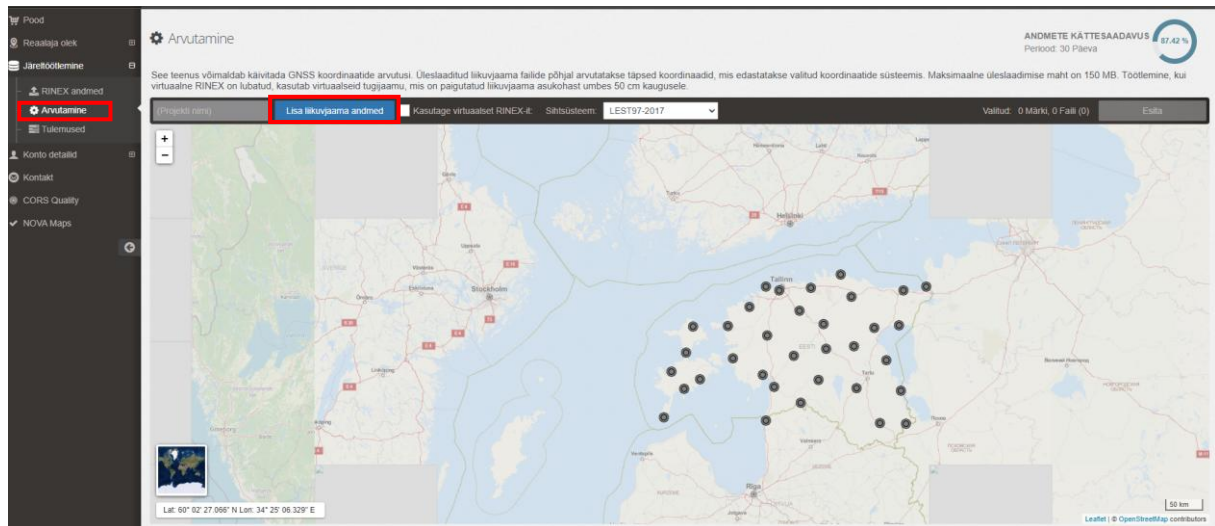
Epohhid: 240

Valmis

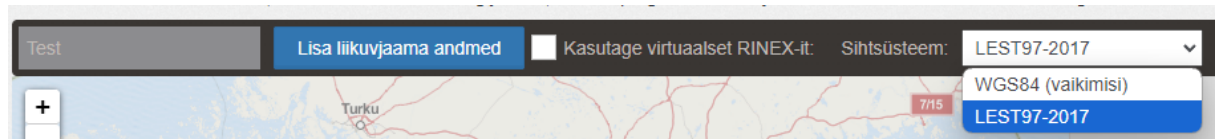
100%

Computation service

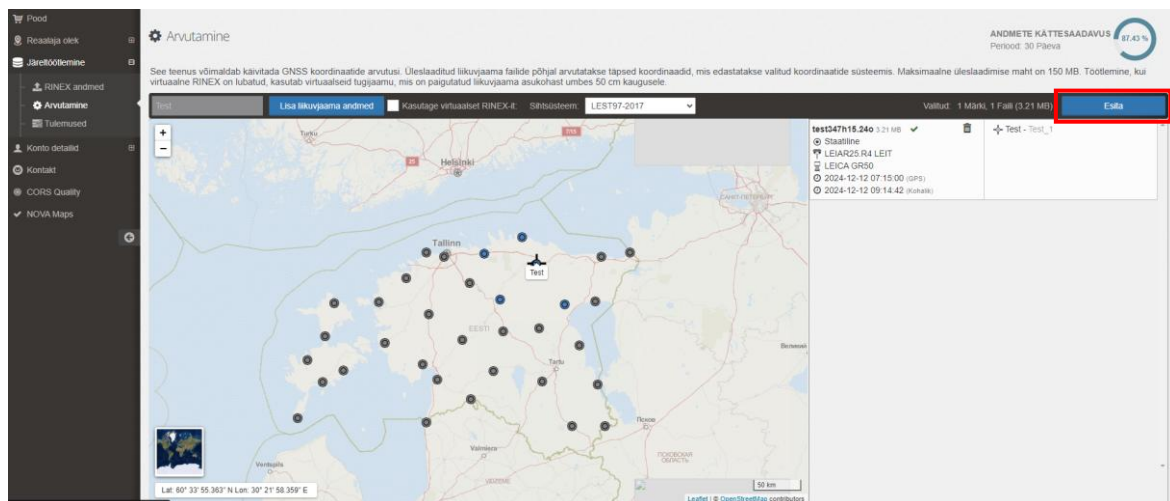
- 1) Choose **Computation** under **Post Processing**.
- 2) To add your rover data select **Add Rover Data**. Only RINEX format data is supported.



- 3) The results (**Target System**) can be computed in the international geodetic system (WGS84) or in the Estonian national coordinate system L-EST97 (LEST97-2017). LEST97-2017 Target System uses the Estonian geoid model to get the orthometric height H.



- 4) Select **Submit**.



6) Select **Confirm**.

Koordinaatide arvutamine "Test"

Päringu tegija TEST_USER sees 2024-12-12 12:27:19

Kinnita

Katkesta

1 Faili, 3.21 MB

7) User is taken to the **Results** page.

Pood

Reaalaja olek

Järeldõtkmine

RINEX andmed

Arvutamine

Tulemused

Konto detailid

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeldõtkusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

Koordinaatide arvutused

2. Toodeidud 2024-12-12 12:27:57

1 Faili, 0 Punktid

Sihisüsteem: LEST97-2017

Projekt: [Test](#)

Kasutage virtuaalset RINEX-i: Ei

NB! If the gear icon is visible, then the data is being processed. The duration of data processing depends on the length of the input data file and the recording interval. The calculation of an input data file with a length of 3 hours and a recording interval of 1 second can take up to 20 minutes.

Pood

Reaalaja olek

Järeldõtkmine

RINEX andmed

Arvutamine

Tulemused

Konto detailid

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeldõtkusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

Koordinaatide arvutused

2. Toodeidud 2024-12-12 12:27:57

1 Faili, 0 Punktid

Sihisüsteem: LEST97-2017

Projekt: [Test](#)

Kasutage virtuaalset RINEX-i: Ei

8) Results are ready when the button **Full report** is active.

Pood

Reaalaja olek

Järeldõtkmine

RINEX andmed

Arvutamine

Tulemused

Konto detailid

Kontakt

CORS Quality

NOVA Maps

Tulemused

Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeldõtkusteenusega seotud tulemused.

RINEX andmed

Virtuaalse RINEX-i andmed

Koordinaatide arvutused

2. Toodeidud 2024-12-12 12:27:57

1 Faili, 1 Punktid

Sihisüsteem: LEST97-2017

✓

Projekt: [Test](#)

Kasutage virtuaalset RINEX-i: Ei

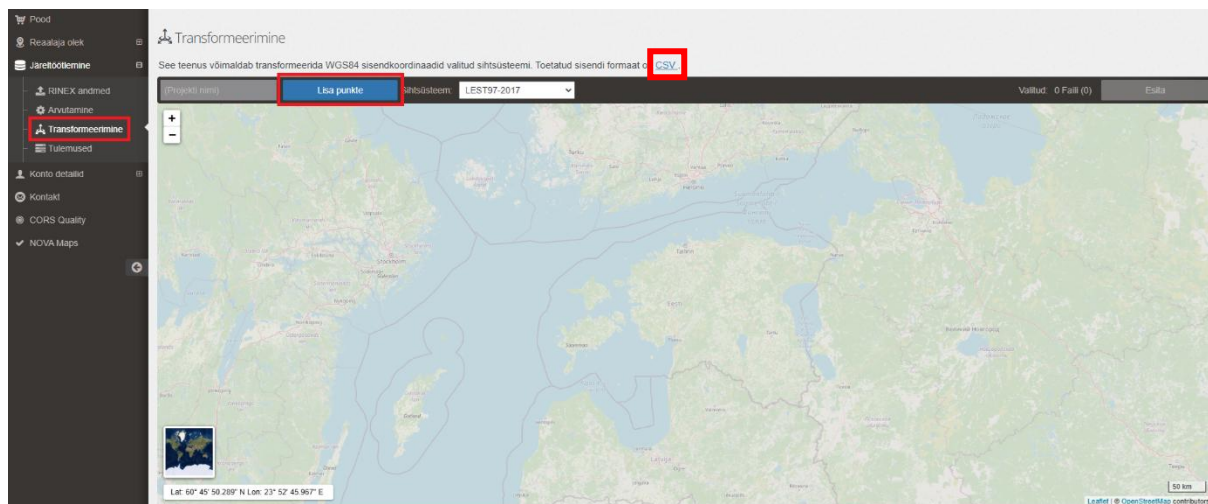
[Näita faili üksikasju](#)

Taotle arvutust

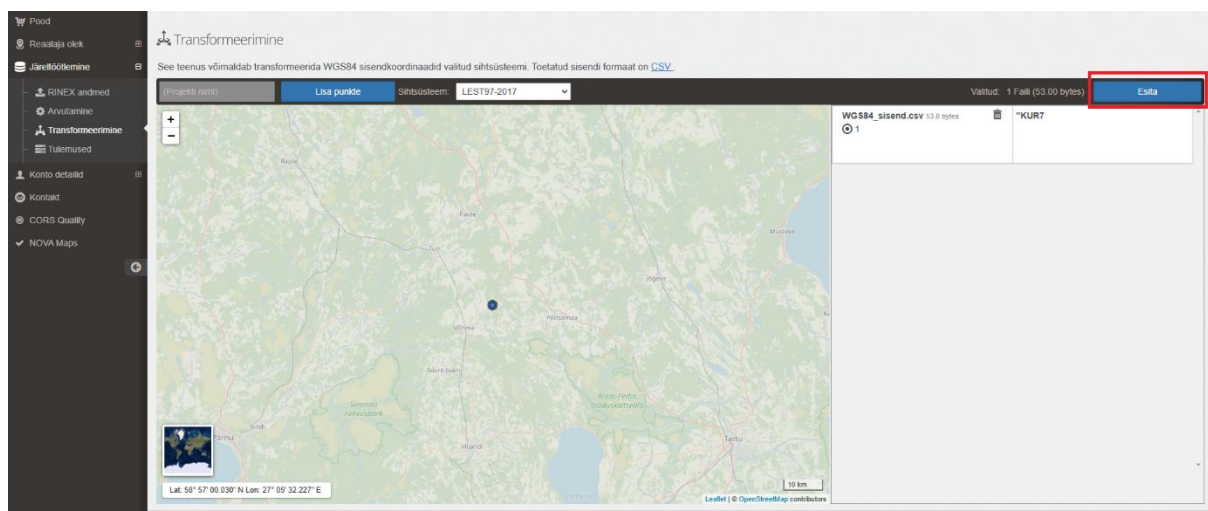
Punkt	Vaatus aeg	Kohaik võrk (E,N,A,H) LEST97-2017	Kohaik peodeetiline asukoht	WGS84 peodeetiline	Kvaliteet	
Test	2024-12-12 09:14:42, 119 min	634657 2996 m ± 0.0011 m 6583299 9299 m ± 0.0007 m 52.0293 m	59° 21' 58.7590" N ± 0.0011 m 26° 22' 06.7800" E ± 0.0007 m 69.0525 m ± 0.0028 m	59° 21' 58.7590" N ± 0.0011 m 26° 22' 06.7800" E ± 0.0007 m 69.0524 m ± 0.0028 m	0.0031 m Phase Fixed	Näita arvutust

Transformation service

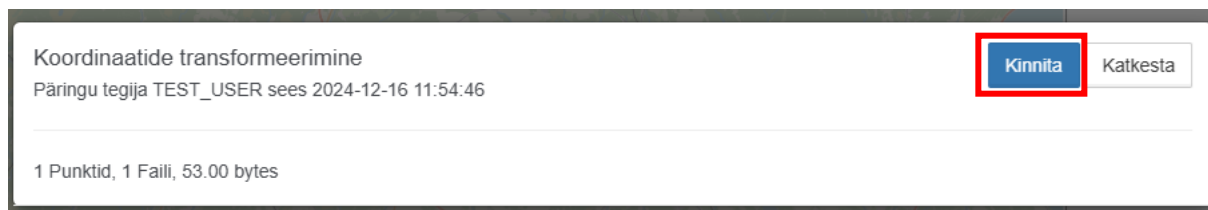
- 1) Choose **Transformation** under **Post Processing**.
- 2) The **Add Points** option allows you to upload XYZ geocentric coordinates in the WGS84 coordinate system. The input file must be in CSV format. More detailed instructions about the input file can be seen under the **CSV** option.



- 3) Select **Submit**.



- 4) Select **Confirm**.



- 5) User is taken to the **Results** page. The results can be downloaded in CSV format using the **Export** option.

The screenshot shows the 'Tulemused' (Results) page in a web application. The left sidebar contains navigation options: 'Pood', 'Reasaja olek', 'JäreldOskmine', 'RINEX andmed', 'Anyufamine', 'Transformeeringine', 'Tulemused', 'Konto detailid', 'Kontakt', 'CORS Quality', and 'NOVA Maps'. The main content area has a header with 'Tulemused' and a sub-header 'Sellel lehel kuvatakse kategooriate kaupa kõik SBC järeldOskminega seotud tulemused.' Below this, there are tabs for 'RINEX andmed', 'Virtuaalse RINEX-i andmed', 'Koordinaatide arvutused', and 'Koordinaatide transformeerimine'. The 'Koordinaatide transformeerimine' tab is active. It shows a summary: '3. Töödeldud 2024-12-16 11:55:59', '1 Faili, 1 Punktid', and 'Sihtsüsteem: LEST97-2017'. A red box highlights the 'Eksport' button. Below the summary is a table with the following data:

Faili nimi	Punkti nimi	Kohaik vörk (E,N,H)	Transformeeritud koordinaadid		Juhuslik	
			Kohaik tasapinnaliste ristkoordinaatide asukoht			
W0584_stand.csv	Y0UR7	597377.9271 m 6506085.0770 m 61.8825 m	2995073.3799 m 1440090.4139 m 5425765.8378 m		NO	