



# E800

2020.12.11 by eSurvey GNSS

# E800

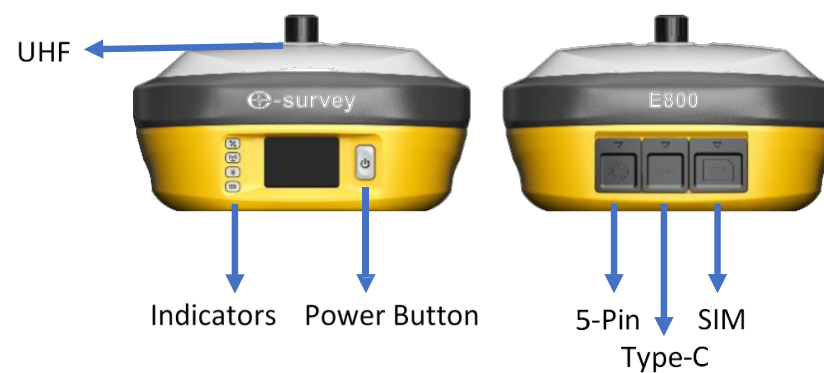
## SAŽETAK

- Pregled
- Glavne značajke
- Specifikacije
- Konfiguracije
- Softver



# Pregled

- 154mm \* 154mm \* 76mm
- 1.5 kg
- 5W ugrađen radio
- Interni 4G
- Punjenje tipa C
- Ugrađena baterija



## Glavne značajke

- All GNSS Signals: 336/800 channels



## Glavne značajke

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- Communication



Bluetooth



WIFI



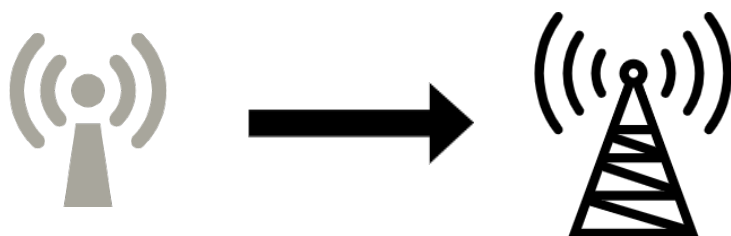
4G mreža



Radio

## Glavne značajke

- Ugrađen 5w radio

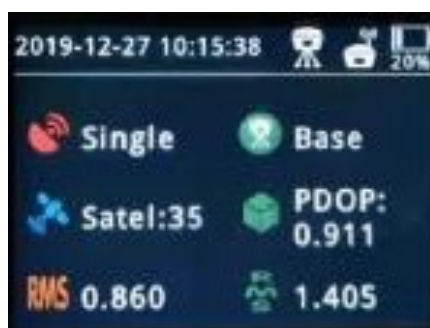


Moćni interni radio modem:

- 2W / 5W podesivo
- do 10 km prijem
- podrška uobičajenih protokola

## Glavne značajke

- Zaslou u boji osjetljiv na dodir



Zaslou u boji osjetljiv na dodir:

- 1.45-inch LCD zaslou
- Izraženih boja
- Osjetljiv na dodir
- Podržava promjenu radnih konfiguracija

## Glavne značajke

- IMU mjerenje nagiba



E800 je opremljen IMU senzorom.

- Brza inicijalizacija
- Nagib štapa pri snimanju
- Nagib štapa pri iskolčavanju
- Do 60 °
- Točnost <3cm
- Bez magnetskih smetnji

## Glavne značajke

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- Ugrađena baterija

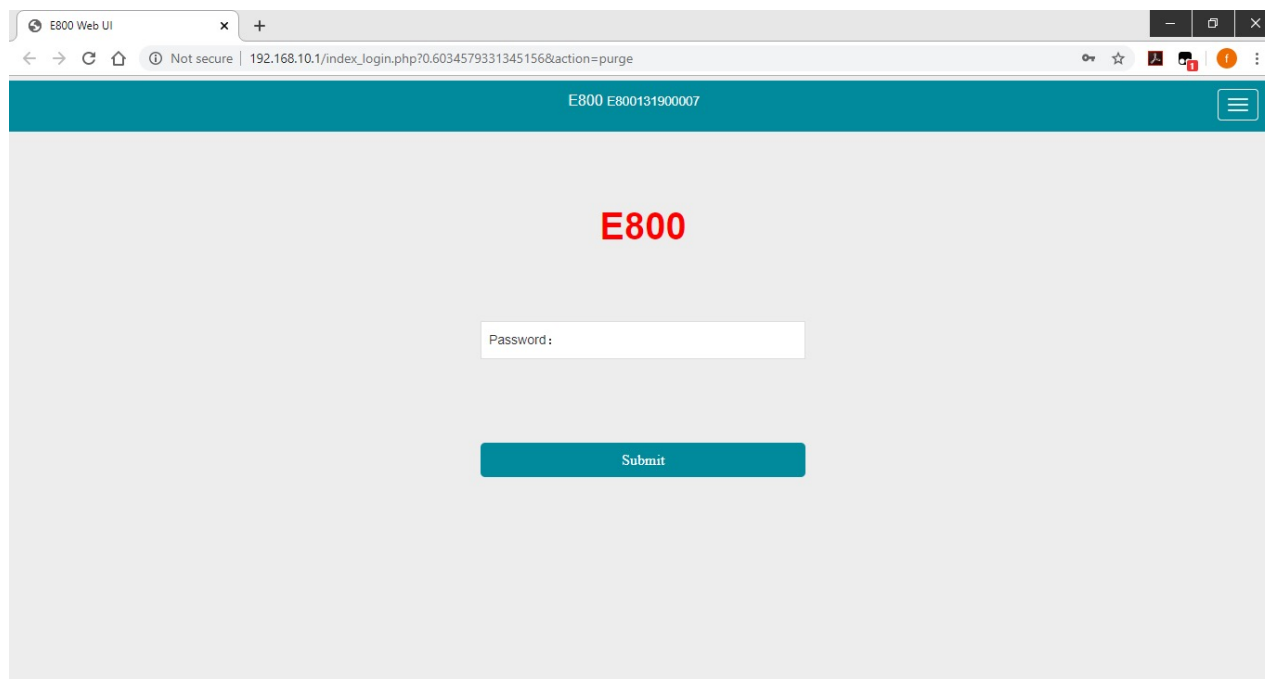


### Ugrađena Li-on baterija

- 7,2 V, 13600 mAh
- do 15 sati
- potpuno punjenje u roku od 5 sati
- podrška energetske banke

# Glavne značajke

- Web korisničko sučelje

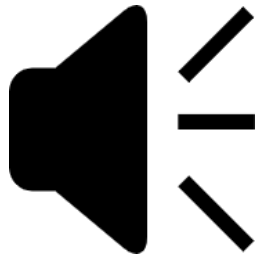


Korisničko sučelje pametnog weba

- Povežite računalo, telefon i tablet
- Prikaz statusa uređaja
- Postavljanje načina rada
- Preuzmite neobrađene podatke
- Ažurirajte firmver

# Glavne značajke

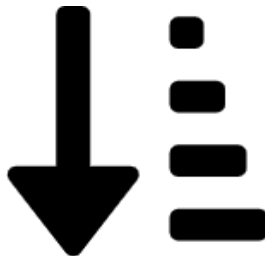
- Additional Features



Glasovni asistent



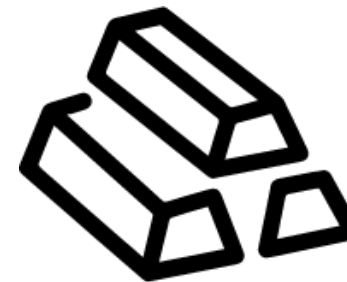
IP67



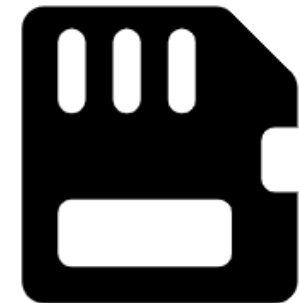
Podnosi pad na beton s visine 1.2 m



-30°C ~ +65°C



Legura magnezija



32 GB memorija

## E800-H

### Specifikacija proizvoda

GNSS		Tip	TX i RX
Praćenje satelita	GPS: L1CA/L1P/L1C/L2P/L2C/L5 BDS: B1/B2/B3/B1C/B2a/B2b/ ACEBOC	Raspon frekvencija	410 ~ 470 MHz
	GLONASS: G1/G2/G3, P1/P2	Razmak kanala	12.5 KHz / 25 KHz
	GALILEO: E1/E5a/E5b/E6/ALTB0C	Emitirajuća snaga	5 W
	QZSS: L1CA/L1C/L2C/L5/LEX	Dometa rada	8 ~ 10 Km tipično 15Km uz optimalne uvjete <sup>2</sup>
	IRNSS: L5 SBAS1: L1/L5 L-Band: Atlas H10/H30/Basic	Protokol	Satel, PCC, TrimTalk, TrimMark III, South, HITarget
Kanali	800	<b>Internet Modem</b>	
Oporavak signala	< 1 sekundu	Band za podršku	Global GSM /WCDMA/LTE
Hladni start	< 10 sekundi	<b>Komunikacija</b>	
Topli početak	< 10 sekundi	Bluetooth	BT 5.0, BLE
Vrući početak	< 10 sekundi	WiFi	802.11 ac/n(HT20)/a/b/g
Inicijalizacija RTK signala	< 8 sekundi	SIM Kartica	Mikro SIM kartica
Pouzdanost inicijalizacije	> 99.9%	5-pinski priključak	spojite se na vanjski radio i napajanje, NMEA izlaz
Stopa ažuriranja	10 Hz standard, do 50 Hz	Priključak tipa C	pristup punjenju i internoj pohrani
Operacijski sustav	Linux	TNC priključak	Spojte na unutarnju radio antenu
Unutarnja memorija	32 GB	Web korisničko sučelje	pregledajte status, ažurirajte softver, postavite način rada, preuzmite podatke emitirani radni status
<b>Performanse</b>		Glasovni asistent	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binarni
Statička visoka preciznost	H: 2 mm + 0.1 ppm V: 3 mm + 0.4 ppm	NMEA izlaz	CMR, CMR+, RTCM2, RTCM3, RTCM32
Statično / brzo Statično	H: 2.5 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm	Podaci o ispravci	brza inicijalizacija, dinamičko snimanje nagiba do 60°
RTK	H: 8 mm + 1.0 ppm V: 15 mm + 1 ppm	MEMS	
Kodni diferencijal	H: 0.25 m V: 0.45 m	<b>Fizički</b>	
SBAS	H: 0.3 m V: 0.6 m	Dimenzija	154 mm x 154 mm x 76 mm
L-Band	Atlas H10: 4 cm RMS	Težina	1.5 kg
	Atlas H30: 15 cm RMS	Zaslon	1.45" šareni dodirljivi zaslon
	Atlas Basic: 30 cm RMS	Temperatura rada	-40°C ~ +65°C
<b>Napajanje</b>		Temperatura skladištenja	-45°C ~ +80°C
Baterija	punjiva i ugrađena litij-ionska baterija, 7.2 V ~ 13.6 Ah	Otpornost na vodu/prašinu	IP67
Napon	9 ~ 28 VDC s prenaponskom zaštitom	Otpornost na udarce	Preživljava pad od 2 m na betonsku površinu
Radno vrijeme	do 15 sati	Vibracija	otporan na vibracije
Vrijeme punjenja	do 5 sati	Vlažnost	do 100%
<b>Interni radio</b>		Pokazatelji	sateliti, podatkovna veza, baterija, Bluetooth
		Dugme	gumb za napajanje, kratko pritisnite za glasovno emitiranje
		Certifikat	CE, FCC, NGS kalibracija

1. SBAS podržava WAAS, EGNOS, GAGAN, SDGM, MSAS.

2. Ovisite o okolišu i elektromagnetskim smetnjama.











## E800-T

<b>GNSS</b>		Channel Spacing	12.5 KHz / 25 KHz	
Satellites Tracking	GPS: L1CA/L2E/L2C/L5 BDS: B1/B2/B3 GLONASS: L1CA/L2CA/L3 CDMA GALILEO: E1/E5a/E5b/E6/ALTB0C QZSS: L1CA/L1 SAIF/L1C/L2C/LEX NAVIC: L5 SBAS1: L1/L5 L-Band: RTX	Emitting Power	5 W	
		Operation Range	8 ~ 10 Km typically 15Km with optimal conditions <sup>2</sup>	
		Protocol	Satel, PCC, TrimTalk, TrimMark III, South, HITarget	
	<b>Internet Modem</b>		Support Band	Global GSM /WCDMA/LTE
	<b>Communication</b>		Bluetooth	BT 5.0, BLE
Channels	336	WiFi	802.11 ac/n(HT20)/a/b/g	
Signal Reacquisition	< 1 sec	SIM Card	Micro SIM card	
Cold Start	< 10 sec	5-pin Port	Connect to external radio and power, NMEA output	
Warm Start	< 10 sec	Type-C Port	Charge and internal storage access	
Hot Start	< 10 sec	TNC Port	Connect to internal radio antenna	
RTK Signal Initialization	< 8 sec	Web UI	View status, update firmware, set up working mode, download data	
Initialization Reliability	> 99.9%	Intelligent Voice	Broadcast working status	
Update Rate	50 Hz standard, up to 50 Hz	NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary	
Operation System	Linux	Correction Data	CMR, CMR+, RTCM2, RTCM3, RTCM32	
Internal Memory	32 GB	MEMS	Fast initialization, dynamic tilt survey up to 60°	
<b>Performance</b>		<b>Physical</b>		
High Precision Static	H: 2mm + 0.1 ppm V: 3mm + 0.4 ppm	Dimension	154 mm x 154 mm x H/76 mm	
Static/Fast Static	H: 2.5mm + 0.1 ppm V: 3.5mm + 0.4 ppm	Weight	1.5 kg	
RTK	H: 8mm + 1.0 ppm V: 15mm + 1 ppm	Screen	1.45" colorful touchable screen	
Code Differential	H: 0.25 m V: 0.45 m	Operating Temperature	-40°C ~ +65°C	
SBAS	H: 0.3 m V: 0.6 m	Storage Temperature	-45°C ~ +80°C	
<b>Power Supply</b>		Water/Dust Proof	IP67	
Battery	Rechargeable and built-in Lithium-ion battery, 7.2 V ~ 13.6 Ah	Shock	Survive a 2 m drop on concrete floor	
Voltage	9~28 V DC with over-voltage protection	Vibration	Vibration resistant	
Working Time	Up to 15 hours	Humidity	Up to 100%	
Charging Time	Typically 5 hours	Indicators	Satellites, datalink, battery, Bluetooth	
<b>Internal Radio</b>		Button	Power button, short press to voice broadcast status	
Type	TX and RX	Certificate	CE, FCC, NGS Calibration	
Frequency Range	410 ~ 470 MHz			










1. SBAS supports WAAS, EGNOS, GAGAN, SDGM, MSAS.

2. Depend on the environment and electromagnetic interference.

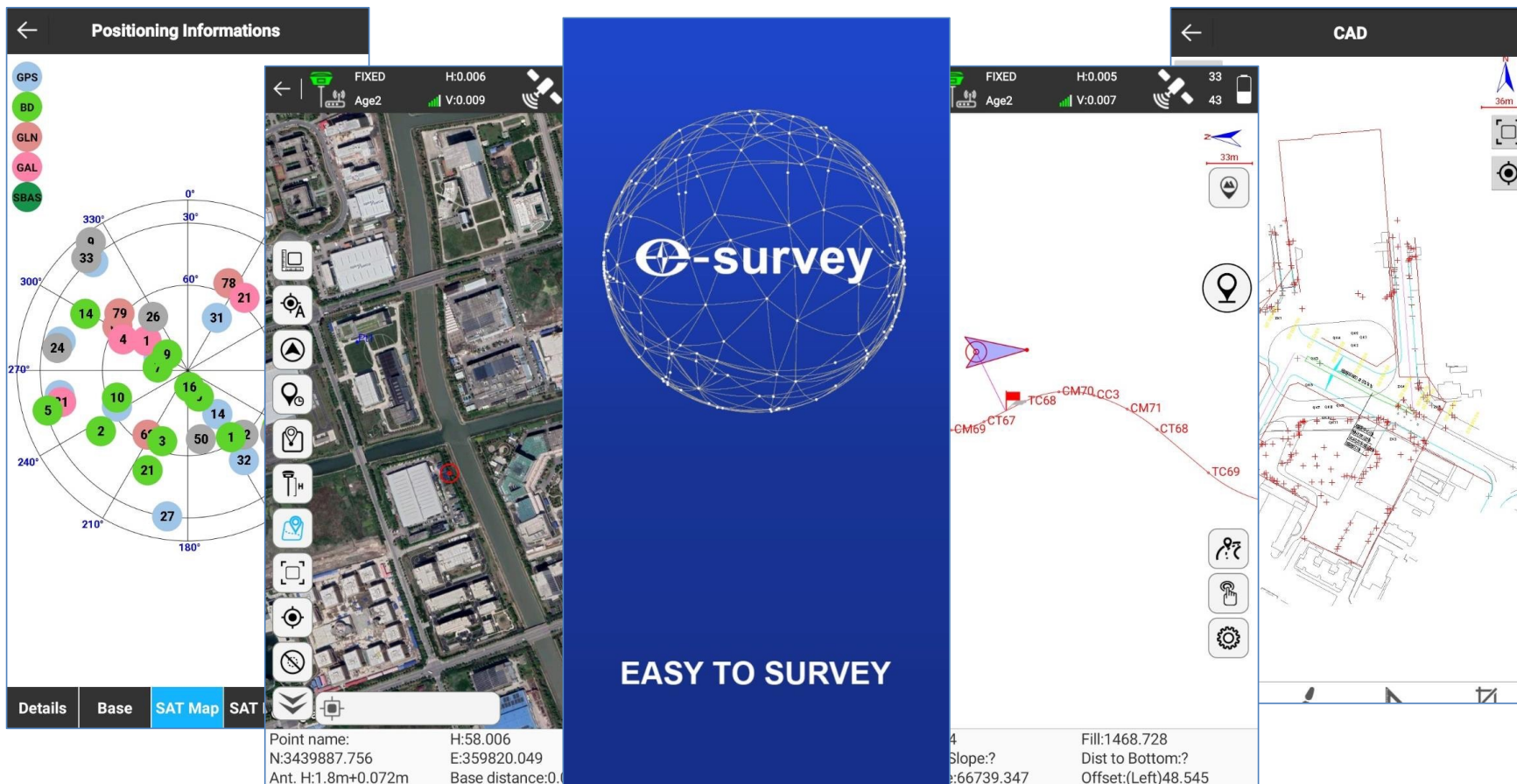
# Konfiguracija

E800 Base					
NO.	Items	Quantity	Model	Description	Picture
1	Base Carrying Case	1	---	Carry case for E800	
2	E800 GNSS Receiver	1	---	---	
3	Charger	1	KSA-45P-45W D5	Type-C port	
4	Power Cable	1	---	Type-C to Type-C	
5	Charger Plug	4	---	---	
6	Measure Tape	1	---	3m/10ft-16mm	
7	UHF Antenna	1	QT440A	Internal UHF Antenna, 430-450MHz, 4dBi, TNCJ	
8	Screw Connector	1	---	---	
9	Tray	1	---	---	
10	Warranty Card	1	---	---	

# Konfiguracija

E800 Rover					
NO.	Items	Quantity	Model	Description	Picture
1	Rover Carrying Case	1	---	Carry case for E800	
2	E800 GNSS Receiver	1	---	---	
3	Charger	1	KSA-45P-45W D5	Type-C port	
4	Power Cable	1	---	Type-C to Type-C	
5	Charger Plug	4	---	---	
6	Measure Tape	1	---	3m/10ft-16mm	
7	UHF Antenna	1	QT440A	Internal UHF Antenna, 430-450MHz, 4dBi, TNCJ	
8	Screw Connector	1	---	---	
9	Warranty Card	1	---	---	

# Softver za prikupljanje podataka-SurPad4.0



The image displays three panels from the e-survey mobile application. The left panel, titled "Positioning Informations", shows a circular diagram of satellite constellations (GPS, BD, GLN, GAL, SBAS) and a grid of satellite numbers. The center panel features the "e-survey" logo and the slogan "EASY TO SURVEY". The right panel, titled "CAD", shows a 2D site plan with various points and lines, including labels like "TC68", "CM70", "CC3", "CM71", "CT68", "CT69", "TC69", "CM69", and "CT67".

Positioning Informations

GPS  
BD  
GLN  
GAL  
SBAS

FIXED H:0.006 V:0.009  
Age2

Details Base SAT Map SAT

Point name: H:58.006  
N:3439887.756 E:359820.049  
Ant. H:1.8m+0.072m Base distance:0.

CAD

FIXED H:0.005 V:0.007  
Age2

33 43

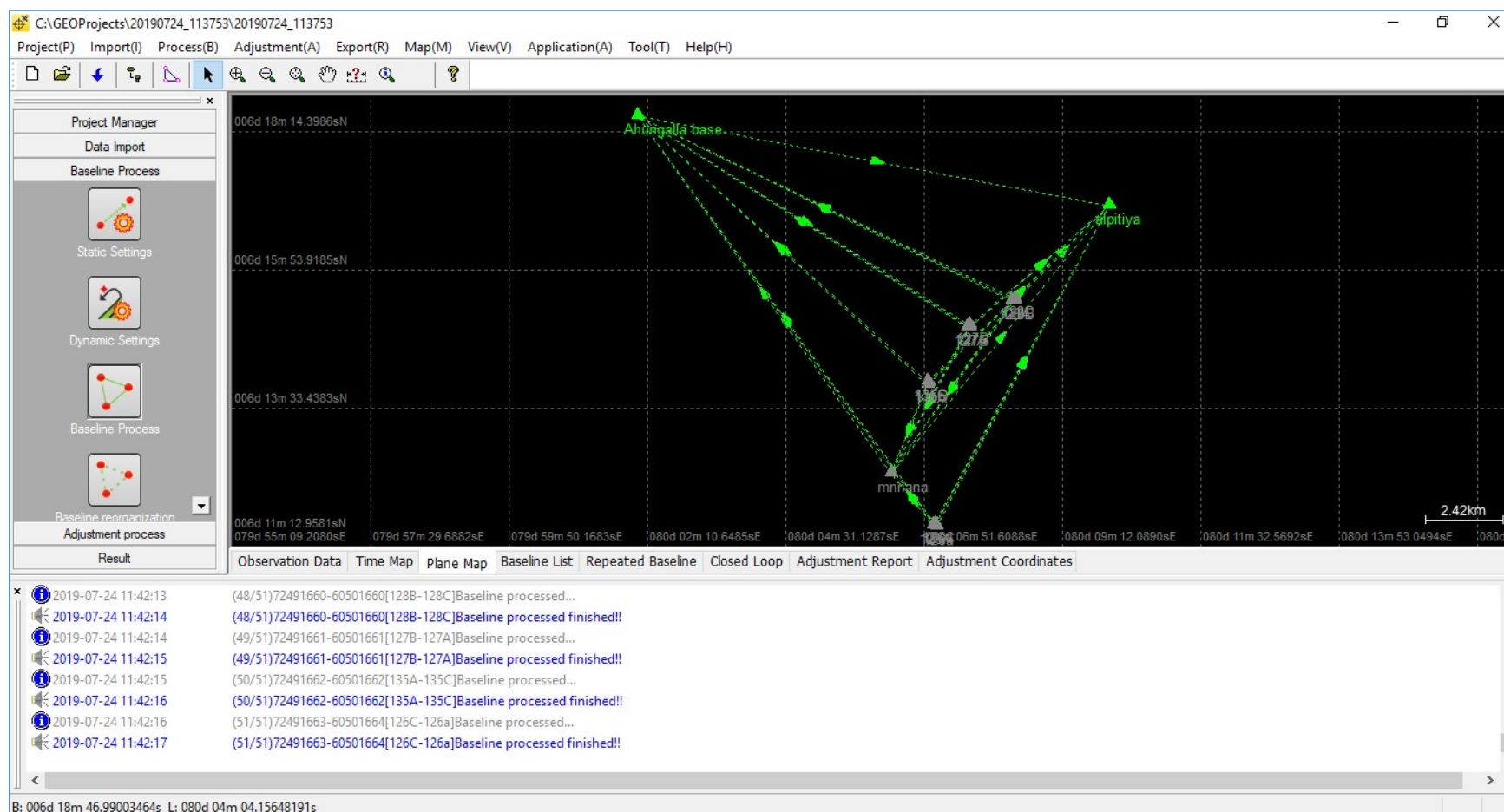
3m

3m

TC68 CM70 CC3 CM71 CT68 CT69 TC69 CM69 CT67

4  
Slope:? Fill:1468.728  
:66739.347 Dist to Bottom:?  
Offset:(Left)48.545

# Softver za naknadnu obradu podataka-GEOSolution





***HVALA***

<http://www.esurvey-gnss.hr/>

