



CNC

CENTRUL
NATIONAL DE
CARTOGRAFIE
CENTRO NACIONAL DE
CARTOGRAFIA

ROMPOS



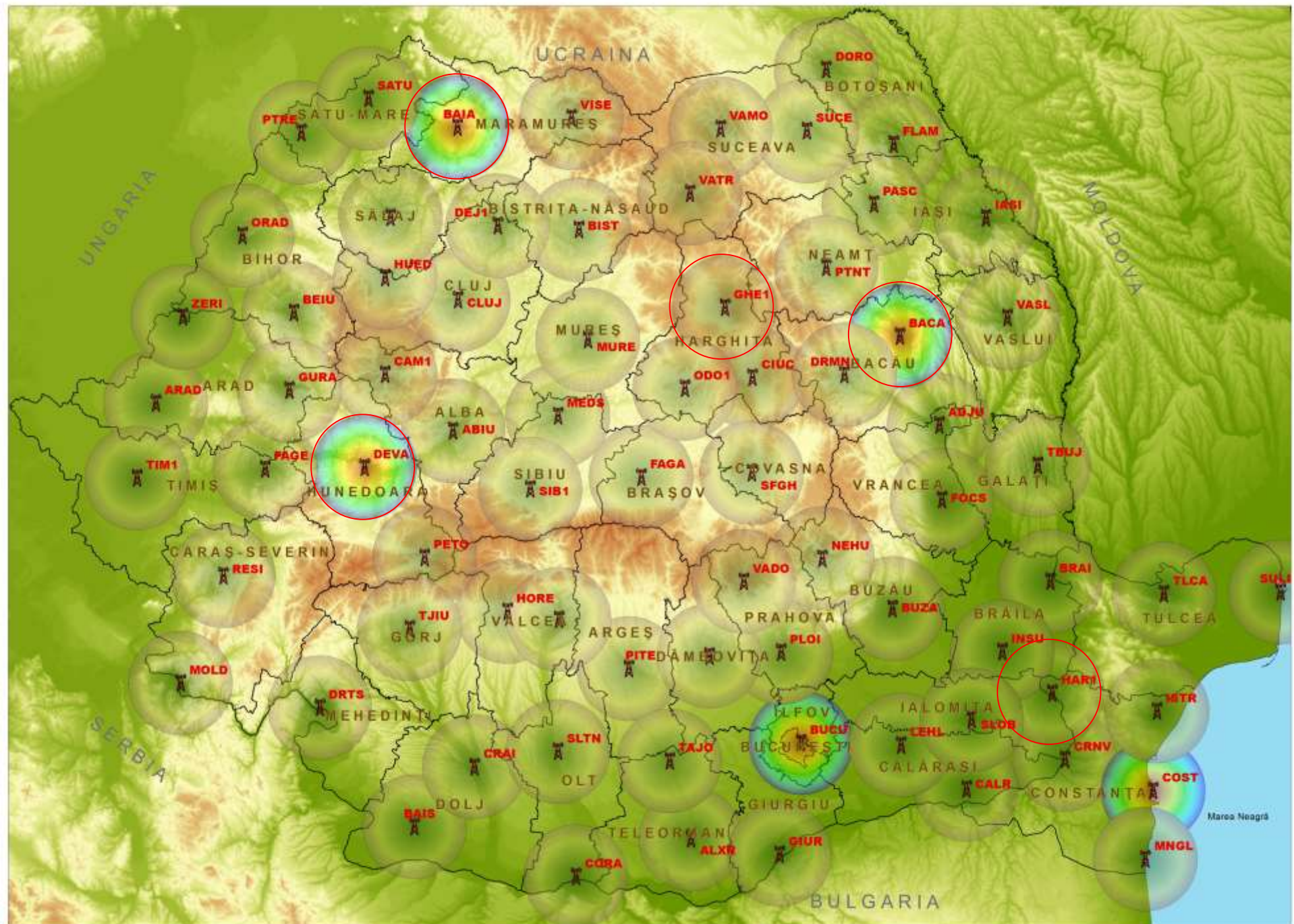
Romanian Position Determination System

STATUS REPORT -2018-

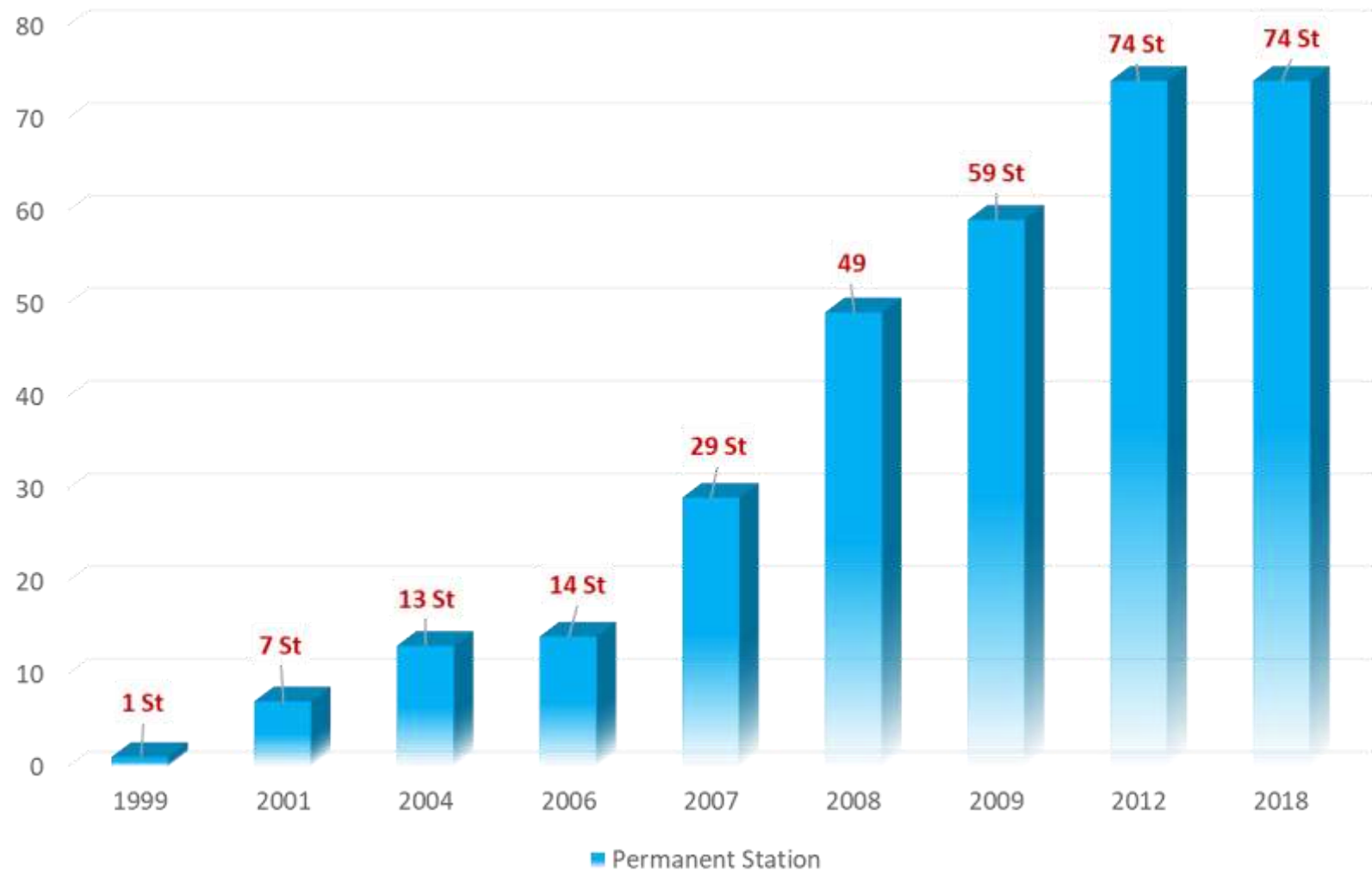
Miluță FLUERAȘ

Current status

- Area – 237500 sq.km
- 74 permanent stations in Romania
- 5 EPN
- 1 IGS
- 5GPS
- Medium distance between stations is 70 km
- All stations are integrated in EUPOS system



Evolution



2018

6 New GNSS Stations are to be
delivered in November

45 Leica Stations
29 Topcon Stations

What's new



National Agency for
Cadastre and Land
Registration (ANCPi)
created ROMPOS
according to EUPOS
standards



Since March 2018
ROMPOS
administration was
taken over by CNC,
according to Order no.
217/2018 of the
General Director of
ANCPi



There are included 5
GPS and 69 GNSS
(GPS+GLONASS)



9 reference stations
have Galileo
capabilities



Effective data exchange
with Serbia was tested,
the Agreement has to
be signed



For all permanent
stations precise height
determination was
made to track changes
in time



Major updates

New website – GDPR ready

2018



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[află mai multe despre sistemul ROMPOS](#)

PREZENTARE ROMPOS

[informații complete despre serviciile ROMPOS](#)

MANUALUL UTILIZATORULUI ROMPOS

[pentru observații de tip RINEX](#)

FORMULAR COMANDĂ DATE

Serviciile ROMPOS funcționează în parametri normali.

Stații neoperaționale momentan: **CHEL, RESI**

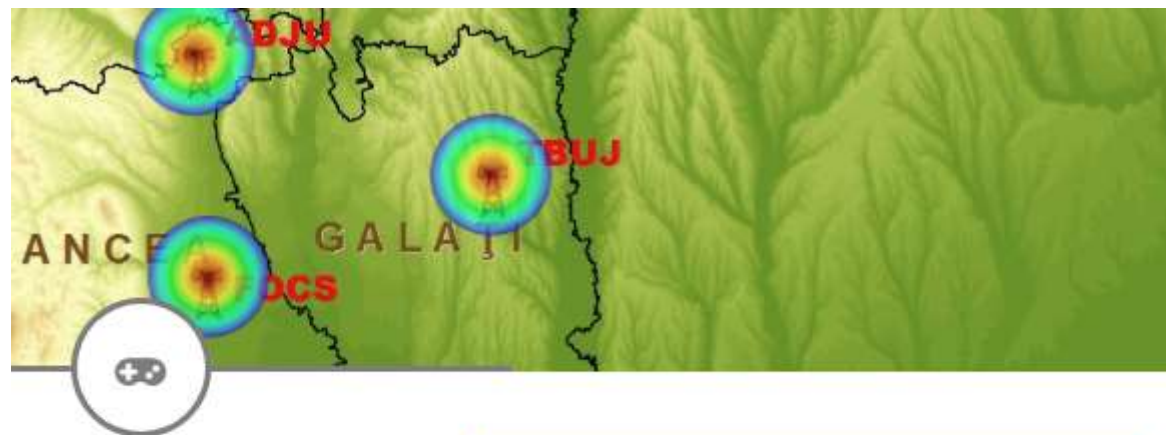
Ce este ROMPOS?

ROMPOS este un sistem românesc de determinare a poziției prin care se asigură poziționări precise în sistemul de referință și coordonate europene ETRS89.

Major updates

New website – Live Support

2018



tu observații de tip RINEX

IULAR COMANDĂ DATE



rdonate european ETRS89.

baza rețelei naționale de stații GNS

Vorbește cu un operator

Completează formularul pentru a vorbi cu un operator



Nume



E-mail

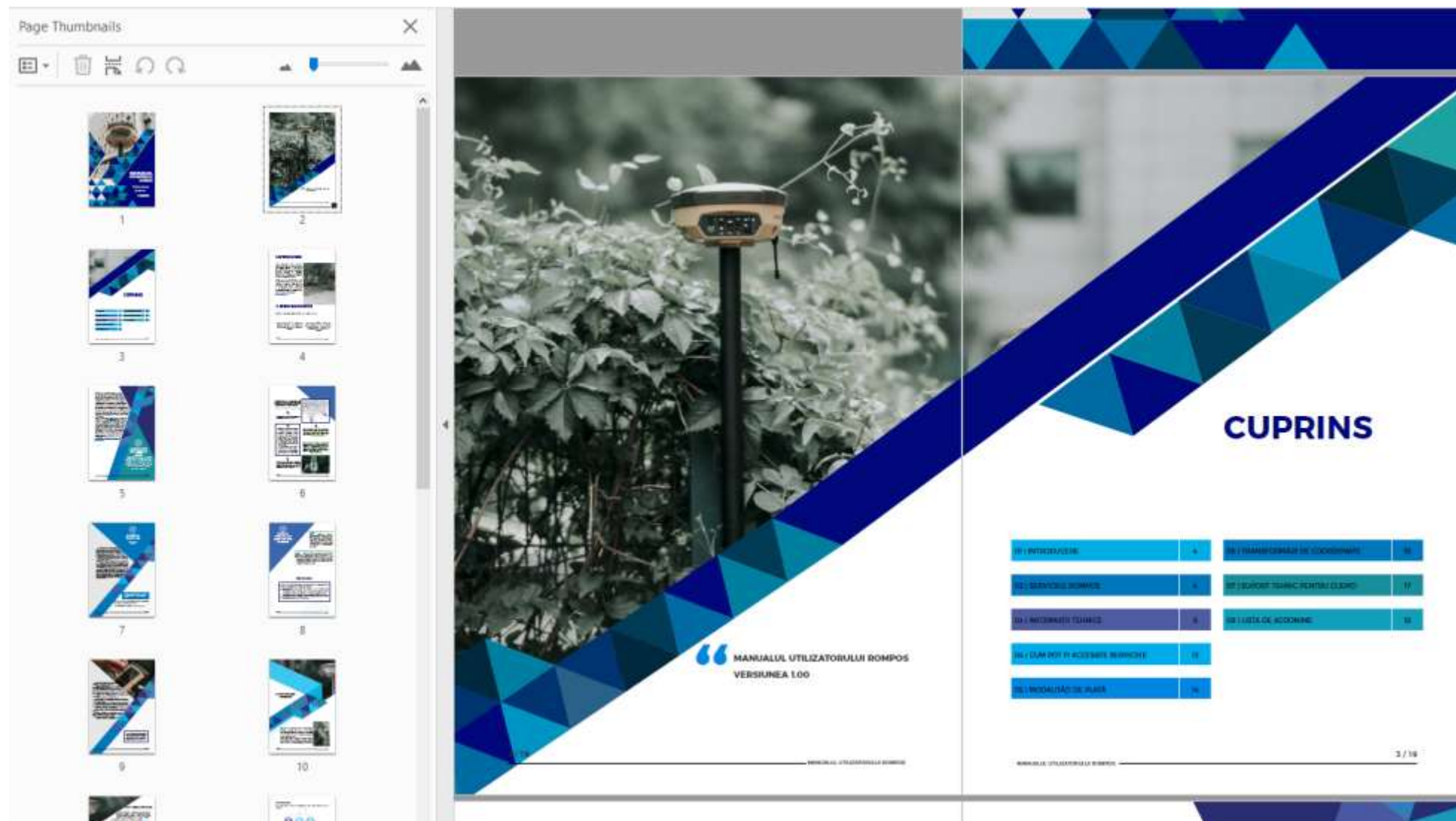


Începe

Major updates

New website – User Manual

2018



Major updates

New website – Dynamic PDF form for GN
Data Requests



2018

FORMULAR DE SOLICITARE DATE GNSS

Către **ANCPI/OCPI**

Solicitant (nume și prenume/denumirea): CNP:

Domiciliul/Sediul:

Calitatea: PFA ☐ PJA ☐ Instituție ☐ Persoană fizică ☐ Persoană juridică ☐

Tel: Fax:

E-mail:

Reprezentat de: Numele Prenumele

Vă rugăm să ne furnizați înregistrările GNSS conform parametrilor menționați mai jos

Tip date GNSS: ☐ GPS ☐ GPS+GLONASS Nr. frecvențe: 2

Interval de înregistrare: ☐ 1s ☐ 5s ☐ 10s ☐ 15s ☐ 30s Unghi minim de elevație: 5° Format de date: RINEX

Livrarea datelor se face pe: ☐ ftp ☐ suport optic/stick memorie/HDD extern ☐ e-mail

☐ Tariful a fost achitat cu chitanță/OP

☐ Datele sunt solicitate în mod gratuit în baza

Nr.crt.	Stația GNSS permanentă	Data		Oră start		Oră stop		Observații
		Civilă	Ziua* GPS	Timp local	Timp* univ.	Timp local	Timp* univ.	

Timpul local (TL): TL = UTC + 2h (iama); TL = UTC+ 3h (vara); (UTC - Timp Universal Coordonat

* - se va completa de personalul CNC/OCPI

Lucrările pentru care sunt necesare produsele solicitate sunt următoarele:

ANGAJAMENT

Subsemnatul(a) declar pe propria-mi răspundere că voi folosi produsele solicitate numai în cadrul lucrărilor care fac obiectul acestei cereri. Mă oblig să nu transmit/copiez/comercializez și nu facilitez accesul la aceste produse altor persoane.

Data

Semnătura

Obs: 1. Denumirile fișierelor vor fi în conformitate cu standardele IGS și EUREF.

De exemplu, pentru observații de la stația "Iași" în data de 12.05.2016 (DoY=133):

„IASI1330.16o” - fișier de observații; „IASI1330.16n” și „IASI1330.16g” - fișiere de navigație.

2. Pentru lista de stații GNSS permanente ale ANCPI, accesați link-ul <http://gnss.rompos.ro/spiderweb>

3. Pentru date GNSS de la stația "BUCU" (București), vă rugăm să adresați solicitarea către Universitatea Tehnică de Construcții București - Facultatea de Geodezie (e-mail: gnss.bucu@gmail.com).

Aceste date sunt produse de ANCPI, sunt furnizate cu respectarea prevederilor legale în vigoare și pot fi utilizate numai solicitantului în scopul declarat.

Distribuirea acestor date către terți este interzisă. Orice încălcare a acestor prevederi atrage răspunderea civilă sau penală, după caz, a solicitantului.

Agencia Națională de Cadastru și Publicitate Imobiliară/Oficiul de Cadastru și Publicitate Imobiliară prelucrează datele cu caracter personal furnizate de dumneavoastră în scopul furnizării datelor de la stațiile GNSS permanente administrate de ANCPI prin oficiile teritoriale.

Major updates

New website – Map service for displaying GNSS Stations

2018

The screenshot displays a web-based map service for Romania. The main map area shows a satellite view of the country, with numerous GNSS stations marked by green triangles. The stations are labeled with codes such as E576, E574, E571, E570, E569, E568, E567, E566, E565, E564, E563, E562, E561, E560, E559, E558, E557, E556, E555, E554, E553, E552, E551, E550, E549, E548, E547, E546, E545, E544, E543, E542, E541, E540, E539, E538, E537, E536, E535, E534, E533, E532, E531, E530, E529, E528, E527, E526, E525, E524, E523, E522, E521, E520, E519, E518, E517, E516, E515, E514, E513, E512, E511, E510, E509, E508, E507, E506, E505, E504, E503, E502, E501, E500, E499, E498, E497, E496, E495, E494, E493, E492, E491, E490, E489, E488, E487, E486, E485, E484, E483, E482, E481, E480, E479, E478, E477, E476, E475, E474, E473, E472, E471, E470, E469, E468, E467, E466, E465, E464, E463, E462, E461, E460, E459, E458, E457, E456, E455, E454, E453, E452, E451, E450, E449, E448, E447, E446, E445, E444, E443, E442, E441, E440, E439, E438, E437, E436, E435, E434, E433, E432, E431, E430, E429, E428, E427, E426, E425, E424, E423, E422, E421, E420, E419, E418, E417, E416, E415, E414, E413, E412, E411, E410, E409, E408, E407, E406, E405, E404, E403, E402, E401, E400, E399, E398, E397, E396, E395, E394, E393, E392, E391, E390, E389, E388, E387, E386, E385, E384, E383, E382, E381, E380, E379, E378, E377, E376, E375, E374, E373, E372, E371, E370, E369, E368, E367, E366, E365, E364, E363, E362, E361, E360, E359, E358, E357, E356, E355, E354, E353, E352, E351, E350, E349, E348, E347, E346, E345, E344, E343, E342, E341, E340, E339, E338, E337, E336, E335, E334, E333, E332, E331, E330, E329, E328, E327, E326, E325, E324, E323, E322, E321, E320, E319, E318, E317, E316, E315, E314, E313, E312, E311, E310, E309, E308, E307, E306, E305, E304, E303, E302, E301, E300, E299, E298, E297, E296, E295, E294, E293, E292, E291, E290, E289, E288, E287, E286, E285, E284, E283, E282, E281, E280, E279, E278, E277, E276, E275, E274, E273, E272, E271, E270, E269, E268, E267, E266, E265, E264, E263, E262, E261, E260, E259, E258, E257, E256, E255, E254, E253, E252, E251, E250, E249, E248, E247, E246, E245, E244, E243, E242, E241, E240, E239, E238, E237, E236, E235, E234, E233, E232, E231, E230, E229, E228, E227, E226, E225, E224, E223, E222, E221, E220, E219, E218, E217, E216, E215, E214, E213, E212, E211, E210, E209, E208, E207, E206, E205, E204, E203, E202, E201, E200, E199, E198, E197, E196, E195, E194, E193, E192, E191, E190, E189, E188, E187, E186, E185, E184, E183, E182, E181, E180, E179, E178, E177, E176, E175, E174, E173, E172, E171, E170, E169, E168, E167, E166, E165, E164, E163, E162, E161, E160, E159, E158, E157, E156, E155, E154, E153, E152, E151, E150, E149, E148, E147, E146, E145, E144, E143, E142, E141, E140, E139, E138, E137, E136, E135, E134, E133, E132, E131, E130, E129, E128, E127, E126, E125, E124, E123, E122, E121, E120, E119, E118, E117, E116, E115, E114, E113, E112, E111, E110, E109, E108, E107, E106, E105, E104, E103, E102, E101, E100, E99, E98, E97, E96, E95, E94, E93, E92, E91, E90, E89, E88, E87, E86, E85, E84, E83, E82, E81, E80, E79, E78, E77, E76, E75, E74, E73, E72, E71, E70, E69, E68, E67, E66, E65, E64, E63, E62, E61, E60, E59, E58, E57, E56, E55, E54, E53, E52, E51, E50, E49, E48, E47, E46, E45, E44, E43, E42, E41, E40, E39, E38, E37, E36, E35, E34, E33, E32, E31, E30, E29, E28, E27, E26, E25, E24, E23, E22, E21, E20, E19, E18, E17, E16, E15, E14, E13, E12, E11, E10, E9, E8, E7, E6, E5, E4, E3, E2, E1, E0.

The right sidebar contains a search bar labeled 'Căută locații' and a list of stations. The first two stations are:

- FAGA**
Făgăraş
13 Strada Libertății, 507010 Făgăraş, Județul Braşov, România
- ABIU**
Alba Iulia
Strada Septimius Severus, 510001 Alba Iulia, Județul Alba, România

The bottom of the map shows the Google logo and copyright information: 'Date hartă ©2018 Google Imagini ©2018 TerraMetrics 20 km Condiții de utilizare Raportați o eroare pe hartă'.

Major updates

New website

Updated form for every GNSS Station



FIȘA DE DESCRIERE STAȚIE PERMANENTĂ GNSS

PITE

2018

Identificare Stație GNSS Permanentă				Vedere Detaliu		
Site ID	PITE					
Număr DOMES	11455M001					
Mod materializare	pilastru metalic					
Amplasament	Acoperișul clădirii OCPI AG					
Clasa	A					
Proiecte	RN-SGP					
Anul constituirii	2007					
Anul ultimei instalări	2007					
Echipamente						
Receptor GNSS	LEICA GRX1200GGPRO			Coordonate aproximative		
Antenă GNSS	LEIAT504GG LEIS			Coordonate elipsoidale ETRS89(GRS80)		
Senzor Meteo				B:44°51'14"	L:24°52'43"	H:338
				Coordonate carteziene geocentrice ETRS89(GRS80)		
				X[m]:4108963	Y[m]:1905460	Z[m]:4476110
Produse				Coordonate stereografice 1970 Cotă MN 1975		
				X[m]:372715	Y[m]:490532	H[m]:301
Fișier	Interval			Localizare		
1 oră	1 secundă	x	30 secunde	Localitate	Pitești	
24 ore	1 secundă	x	30 secunde	Județ	Argeș	
DGPS/RTK				Adresa	Str. Maior Gheorghe Șonțu nr. 8A	
v. RTCM	Tip Mesaj		Conexiune			
2.3, 3.1	1, 2, 18, 19, Extended		VPN			
Vedere receptor				Vedere generală		

Major updates

Service Monitoring

2018

Current Network Status

Last Updated: Mon Nov 12 13:43:41 EET 2018
Updated every 90 seconds
Nagios® Core™ 4.4.1 - www.nagios.org
Logged in as *miluta*

Host Status Totals

Up	Down	Unreachable	Pending
4	0	0	0
All Problems		All Types	
0		4	

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
25	1	0	0	0
All Problems		All Types		
1		26		

[View History For all hosts](#)
[View Notifications For All Hosts](#)
[View Host Status Detail For All Hosts](#)

Service Status Details For All Hosts

Limit Results:

Host	Service	Status	Last Check	Duration	Attempt	Status Information
SpiderServer	AutoServices	OK	11-12-2018 13:37:51	0d 0h 35m 50s	1/3	OK - Found 46 Services(s), 46 OK and 0 with problems (0 excluded).
	CPU	OK	11-12-2018 13:41:52	0d 0h 11m 49s	1/3	OK (Sample Period 599 sec) - Average CPU Utilisation 23.74%
	C_Drive	OK	11-12-2018 13:41:23	0d 0h 32m 18s	1/3	OK - C: Total=99.899GB, Used=86.692GB (86.8%), Free=13.207GB (13.2%)
	MEM	OK	11-12-2018 13:34:45	0d 0h 28m 56s	1/3	OK - Physical Memory: Total: 8GB - Used: 5.916GB (74%) - Free: 2.084GB (26%)
	Network_Server	OK	11-12-2018 13:36:15	0d 0h 37m 26s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Spider Network Server' (SpiderNetworkServer) is Running.
	SBC_Central	OK	11-12-2018 13:36:15	0d 0h 37m 26s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Spider Business Center (Central Server)' (SBCCentralServer) is Running.
	Site_Server	OK	11-12-2018 13:36:15	0d 0h 37m 26s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Spider Server' (SpiderServer) is Running.
	User_Conn_Log	OK	11-12-2018 13:36:49	0d 0h 36m 52s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Spider User Connection Log Server' (SpiderUserConnectionLogServer) is Running.
	ping	OK	11-12-2018 13:37:48	0d 0h 35m 53s	1/3	PING OK - Packet loss = 0%, RTA = 1.73 ms
SpiderWEB	AutoServices	OK	11-12-2018 13:34:32	0d 0h 29m 9s	1/3	OK - Found 62 Services(s), 62 OK and 0 with problems (0 excluded).
	CPU	OK	11-12-2018 13:41:16	0d 0h 12m 25s	1/3	OK (Sample Period 599 sec) - Average CPU Utilisation 37.33%
	C_Drive	OK	11-12-2018 13:36:03	0d 0h 27m 38s	1/3	OK - C: Total=149.899GB, Used=112.77GB (75.2%), Free=37.13GB (24.8%)
	E_Drive	WARNING	11-12-2018 13:42:48	0d 0h 30m 53s	3/3	WARNING - [Triggered by _Free%<20] - E: Total=1,945.597GB, Used=1,646.318GB (84.6%), Free=299.278GB (15.4%)
	F_Drive	OK	11-12-2018 13:39:09	0d 0h 34m 32s	1/3	OK - F: Total=1,945.598GB, Used=348.139GB (17.9%), Free=1,597.459GB (82.1%)
	MEM	OK	11-12-2018 13:41:48	0d 0h 31m 53s	1/3	OK - Physical Memory: Total: 8GB - Used: 5.371GB (67%) - Free: 2.628GB (33%)
	RTK	OK	11-12-2018 13:41:22	0d 0h 32m 19s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Spider RTK Server' (SpiderRTKServer) is Running.
	Web_QC1	OK	11-12-2018 13:36:15	0d 0h 37m 26s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'SpiderWebGNSSQCSERVICE' (SpiderWebGNSSQCSERVICE) is Running.
	Web_RINEX	OK	11-12-2018 13:37:33	0d 0h 36m 8s	1/3	OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'SpiderWebRINEXSERVICE' (SpiderWebRINEXSERVICE) is Running.
	http_RTK	OK	11-12-2018 13:36:15	0d 0h 37m 26s	1/3	HTTP OK: Status line output matched "SOURCETABLE 200 OK" - SOURCETABLE 200 OK - 20821 bytes in 0.061 second response time
gnss.rompos.ro	ping	OK	11-12-2018 13:37:30	0d 0h 36m 11s	1/3	PING OK - Packet loss = 0%, RTA = 1.29 ms
	DNS_ancpi	OK	11-12-2018 13:40:13	34d 5h 33m 30s	1/3	DNS OK :: Query time: 4 msec
	DNS_google	OK	11-12-2018 13:34:53	12d 17h 48m 50s	1/3	DNS OK :: Query time: 41 msec
	http_RTK	OK	11-12-2018 13:38:45	5d 22h 14m 56s	1/3	HTTP OK: Status line output matched "SOURCETABLE 200 OK" - SOURCETABLE 200 OK - 20821 bytes in 0.044 second response time
	http_extern_SBC	OK	11-12-2018 13:38:28	0d 1h 15m 13s	1/3	HTTP OK: HTTP/1.1 200 OK - 7274 bytes in 0.178 second response time
localhost	http_extern_SpiderWeb	OK	11-12-2018 13:39:35	10d 5h 44m 6s	1/3	HTTP OK: HTTP/1.1 200 OK - 3066 bytes in 0.058 second response time
	Root Partition	OK	11-12-2018 13:37:56	136d 2h 16m 5s	1/3	DISK OK - free space: / 49185 MB (96.11% inode=100%):

Major Software Upgrade

The upgrade of Leica GNSS Spider software in order to ensure the Galileo processing capabilities.

Reprocessing the entire Network

Purchase of a scientific GNSS data processing software for reprocessing the entire network

Online Training

Webinars for ROMPOS users, including the personnel of local offices for cadaster and land registration

Hardware Upgrade

6 new GNSS permanent stations

**Year
2019**

▶ **March 2018**

Site Server was inactive for 15 days due to a crash that made it unreachable through the usual network protocols.

▶ **March-November 2018**

Regular RTK proxy service "inactivity" that need partial restart of some services

▶ **March-November 2018**

SBC Connectivity problems that render new account creation inactive

▶ **March-November 2018**

Impossibility to create user logs and general logs due to the different build of the software installed to different virtual machines

▶ **March-November 2018**

WebRTK service inactivity that need partial or full virtual machine restart

▶ **Summer 2018**

Some GNSS stations encountered communication problems (low satellites number) caused by cable oxidized cables

▶ **March-November 2018**

Total failure of services caused by main DNS being unavailable

▶ **March-November 2018**

Partial network inactivity due to bad communication (internet provider problems)

Major problems in 2018



