

# STRUVE GEODETIC ARC 2018



**Coordinating Committee Meeting**  
**St. Petersburg, Russian Federation**  
**12-14 September 2018**

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# Struve Geodetic Arc in Belarus

- 1 center destroyed
- 1 center renovated
- 1 center coincident with the old Polish triangulation
- 6 centers coincident with the State geodetic points
- 10 centers preserved
- 5 out of them are included on the UNESCO World Heritage List



# Main events of the past two years

- Issue the second postal block, dedicated to the "Struve Geodetic Arc".
- Installation of a commemorative plaque on the site of the astronomical Observatory Belin.
- Provide information for updating the Struve Geodetic Arc pages in the EuroGeographics web site and in the wikidot website.
- Publication of the book-album "Belarusian Treasures of UNESCO"



# Postal block "Struve Geodetic Arc"

BELGEODESY

On September 14, 2017 a ceremony was held to extinguish the state signs of postal payment of the Republic of Belarus.



Postal block and the envelope of the First Day



The postal block was announced the winner of the contest-poll for the best postage stamp of 2017.



СОГЛАСОВАНО:

\_\_\_\_\_ (ЗАЯВЛЕНЬСТВО)

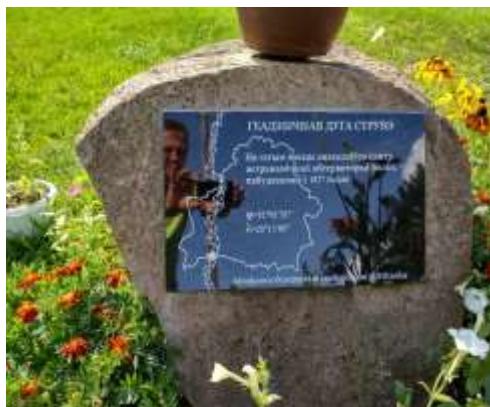
\_\_\_\_\_ (ОБРАЗ)

2017



# Commemorative plaque on the site of the astronomical Observatory Belin

On July 26, 2018 with the participation of enthusiasts, such as surveyors of the Joint Venture "Credo-Dialogue" (Vladimir Rusak, Dmitry Chadovich) and the State Enterprise "Belgeodesy" (Valery Krasutsky) at the initiative of the resident of the village of Belin Vyacheslav Mazur, the teacher of Belin middle school a commemorative plaque on the boulder was installed.



Northern foundation



Eastern foundation

# wikidot website

## Belarus

[Countries](#) » Belarus

### Work for nomination

The first search for the stations was performed in Belarus in **1999**. Unfortunately it turned out to be unsuccessful. None of the Struve Arc points was discovered.

In **2001** the State Committee on Land Resources, Geodesy and Cartography entrusted the State Unitary Enterprise of Space and Aerial Methods of Survey "Belaerocosmogeodesia" to carry out the activities to discover the Struve Arc points in the territory of Belarus for the second time.

Before the exploration, the great work on collection of the information related to the period of measuring of a meridian and its analyses had been done. The program and technology of the station points centers detection was developed.

In the result the place of the point **Konradyn** was established to a precision of 1 meter. Having taken it as the reference point and using the measurements of triangles made by Karl Tennen, it became possible to establish the coordinates in the state geodetic system of all the Struve Arc points.

The main result of the research activities was the detection of the **Asaūnica – Čakuck** baseline centers and making control GNSS measurements on them.

Then, having more accurate information about coordinates (disposition) of the northern and southern Struve Arc points, the geodetic calculations of coordinate precision of the rest of the points were done.

This allowed to determine precise parameters of coordinate conversion, which in its turn allowed defining the position of all the rest of the Arc points with the precision around 10-30 cm.

Having accomplished the mathematical processing of obtained measurements with the method of sequential accurate definitions of coordinates and applying the high precision satellite equipment 19 out of 31 points fixed on the territory of Belarus were discovered in the course of search works.

In **2011** Struve Arc point **Bielin** was founded.

### Current work

At all points of Struve Arc included in the UNESCO world heritage list, monuments of one sample are installed.

In 2006 introduced into circulation commemorative coins of the Struve Geodetic Arc.

In 2007 and 2017 the postage stamps of Struve Geodetic Arc were issued.

Struve Geodetic Arc is included in the national tourist routes.

In 2018 a book on UNESCO world heritage sites in Belarus is being prepared. A separate section in the book is devoted to the Struve Geodetic Arc.

### Results





# The book-album "Belarusian Treasures of UNESCO"

*Dear friends!*

We are glad to present you with the next book-album from the series "Belarusian Cultural Heritage". "Belarusian Treasures of UNESCO" is the fourth book-album prepared by the Development Bank of the Republic of Belarus in cooperation with the well-known Belarusian publishing house "Four Quarters". The book-album which you are holding in your hands will tell you about the Belarusian treasures included in the UNESCO World Heritage List.

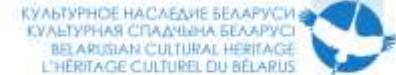
Currently, it includes four objects located on Belarusian land: Belovezhskaya Pushcha National Park, Mir Castle Complex, the Struve Geodetic Arc, and the Architectural, Residential and Cultural Complex of the Radziwiłł Family at Nesvizh. Having united them under the same cover of the publication "Belarusian Treasures of UNESCO" for the first time, we want to acquaint you with the unique treasures that belong not only to Belarus but to the whole world.

I am sure that the new book-album will also take a worthy place in the collections of experts and admirers of Belarusian culture. It will be a wonderful gift to business partners, diplomatic missions, and guests of our country.

**S.N. Roumas,**  
Chairman of the Management Board (2012-2018),  
JSC "Development Bank of the Republic of Belarus"



**S.N. Roumas,  
Prime Minister  
of the Republic of Belarus**



*Белорусские  
СОКРОВИЩА  
ЮНЕСКО*

Беларускі скарбы ЮНЕСКА  
Belarusian Treasures of UNESCO  
Trésors belarusse de l'UNESCO



# The book-album "Belarusian Treasures of UNESCO"

*Dear readers!*

*Preservation of the national cultural and natural heritage is a very important area of cooperation between Belarus and UNESCO.*

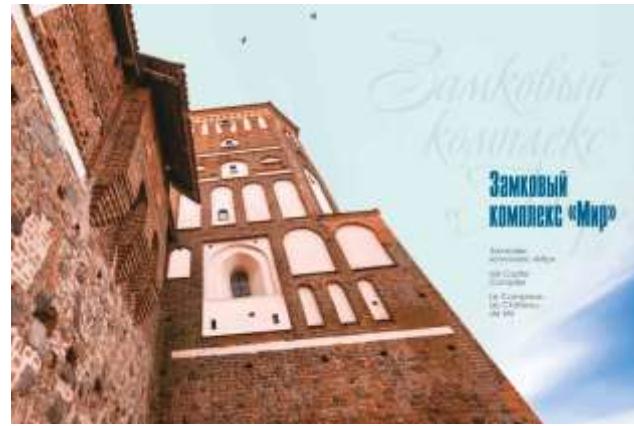
*We are rightfully proud that on the territory of Belarus there are four UNESCO World Heritage Sites. Belopezhskaya Pushcha National Park is a visiting card of the uniqueness of Belarusian nature. **The Struve Geodetic Arc is an outstanding monument to the achievements of Geodetic Science.** The Mir Castle complex and Architectural, Residential and Cultural Complex of the Radziwiłł Family at Nesvizh are the pearls of Belarusian medieval architecture. They are majestic witnesses of the rich history of Belarus and neighbouring European countries. These objects are a significant contribution of our country to the world's treasury.*

*The Government of Belarus seeks to make effective use of UNESCO National Heritage Sites for tourism, educational, and scientific purposes, and to promote the economic and social development of the regions in which they are located.*

*I am convinced that the book-album "Belarusian Treasures of UNESCO" will open new aspects of the rich cultural and natural heritage of Belarus to you, will contribute to the expansion of interest in it and to the development of cooperation for its preservation and enhancement.*

**V. V. Makei,**  
*Minister of Foreign Affairs, Chairman of the National  
Commission of the Republic of Belarus to UNESCO*





Many thanks for your attention!  
We are always glad to see you in Belarus!

