

Organisational Aspects Supporting the Work of Coordinating Committee of SGA

Saulius Urbanas, EuroGeographics

8th Coordinating Committee of Struve Geodetic Arc
St. Petersburg, 13th September 2018

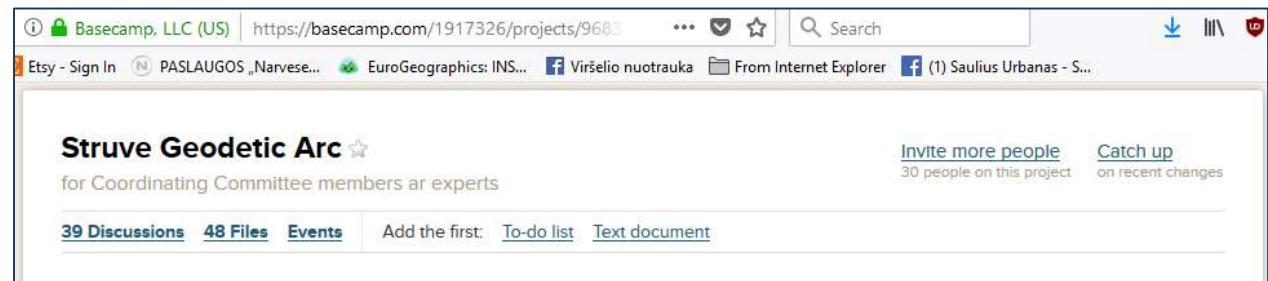


International Management Mechanism

- Rules of procedures, adopted in Oshmyany at 2012
- Activities of Coordinating Committee toward SGA:
 - Maintain preservation
 - Follow the status of conservation
 - Provide recommendations for improving practices
 - Promote...
- Composition of Coordinating Committee:
 - Each State party nominates its primary representative – 10 NMCAs
 - Meeting frequency – 2 years
 - Decisions are reflected in Resolutions. Decisions are taken unanimously, adopted by majority of members
 - CC elects Chair for two years period. Chair represents CC, organizes the meeting
 - CC can meet on demand or take decisions by electronical means

EuroGeographics contribution to SGA

- Resource of Secretary General
- Basecamp of SGA
- SGA pages at EuroGeographics website

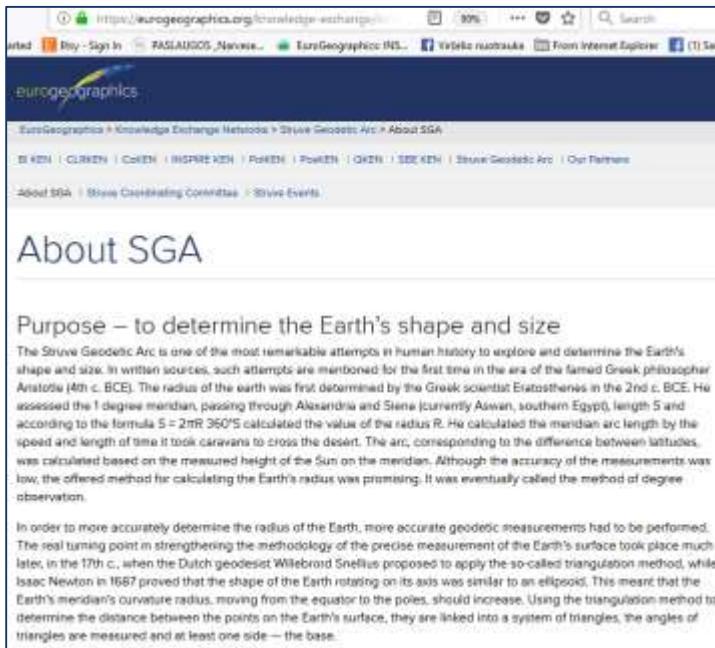


Struve Geodetic Arc

for Coordinating Committee members ar experts

39 Discussions 48 Files Events Add the first: To-do list Text document

Invite more people 30 people on this project Catch up on recent changes

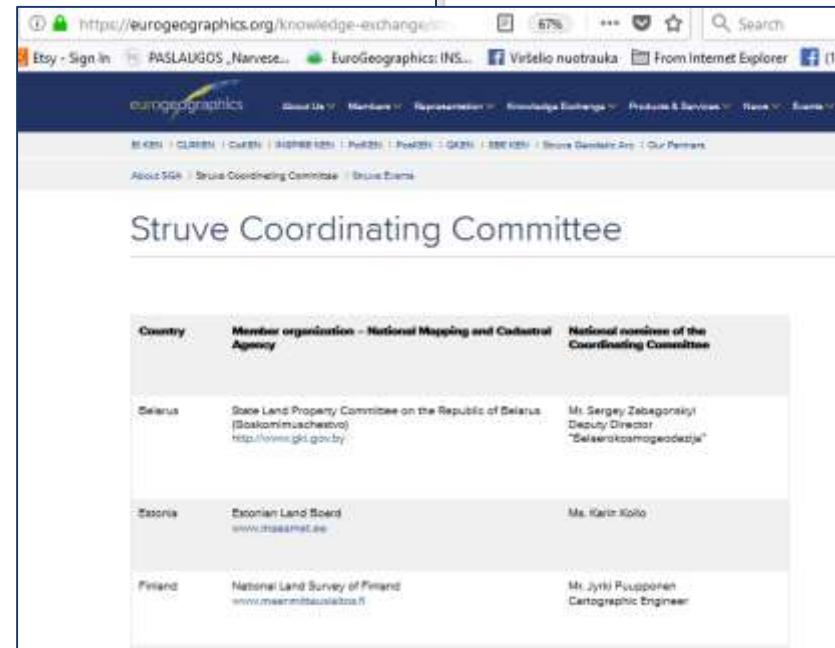


About SGA

Purpose – to determine the Earth's shape and size

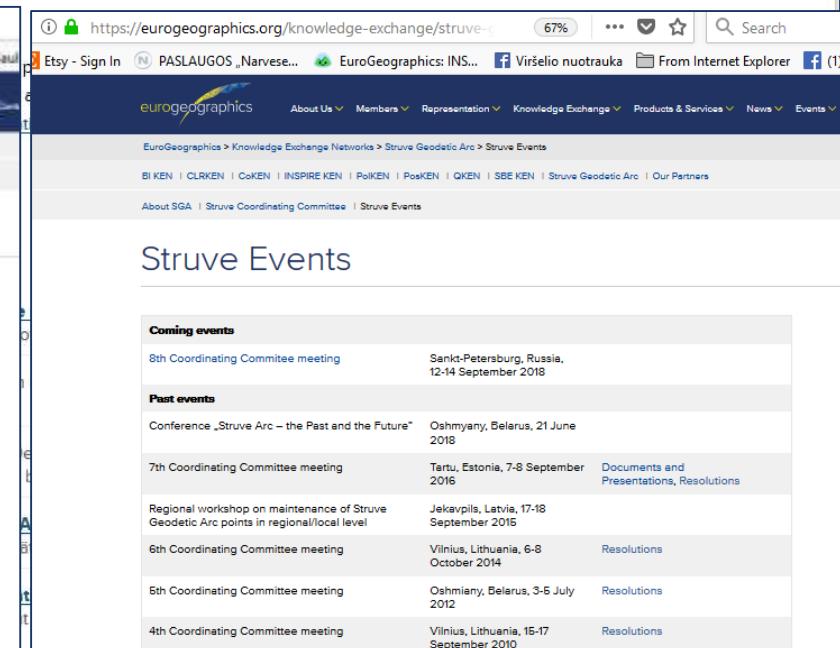
The Struve Geodetic Arc is one of the most remarkable attempts in human history to explore and determine the Earth's shape and size. In written sources, such attempts are mentioned for the first time in the era of the famed Greek philosopher Aristotle (4th c. BCE). The radius of the Earth was first determined by the Greek scientist Eratosthenes in the 2nd c. BCE. He assessed the 1 degree meridian, passing through Alexandria and Siene (currently Aswan, southern Egypt), length 5 and according to the formula $5 = 2\pi \cdot 360/5$ calculated the value of the radius R. He calculated the meridian arc length by the speed and length of time it took caravans to cross the desert. The arc, corresponding to the difference between latitudes, was calculated based on the measured height of the Sun on the meridian. Although the accuracy of the measurements was low, the offered method for calculating the Earth's radius was promising. It was eventually called the method of degree observation.

In order to more accurately determine the radius of the Earth, more accurate geodetic measurements had to be performed. The real turning point in strengthening the methodology of the precise measurement of the Earth's surface took place much later, in the 17th c., when the Dutch geodesist Whitehead Snellius proposed to apply the so-called triangulation method, while Isaac Newton in 1687 proved that the shape of the Earth rotating on its axis was similar to an ellipsoid. This meant that the Earth's meridian's curvative radius, moving from the equator to the poles, should increase. Using the triangulation method to determine the distance between the points on the Earth's surface, they are linked into a system of triangles, the angles of triangles are measured and at least one side – the base.



Struve Coordinating Committee

Country	Member organization – National Mapping and Cadastral Agency	National nominee of the Coordinating Committee
Belarus	State Land Property Committee on the Republic of Belarus (Белкамимущества) http://www.gkl.gov.by	Mr. Sergey Zabagorskiy Deputy Director "Belserokosmogeodezija"
Estonia	Estonian Land Board www.tasamet.ee	Mr. Karin Kollo
Finland	National Land Survey of Finland www.maaennustuslaitos.fi	Mr. Jyrki Puupponen Cartographic Engineer



Struve Events

Coming events

- 8th Coordinating Committee meeting Sankt-Petersburg, Russia, 12-14 September 2018

Past events

- Conference „Struve Arc – the Past and the Future“ Oshmyany, Belarus, 21 June 2018
- 7th Coordinating Committee meeting Turu, Estonia, 7-8 September 2016 Documents and Presentations, Resolutions
- Regional workshop on maintenance of Struve Geodetic Arc points in regional/local level Jekavpils, Latvia, 17-18 September 2015
- 6th Coordinating Committee meeting Vilnius, Lithuania, 6-8 October 2014 Resolutions
- 5th Coordinating Committee meeting Oshmyany, Belarus, 3-5 July 2012 Resolutions
- 4th Coordinating Committee meeting Vilnius, Lithuania, 15-17 September 2010 Resolutions

Work with UNESCO bodies

- Collaboration with National UNESCO Commissions
 - National / international events
 - Bilateral support:
 - CC for technical matters
 - UNESCO Commissions for reaching a wider audience, communication to WHC and public
 - Recommendations and resolutions of WH meetings
 - Channel to UNESCO experts / events
- Responsibilities
 - Maintenance of Outstanding Universal Value (OUV)
 - 7 years periodic reporting
 - Latest report at 2014, arranged by SG and submitted by the Ministry of Agriculture of Lithuania
 - Upcoming report - 2021

Documentation in the SGA pages at WHC website

Struve Geodetic Arc

Description Maps Documents **Documents** Gallery Indicators Assistance

Nomination 1187 (inscribed)

2005	Nomination file 1187 (21 MB)
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Advisory Bodies Evaluations

2005	Advisory Body Evaluation (ICOMOS)
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Maps

2005	Struve Geodetic Arc - map of inscribed property
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Decisions

2014	38COM 8E - Adoption of Retrospective Statements of Outstanding Universal Value
2005	29COM 8B.35 - Nominations of Cultural Properties to the World Heritage List (the Struve Geodetic Arc)

Periodic Reporting

2014	Periodic Reporting Cycle 2, Section II
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(In)Compliance between SGA websites and the SGA pages at WHC website

Screenshot of the eurogeographics.org website showing the 'Struve Events' page. The page lists past and coming events, including the 8th Coordinating Committee meeting in Sankt-Petersburg, Russia, on 12-14 September 2018.

Coming events

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instruments and other materials, and even minting commemorative coins for the Struve Geodetic Arc (Belarus, Moldova).

News (2)

- Published: Our Common Heritage: the Finnish National World Heritage Strategy 2015 – 2025 Tuesday, 3 November 2015
- Mostar, Macao and Biblical vestiges in Israel are among the 17 cultural sites inscribed on UNESCO's World Heritage List Friday, 15 July 2005

Events (3)

- Final Periodic Reporting Meeting in Europe 01-Dec-2014-02-Dec-2014
- [in French only] Lituanie dans un colis : Exposition thématique 30-Sep-2013-04-Oct-2013
- 30th Ordinary Session of the World Heritage Committee 08-Jul-2006-16-Jul-2006

Links

- Struve Geodetic Arc
- Portal to the Heritage of Astronomy

Actions and channels to public

- Please pass any news about SGA developments (events, books, collectables, projects, etc) to:
 - Secretary General
 - Chair
 - Basecamp
- Share best practice in national achievements / debates
- Communicate in advance on the shared activities – workshops, studies, documentation (Management Plan...)
- Two main channels for Coordinating Committee:
 - [SGA pages at EuroGeographics website](#)
 - [struvearc.wikidot.com](#)
 - We shall find a suitable tool for sharing photos (!)
- EuroGeographics offers a possibility to organize online events – web-meetings, webinars. Any ideas?

Goodwill in collaborative efforts

- All CC events are open to national and international experts, representatives of governmental and non-governmental organisations and individuals
- We're here because we like to be here ☺
- **... and a future is in some extend a bit forgotten past...**

