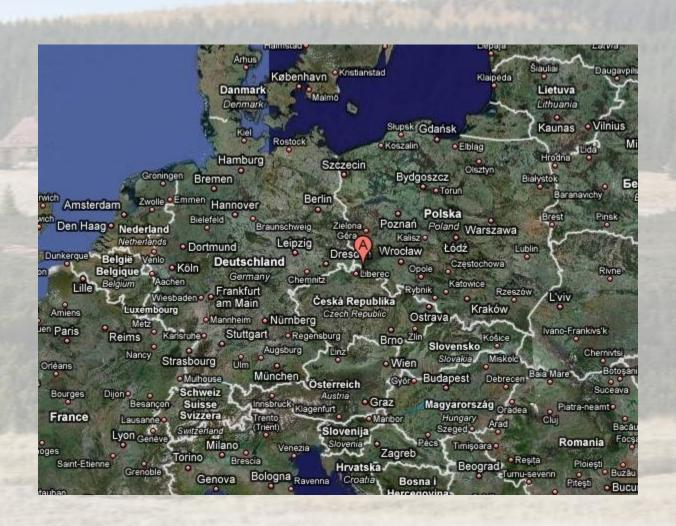
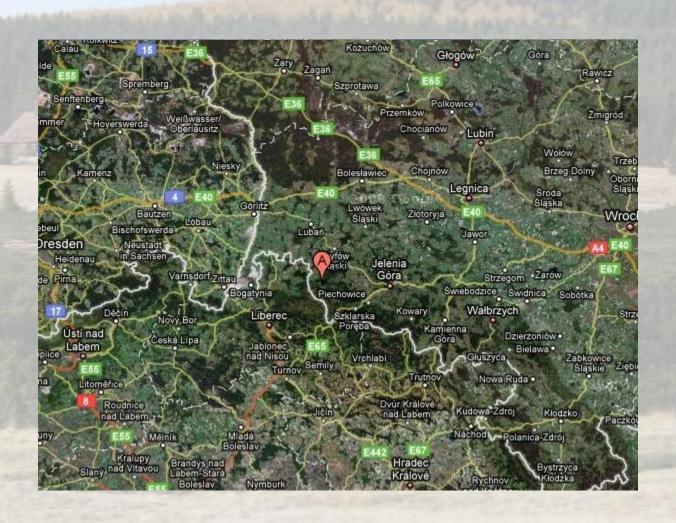


The Izera Mountains



In the middle of Europe

The Izera Mountains



approx. 100 km from Wrocław

The Izera Mountains

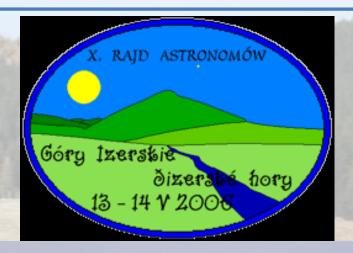


Izera Mountains, Izera Valley

The Izera Mountains and astronomers

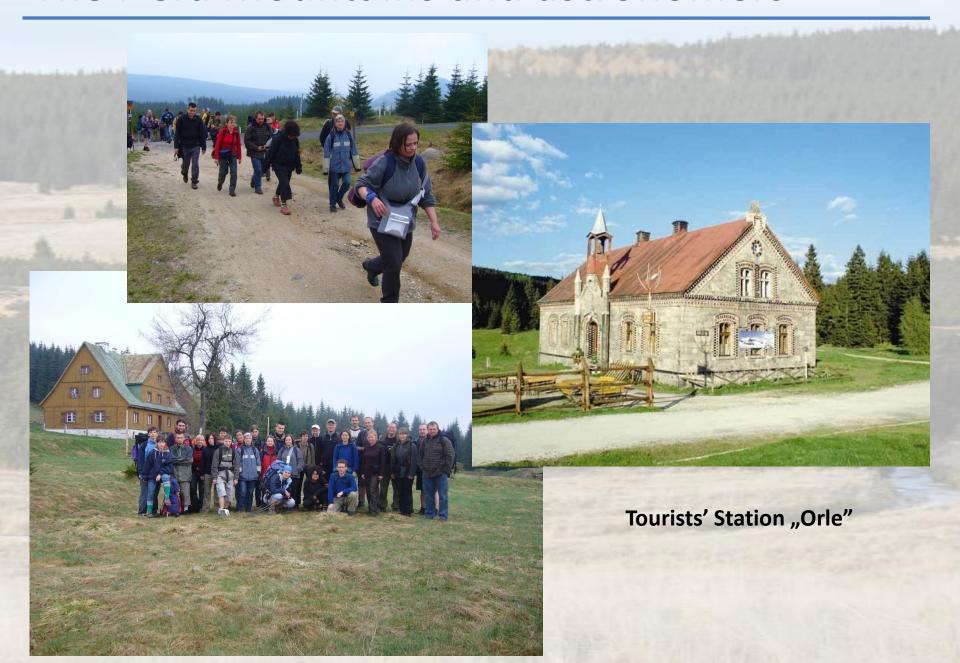
13-14 X 2001 – first Astromer's hike 13-14 V 2006 – 10th (the Izera Mountains)







The Izera Mountains and astronomers



The Izera Mountains and astronomers

22-24 IX 2006 – first OSA (all-Poland Astronomical Meeting) – Zieleniec

2nd and 3rd edition – the Izera Mountains









The idea



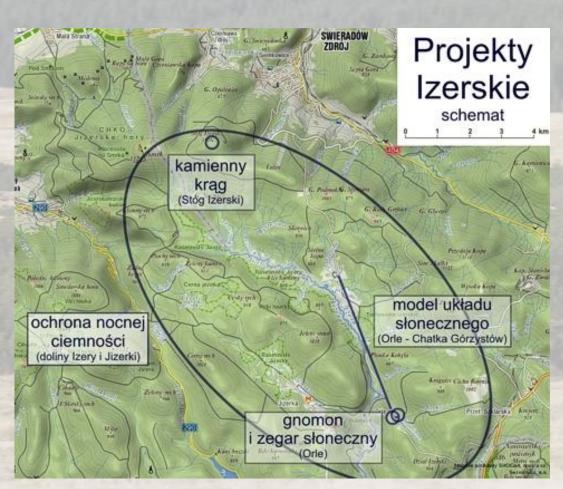
2nd edition of OSA – long evening with beer – the idea of School Workshop on Astronomy (SWA) was born





One month later – 1st edition of SWA – long evening with beer – the idea of Izera Projects was born

The Izera Projects: overview



Primary goals:

- -Darkness conservation area Izera Mountains
- -gnomon and sundial tourist station ORLE
- -scaled model of the Solar System -stone circle Stóg Izerski summit

Independent activities

- School Workshop on Astronomy
 (SWA, three editions) XVII LO,
 Astronomical Institute
- all-Poland Astronomical Meeting
 (OSA, three editions) teleskopy.net,
 PTMA Gliwice, Astronomical Institute



5th Nov 2007

From Orle Station to Chatka Górzystów

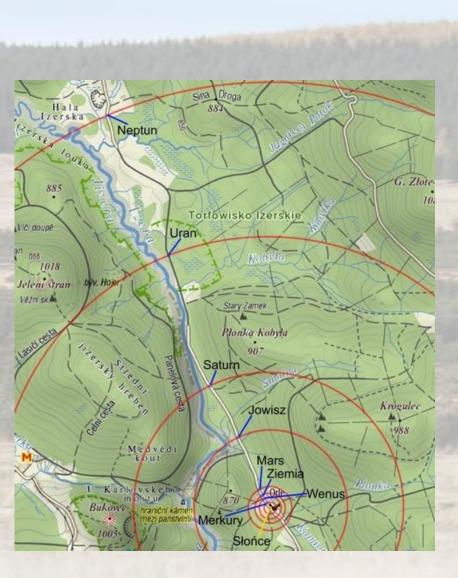
Scale 1:1000000000

approx. length 4.5 km

planets from 0.5 cm to 14 cm





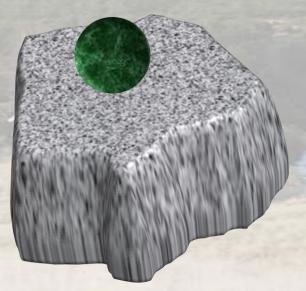






8 stone pillars/irregular stones balls representing planets in scale balls will have a colour representing a colour of a planet





Uranus – made of copper (green patina)



Stone selection

Szklarska Poręba Promotion Bureau



Stone circle



Panorama view of the Stóg Izerski summit



8 pillars (approx. 2 m high)
20 meters in diameter

inside - the analemmatic sundial (the dial will be made of flat stones lying on the ground)

Analemmatic sundial

Stone circle



7 stones will be placed using a crane

The last one we will put with our hands...



Stone circle



The thickness of a soil is 20 cm only

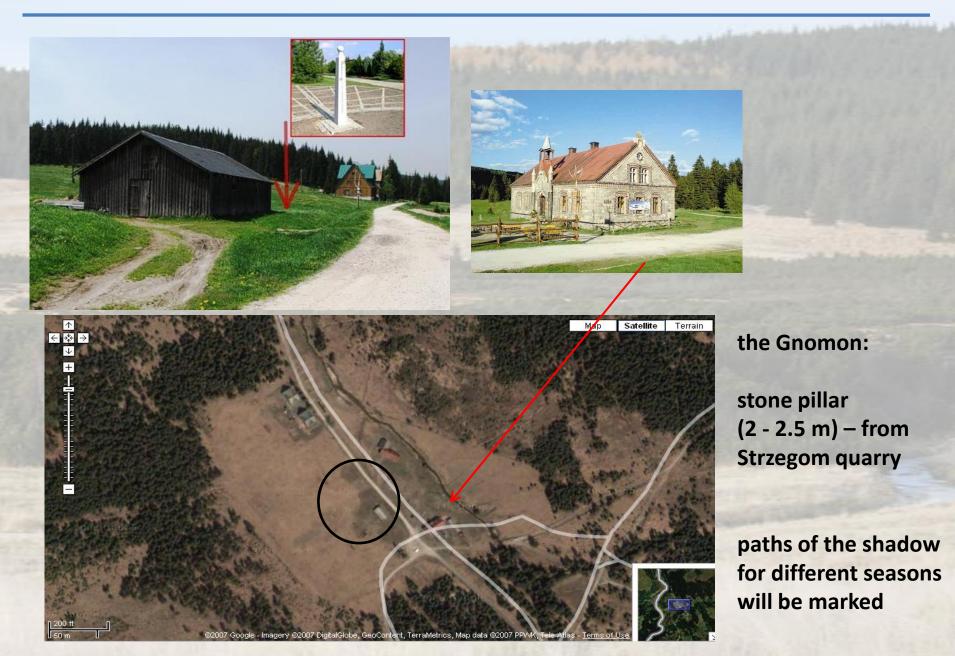
It is to low for proper mount the stones (1.5 – 2 tons)

For this reason stones will have shapes resembling cones (for stability)



2nd SWA – thickness measurements

Gnomon and sundial



Gnomon and sundial

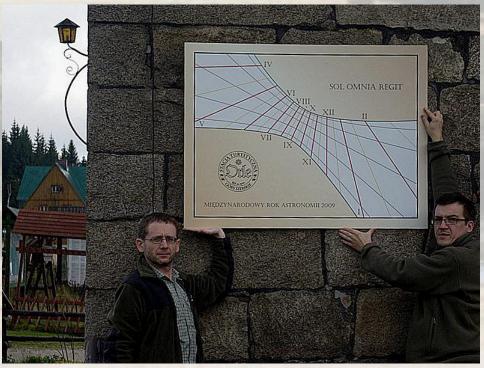


the Sundial:

vertical, granite dials, iron hands

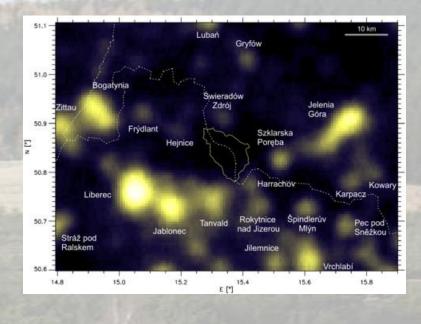
due to the orientation of the building two sundials have to be placed on the neighbouring walls

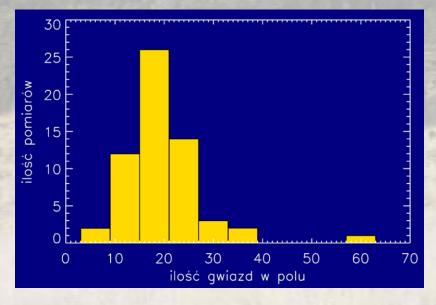
A model is ready we are waiting for final (made of granite) version of dials



Darkness conservation area



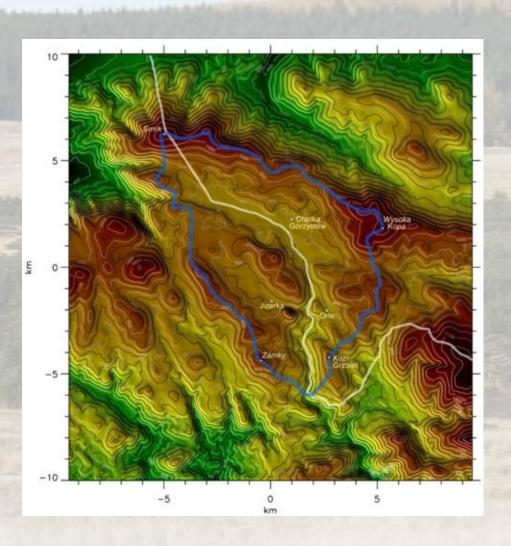




A sky in the Izera Mountains is 40 times darker than in Wrocław

approx. 800 stars (measurements made by pupils from 17th Secondary School in Wrocław

Darkness conservation area



70 km² covering the central part of Izera Mountains

the first (or second) in Europe

Polish-Czech collaboration

march 21st – Świeradów Zdrój, meeting with local authorities

People



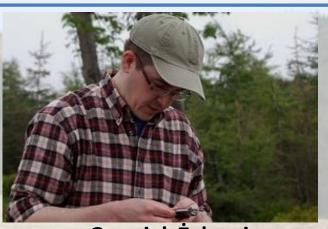
Sylwek Kołomański



Tomek Mrozek



Zbyszek Kamiński



Grzesiek Żakowicz



Stach Kornafel

Barbara Cader-Sroka Tomek Czarnecki Paweł Preś Michał Tomczak

Future





English version of Izera Projects webpage The sundial in Orle (first half of 2009) The gnomon and educational track (2009) Darkness preservation area (march 2009) Stone circle (summer solstice 2010)