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CMEP

World heritage of the Danubian region and its connection to climate change through centuries

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Novi Sad, Serbia



Skills I do not have for this story

- Enough broad knowledge
- To avoid the prejudice in some points
- A distance regarding some historical events
- To expose the story comprehensively enough

(All these skills are for professionals)

However, I have

- Knowledge near to be acceptable
- Passion for the story
- Skill to expose the story on a expressive way
- A strong feeling of wanting to tell the clear story

(All these skills are for amateurs)



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Water

Climate

Civilisation

on regional
or global level

People

Other
civilisations

Potential to
survive



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Germanic people



GERMANY

Regensburg



Linz

AUSTRIA



Bratislava

SLOVAKIA



Budapest

HUNGARY

Slavic people



UKRAINE



MOLDOVA



Romanian people



ROMANIA



CROATIA



Vukovar

Novi Sad

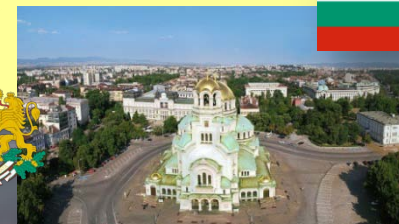
Belgrade

SERBIA

Slavic people



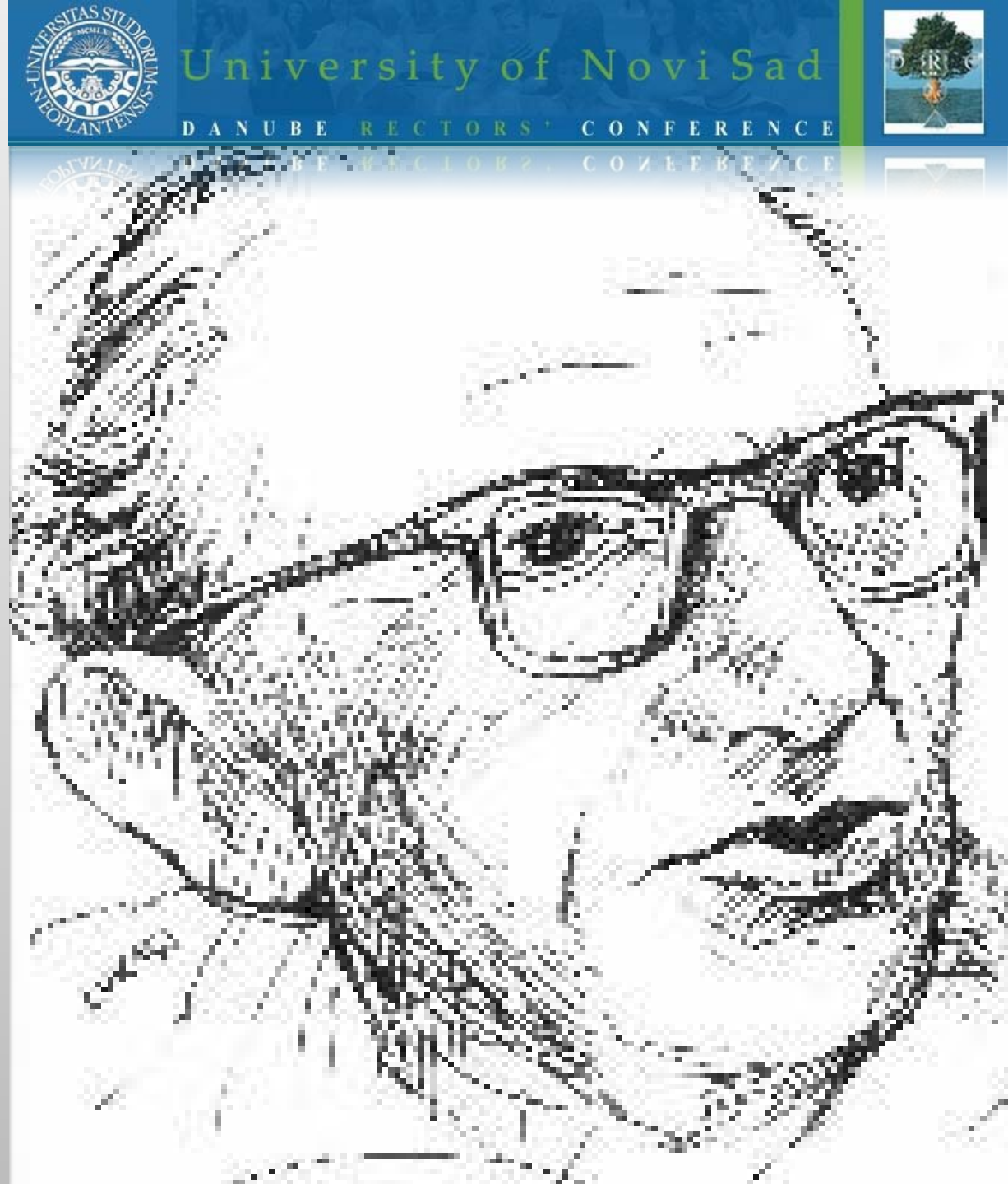
BULGARIA



György Lukács
(1885 - 1971)

Tradition

"In the past
in the present
in the future ..."
Only tradition



The Snow Lady Church (1881)



Whether this church was a messenger of

- 1) today's Europe
- 2) religious and tolerance of any kind in this region
- 3) close ties of heritage and climate change



LEGEND or NOT

"The legend is a reality that will come" (D.T. Mihailović)

HERETIGE

Chatolic church - masque (1526)

Mosque - chatolic church
with **altar** for chatolic, protestant
and ortodox **ceremony** (1881)



HISTORIC EVENT

Waradin war (August 5, 1716):
Austrian Kingdom vs Turkish Empire
(The Duke Eugen Savoy)
Place: Tekija (in arabic: Place for rest)

WEATHER EVENT (CLIMATE CHANGE)

Snow storm and
temperature below
zero in August 5.

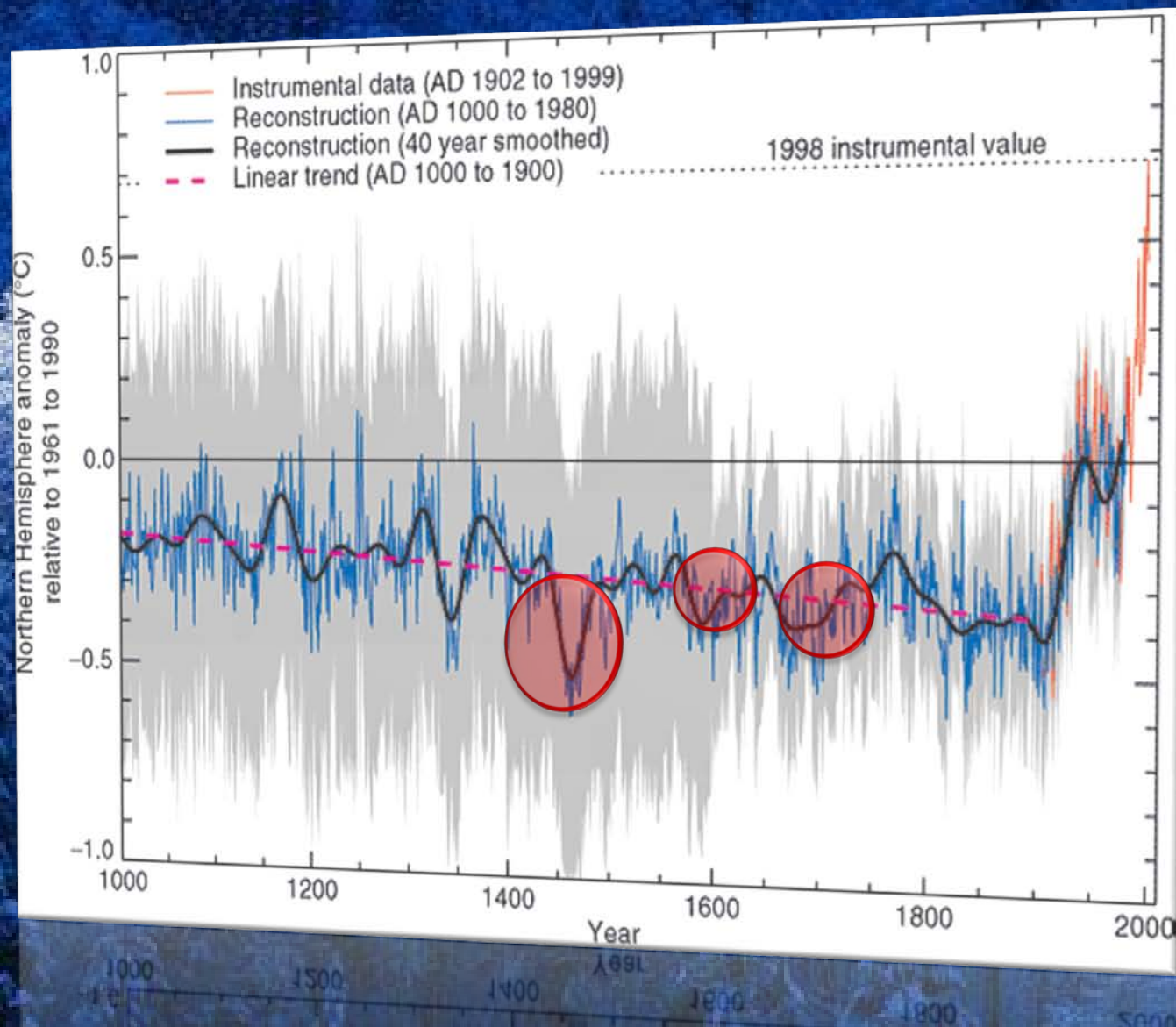
Turkish soldiers
were frozen and they
undestood that as
a "Sign from the God"

CONSEQUENCES

Eugen Savoy took an
advantage so after that
Turkish military forces
never crossed
the Danube



Reconstructions
of the climate
through centuries
that include
Danubian region.

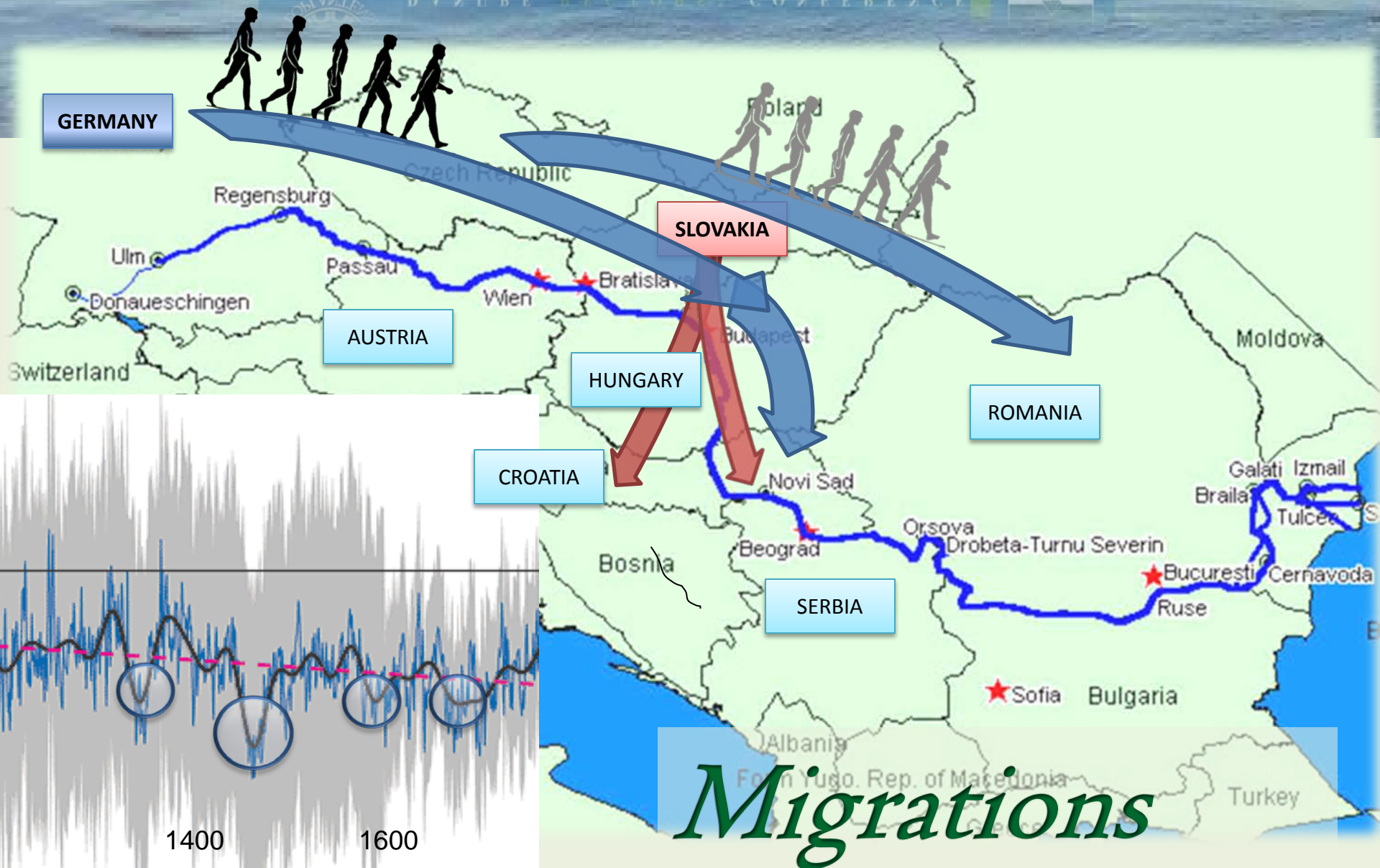




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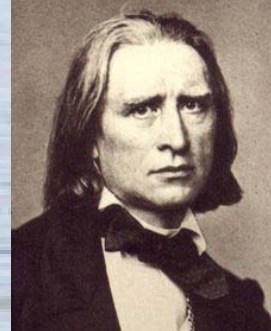
ARCHITECTURE



Johann Sebastian Bach,
(1685 -1750)



Wolfgang Amadeus Mozart
(1756 -1791)



Franz Liszt
(1811 -1886)



Sergei Sergeyevich Prokofiev
(1891 -1953)



UKRAINE



MOLDOVA

CULTURE (music)



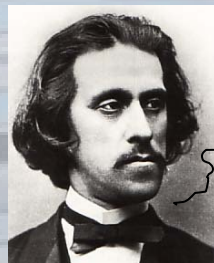
ROMANIA



BULGARIA



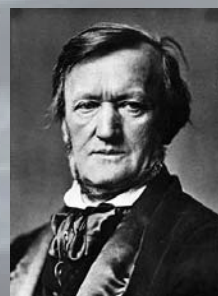
Ludwig van Beethoven
(1712-1773)



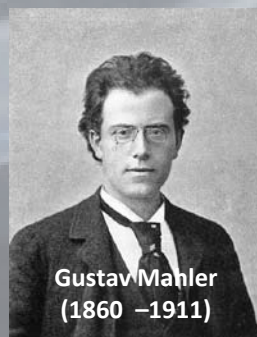
Josef Strauss
(1827 - 1870)



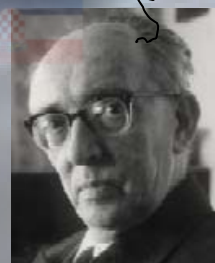
Bartók Béla
(1881-1945)



Wilhelm Richard Wagner
(1813 -1883)



Gustav Mahler
(1860 -1911)



Jakov Gotovac
(1895 - 1982)



Stevan Stojanović Mokranjac
(1856 - 1914)





EDUCATION

Universities from Danubian countries
in the world top 500
(among 6000)

- Germany, 46
- Austria, 6
- Hungary, 3
- Serbia, 1.

University of Novi Sad is one
800 place on that list



8th in Europe
Universität Wien



16th in Europe
Freie Universität Berlin

Number of Nobel Prize winners in the Danube region.

Austria

Sciences	18	Peace and Literature	3
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Germany

Sciences	85	Peace and Literature	18
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Slovakia

Sciences	1	Peace and Literature	-
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Hungary

Sciences	8	Peace and Literature	2
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Former Yugoslav countries

Sciences	2	Peace and Literature	1
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Romania

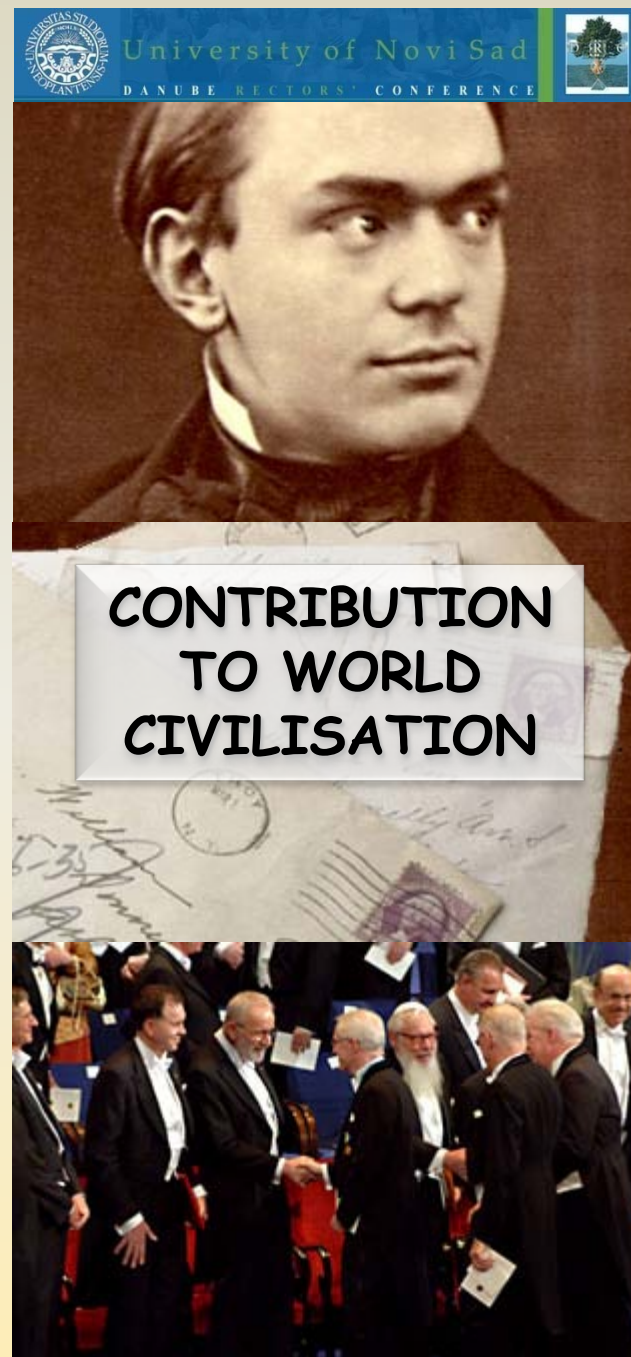
Sciences	1	Peace and Literature	1
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Ukraine

Sciences	3	Peace and Literature	-
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IN DANUBIAN REGION

Sciences	118	Peace and Literature	25
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Present time

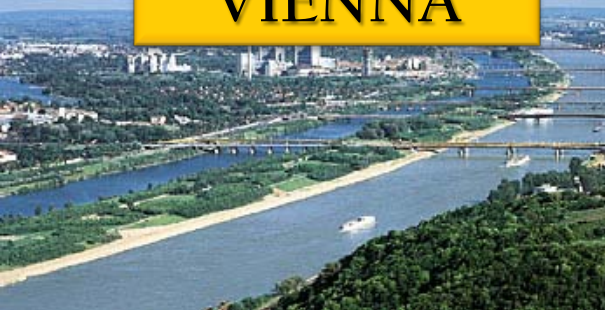


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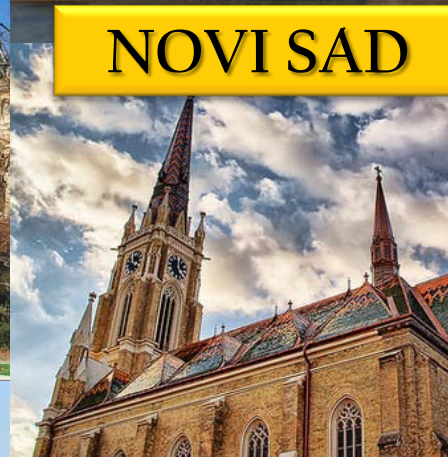
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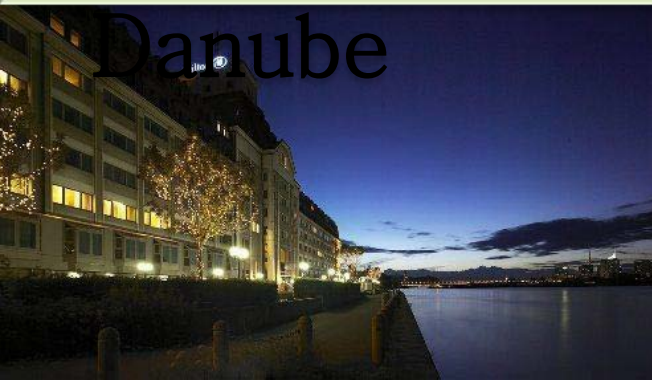
VIENNA



NOVI SAD



King of the
Danube



Queen of the Danube



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CENTER FOR METEOROLOGY AND
ENVIRONMENTAL PREDICTIONS



DEPARTMENT OF PHYSICS,
FACULTY OF SCIENCES,
UNIVERSITY OF NOVI SAD,
SERBIA

ECHAM global integration



REGIONAL
non-hydrostatic model

72 - Processor PC cluster

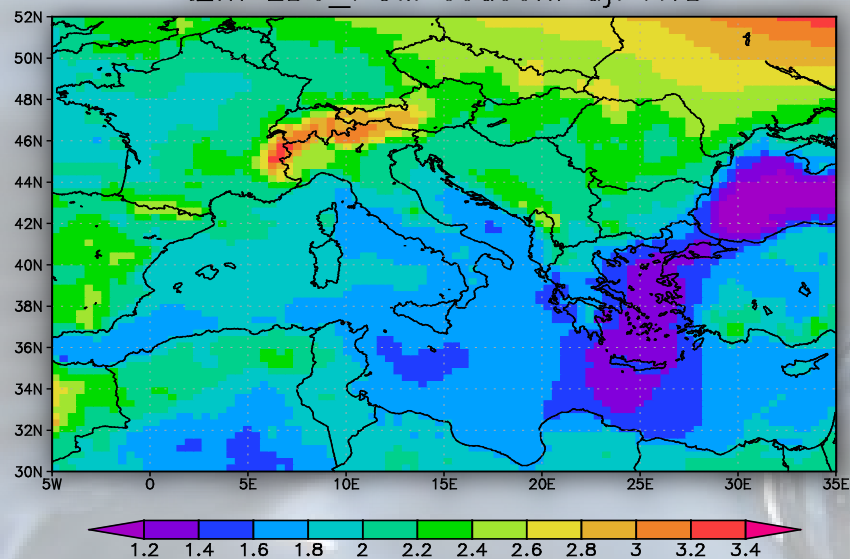


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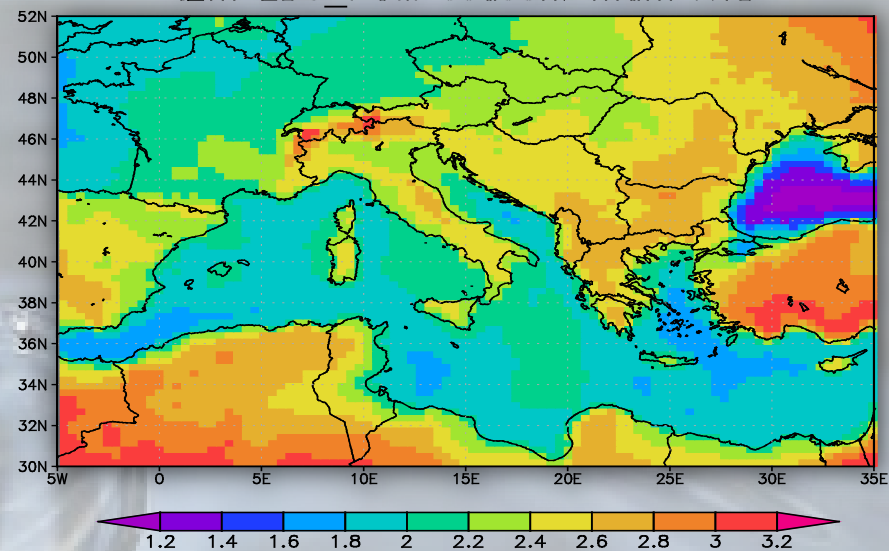
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DUNAV REKTORA KONFERENCIJA



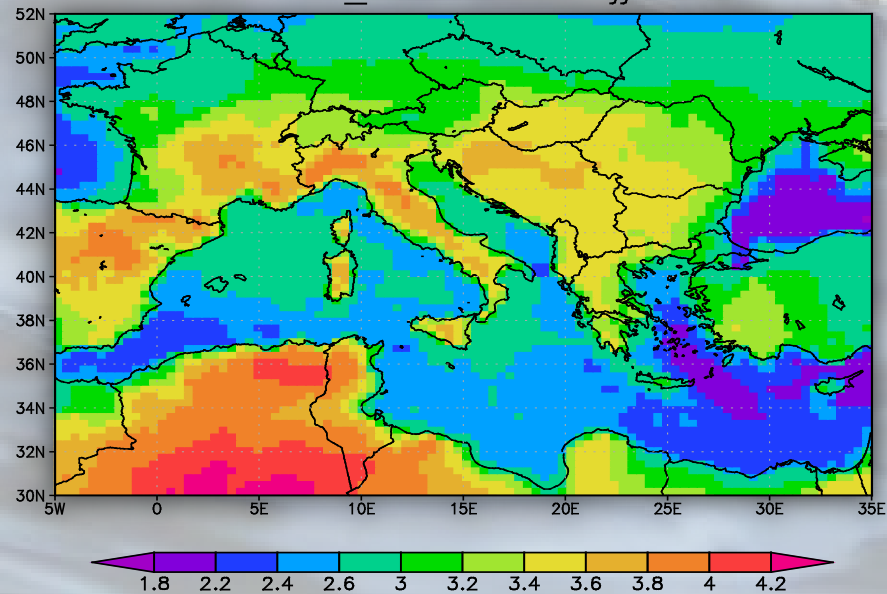
t2m EBU_POM season: djf A1B



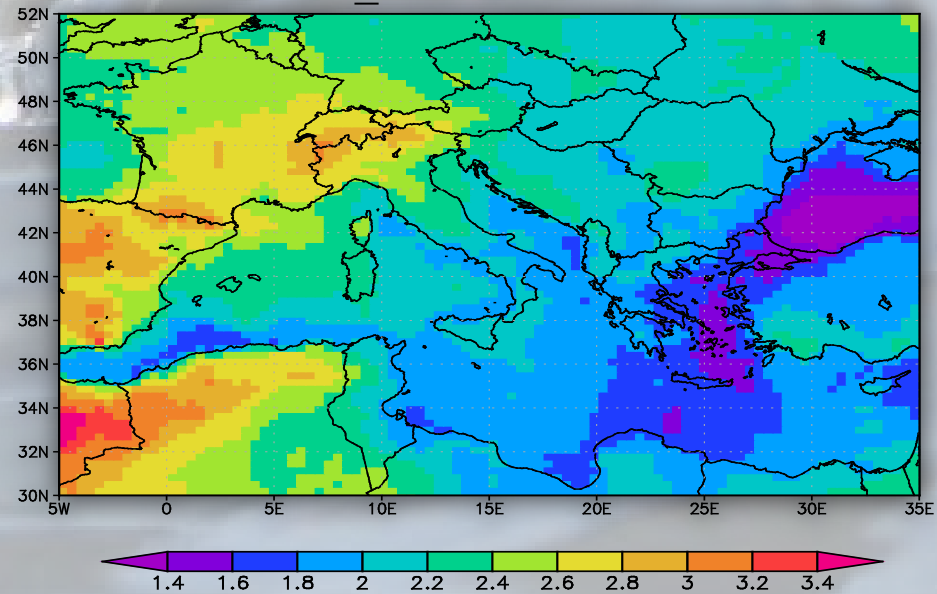
t2m EBU_POM season: mam A1B



t2m EBU_POM season: jja A1B



t2m EBU_POM season: son A1B



Temperature increase by the seasons (1961-1990)+++ (2001-2030)

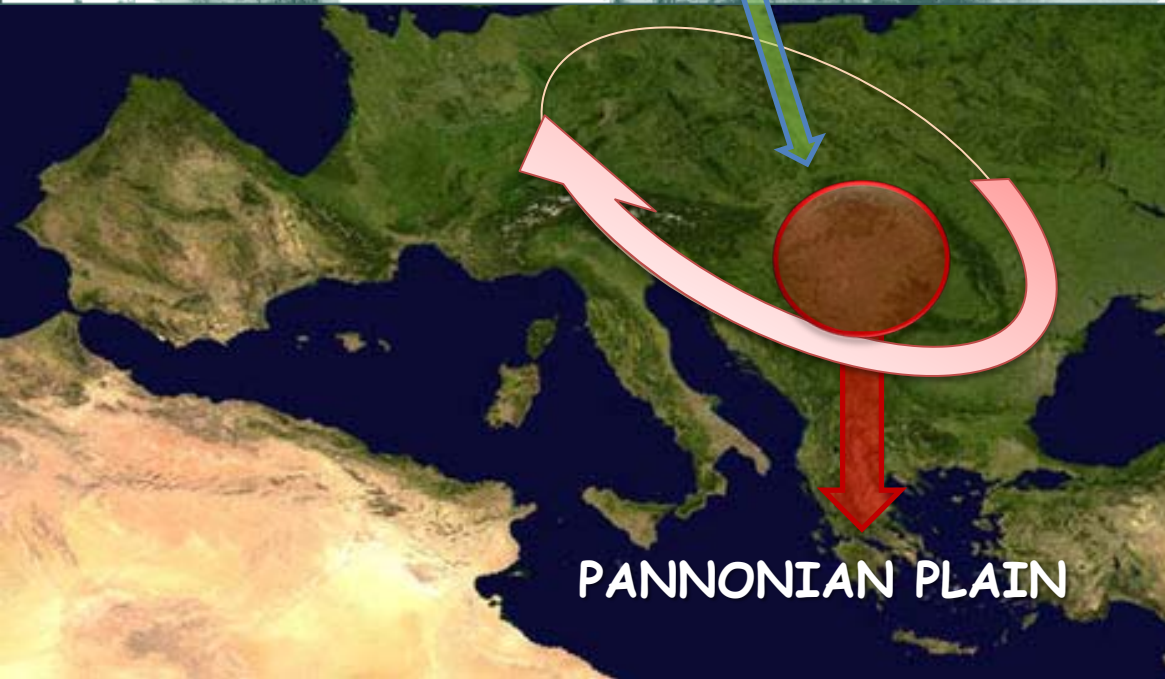
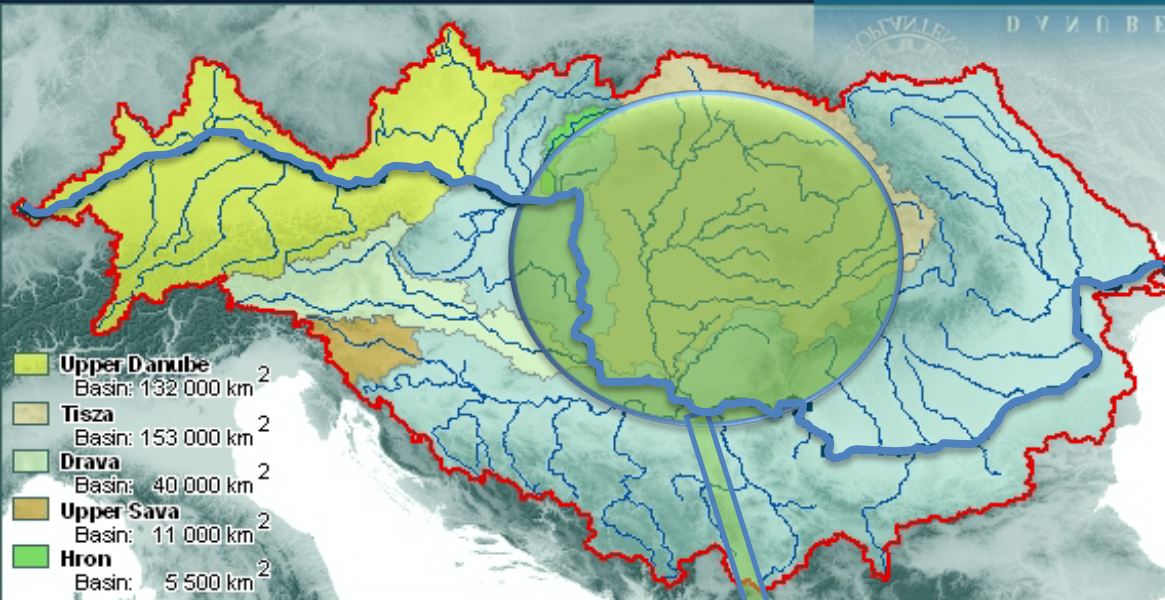
AGRICULTURE



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PANNONIAN PLAIN

This region is since 14th century as agricultural area that supplied other parts of Europe with the food until this time.

ORGANIZATION STRUCTURE of ADAGIO

COORDINATOR
BOKU
Austria

REGIONAL GROUPS

Central Europe
Group leader
BOKU
Austria

Eastern Europe
Group leader
NIMH
Bulgaria

Meditarean area
Group leader
ITACyL
Spain

BOKU (Austria)

MZLU (Czech Republic)

ACAUP (Poland)

NIMH-BAS (Bulgaria)

CMEP-FSUNS
(Serbia and Montenegro)

SHI (Russia)

TIAMASG (Romania)

ITACyL (Spain)

CRA-ISA (Italy)

IERSD (Greece)

CLAC (Egypt)



FP6 project

This region is seen as the area where climate change impact on agriculture will be **strongly pronounced**.

This area is also detected as the area with a high level of vulnerability in agriculture.

FP7 project PROADAPT
FP7 project PROPER

This storry is devoted to

Ljubiša Nedeljković,
physisist from Belgrade
(passed away in 2006)
who carefully was
listening my dreams

Mihailo Luković,
the best friend of mine,
from Čačak with whom I
have been writting down
all our dreams since 1970

All pieceful pieople from my university who,
in academic silence, contribute to its tradition



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