

Geographic imbalance in Earth and Planetary sciences within Europe

East vs. West – historical division (see Matenco, EGU 2019-12478)

Conference participation statistics are presented:

- IUGG (International Union of Geodesy and Geophysics)
- EGU2019 atmospheric sciences session
- EPSC (European Planetary Science Congress)
- ESPM (European Solar Physics Meeting)

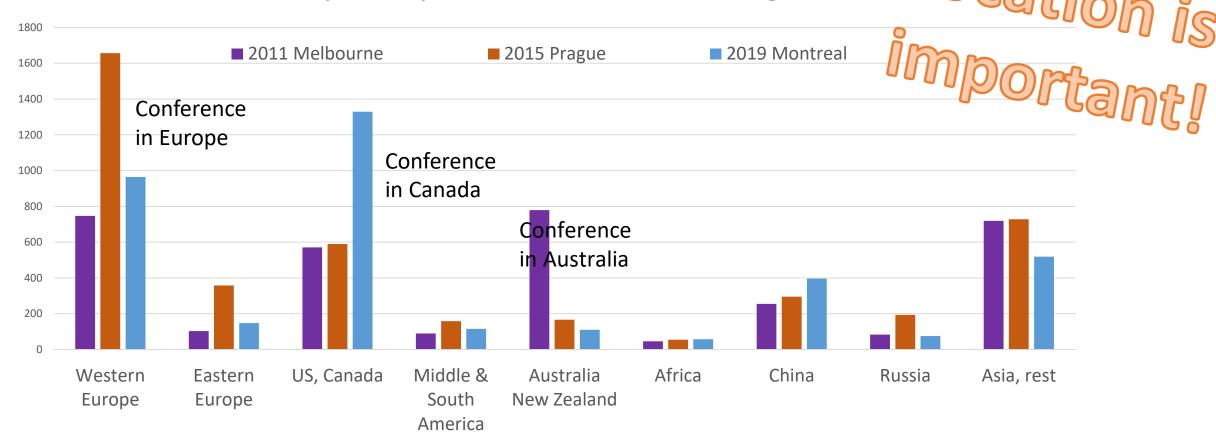


# Global participation rates IUGG 2011, 2015 & 2019

Participation from the different regions at the last 3 IUGG meetings. The 3 meetings were held on different continents. Each time the "local scientists" have the highest participation rates.



Nr of participants from different regions



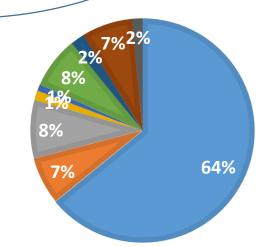
#### Eastern vs. Western European participation rates: EGU

EGU participation of the last 3 years shows a similar trend:

- vast majority (above 70%) from Europe
- The division between Eastern and Western Europe is 6-8 % versus 64-67%
- If normalised to the number of authors in these regions, the number of Western participants should be 4 times the number of Eastern European partcipants. (e.g. 15% 60%)

7%<sup>2%</sup>
6%
1%
9%
64%

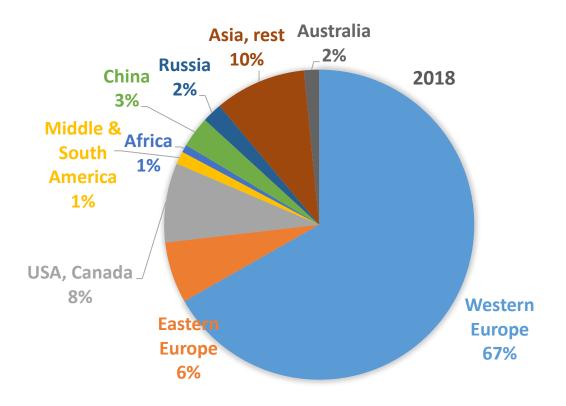
2017



If normalised to the number of authors per country, ideally:

Western participants ~ 4\* Eastern Participants

(see Matenco et al, 2019.)



EGU over the last years: 6-8 % vs 64-67%

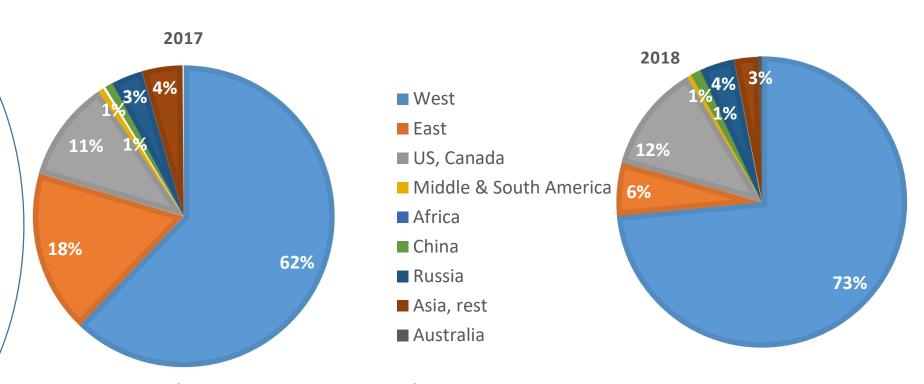
### Eastern vs. Western European participation rates: EPSC

If normalised to the number of authors per country, ideally: Western participants ~ 4\* Eastern Participants (see Matenco et al, 2019.)

The planetary science congress held in Eastern Europe attracted a large number of Eastern Europeans!

This will be our first success story to analyse in detail.

SUCCESS STORY Nr1



EPSC Riga (Eastern Europe)
18% (!)

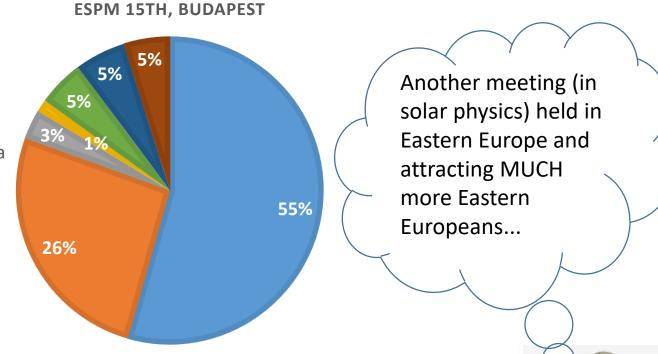
EPSC Berlin 6%

#### Eastern vs. Western European participation rates: ESPM

If normalised to the number of authors per country, ideally: Western participants ~ 4\* Eastern Participants (see Matenco et al, 2019.)



ESPM Dublin **7 vs 75** %



ESPM Budapest 26 (!) vs 55%

**SUCCESS STORY Nr2** 

Are they really success stories???
Is "Participation" the most imporant factor?

Let's have a closer look on what "participation" can mean..

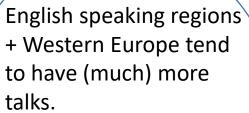
- e.g.1. IUGG 2015 Prague
- e.g.2. EGU 2019 Vienna (Session AS)
- e.g.3. EPSC 2017 Riga
- e.g.5. ESPM, Budapest



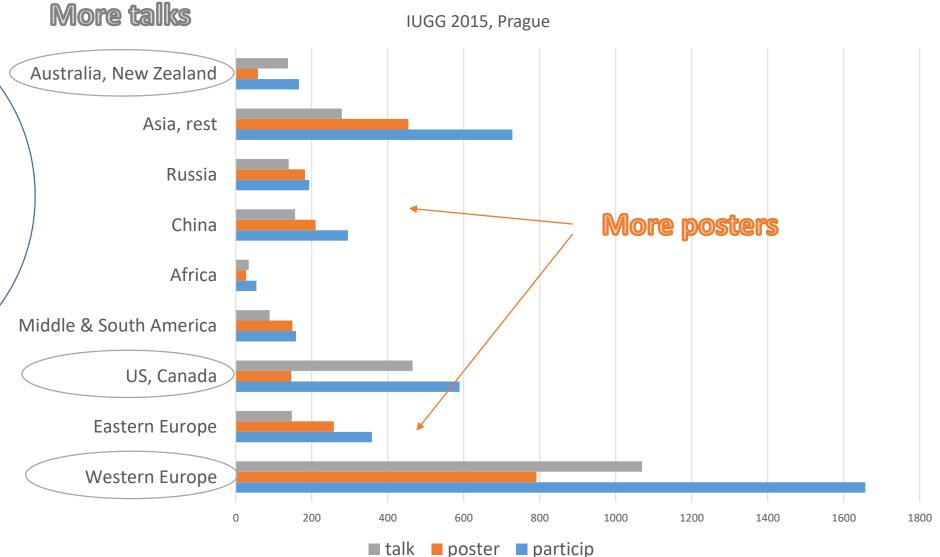
#### Participation: Talk vs Poster

IUGG 2015 Prague

(4790 abstracts, 39% WEU, 9% EEU)

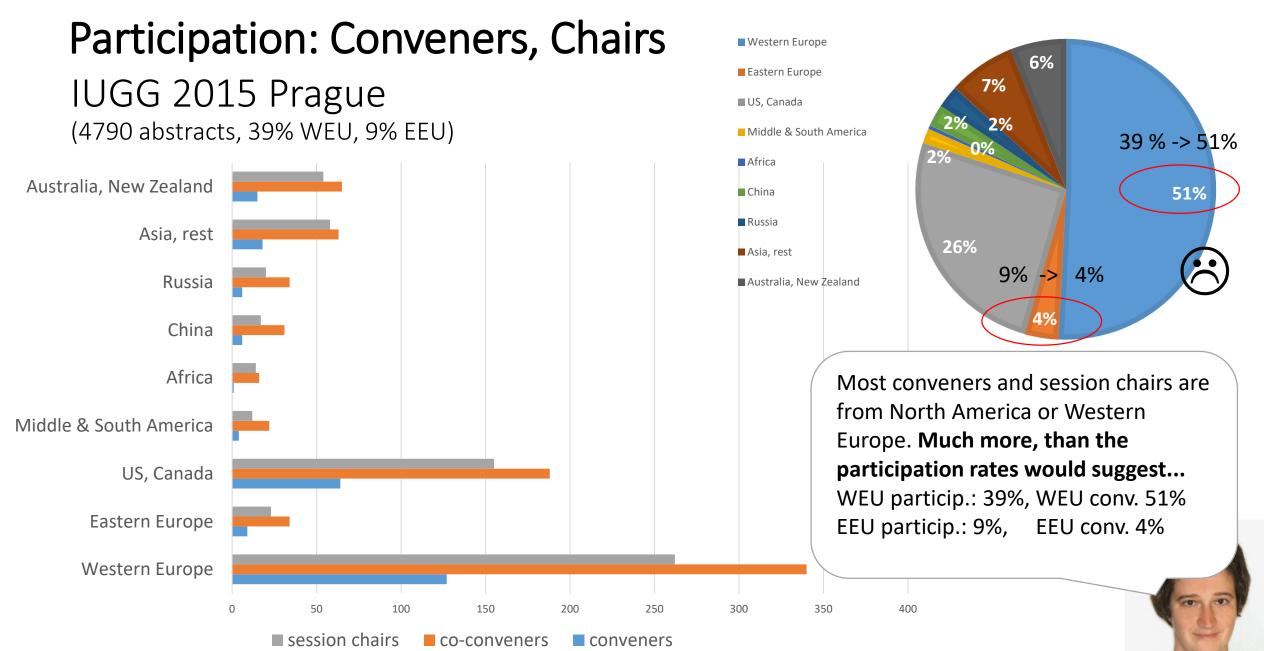


Eastern Europe belongs to the poster-regions.

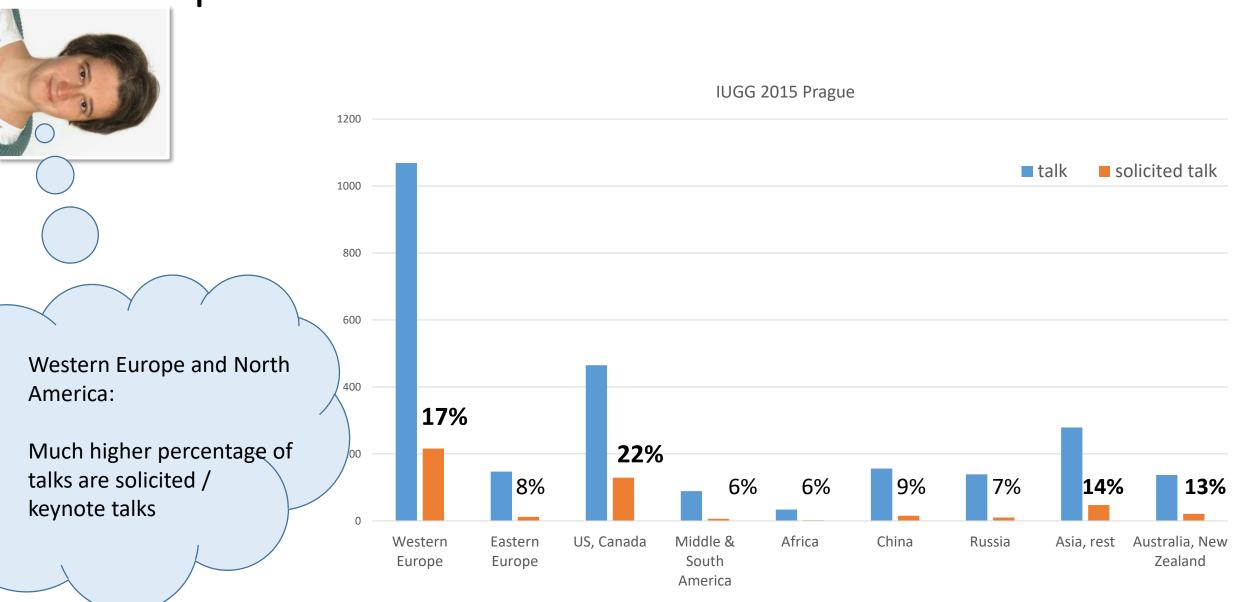




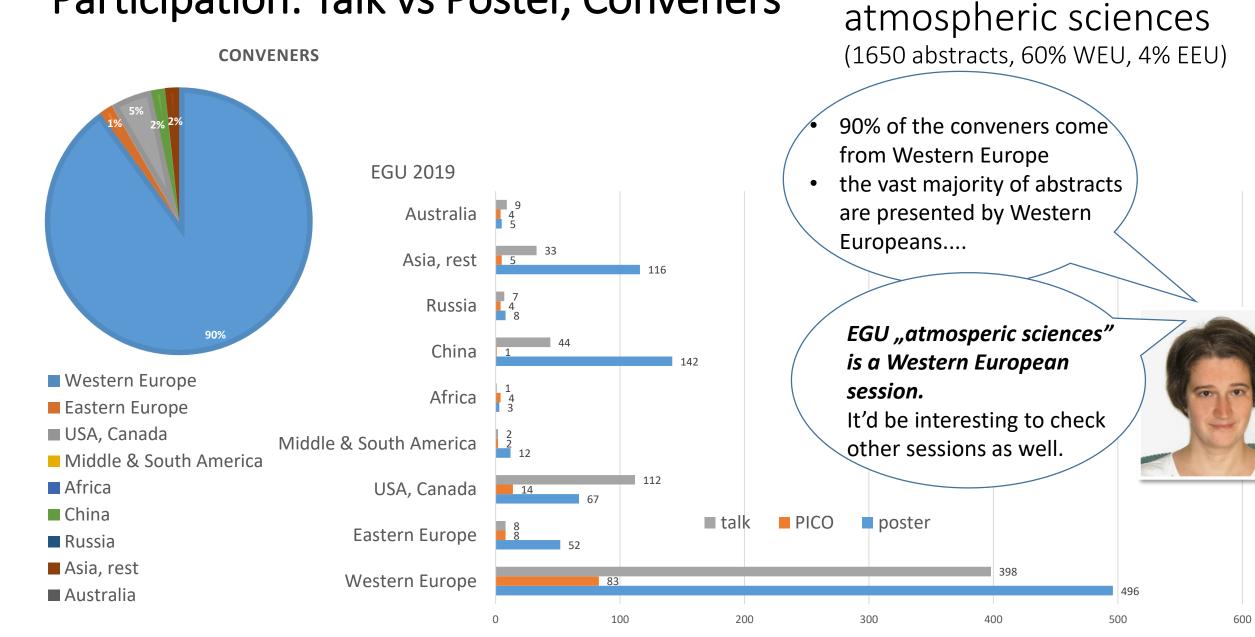
#### **CONVENERS**



### Participation: Talks & solicited talks



### Participation: Talk vs Poster, Conveners



EGU 2019 session:



• e.g.3. EPSC 2017 Riga

• e.g.5. ESPM, Budapest



#### Participation: Talk vs Poster, Conveners

#### EPSC 2017 Riga

(926 abstracts, 62% WEU, 18% EEU)

	Western Europe	Eastern Europe	Non-Europe
Total number of abstracts	643	63 ~7% of all abstracts	220
Oral presentations	392	27 ~5% of all orals	130
Keynote talks	22	0	15 (all from US)



Eastern European participants at Riga made up 18% of all participants.

**BUT** only 7% of the abstracts were presented by Eastern Europeans, and only 5% of talks were made by EEU scientists.

#### Participation: Talk vs Poster, Conveners

## ESPM 2015 Budapest (255 abstracts, 56% WEU, 25% EEU)

	Western Europe (Participants: 56%)	Eastern Europe (Participants: 25%)	Non-Europe
Total number of abstracts (Oral + poster)	149	57 ~22% of all abstracts	49 (Why so low??)
Oral presentations	49	10 ~14% of all orals	11
Keynote talks	17	1 (4.5% of all keynotes, no local)	4

Active participation of Eastern Europeans is much better: 57 abstracts: **22% of total** 

14% of talks and 4.5% of keynotes is a very low number at such a high participation rate.

#### Conclusions

- Location predefines global participation rates
- Eastern Europe is underrepresented in European conferences
  - participation rate is ~6-8%, it should be ~15%
- Organising meetings in Eastern Europe boosts local participation
- Active participation (conveners, talks, keynote) of Eastern Europeans is still to be supported.
- Invite at least 1 local keynote speaker, encourage locals to show their expertise.



VIRTUAL CONFERENCES are a new possibility for Eastern Europe or anybody who is unable to travel.

Let's create a new genre, see the positive sides and go online ©