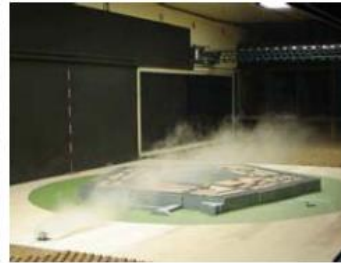
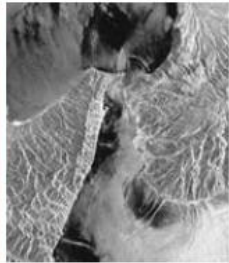
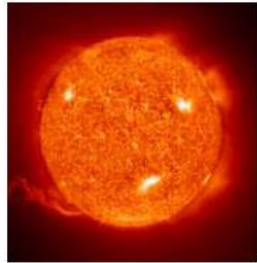
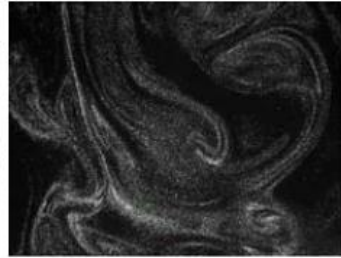


# 6<sup>th</sup> EULAG USERS WORKSHOP

28-30, May, 2018  
University of Warsaw,  
Faculty of Physics



"Efficient forward-in-time  
methods for geophysical  
research and all-scale weather  
prediction"

## Introduction

**Andrzej Wyszogrodzki**  
**IMGW-PIB**

# 6<sup>th</sup> EULAG USERs WORKSHOPS

"Efficient forward-in-time methods for geophysical research and all-scale weather prediction"

- ❑ Numerics: NFT solvers, algorithmic developments and integrations
- ❑ Physics: waves and turbulence
- ❑ NWP: PROPOZE and CELO projects on COSMO-EULAG
- ❑ Physics: MHD and clouds
- ❑ Numerical modeling of the atmosphere in Poland
- ❑ EULAG hands-on week

# PAST EULAG USERS WORKSHOPS

*First idea of EUW came in spring 2007  
during Andreas Doernbrack visit in Boulder, CO*

## formalized gathering of EULAG users/developers:

- ☐ exchange of information and experiences among all the EULAG users
- ☐ outline the current status of the various developments
- ☐ Provide tutorials covering essential physical, mathematical and numerical aspects of EULAG
- ☐ collaborate/interact with other colleagues working in similar fields but using different numerical/theoretical tools
- ☐ develop ideas for further funding of research and establish new partnerships

# PAST EULAG USERS WORKSHOPS

6-10 October 2008, Bad Tolz, Germany

34 participants,  
28 presentations



MetStröm



**ETH**  
Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich



13-16 September, 2010. Sopot, Poland

IMGW-PIB headquarters in Sopot  
sea resort on the Baltic sea

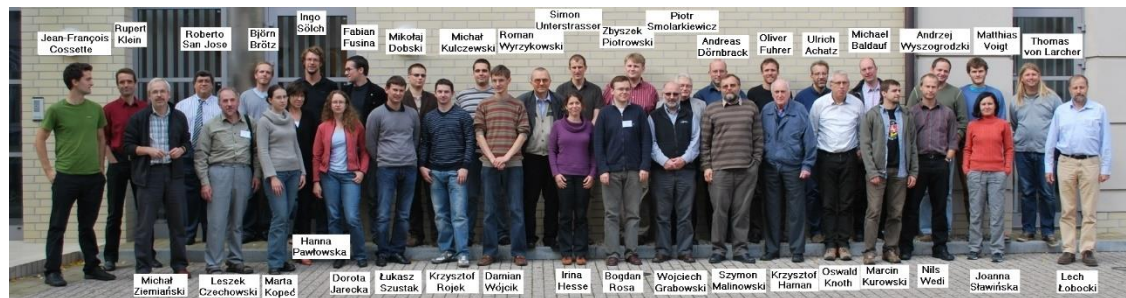
39 participants  
25 presentations,  
1 poster



Topical issue of Acta Geophysica

*„Modeling Atmospheric Circulations  
with Sound-proof Equations”*

<http://agp.igf.edu.pl/index.php?action=show&issue=59&subissue=6>  
(10 papers)





# PAST EULAG USERs WORKSHOPS

**25-28 June, 2012, Loughborough UK**  
**3rd International EULAG Workshop**  
**on Eulerian/Lagrangian methods for fluids.**



55 participants  
39 presentations



**No group photo (English weather !)**

**20-24 October 2014, Mainz, Germany**  
**„Forward in time differencing for Earth-system models”**

[Institute of Atmospheric Physics, Johannes Gutenberg University](#)

40 participants  
40 presentations



# PAST EULAG USERs WORKSHOPS

**3-6 October 2016, ECMWF, Reading, UK**  
**„Workshop on numerical and computational methods for simulation of all-scale geophysical flows”**



33 participants  
32 presentations



**28-30 May 2018, Warsaw, Poland**  
**„Efficient forward-in-time methods for geophysical research and all-scale weather prediction”**

University of Warsaw, Faculty of Physics

42 participants  
26 presentations  
Hands-on workshop in the following week



European  
Funds  
Smart Growth



Foundation for  
Polish Science

European Union  
European Regional  
Development Fund

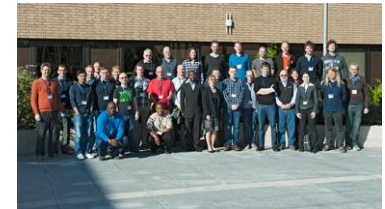
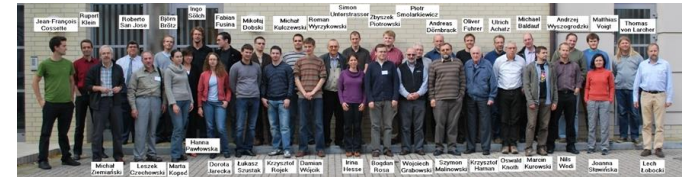
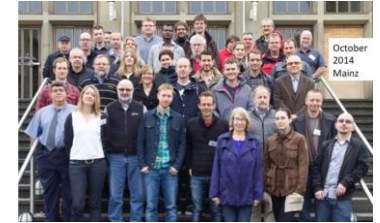


# EULAG USERS community

- ✓ 6 EULAG USER workshops since 2008
- ✓ 245 participants
- ✓ 10 articles in topical issue of Acta Geophysica
- ✓ 15 tutorial lectures
- ✓ 190 presentations available online

<http://www2.mmm.ucar.edu/eulag/>

- ✓ ~170 registered users



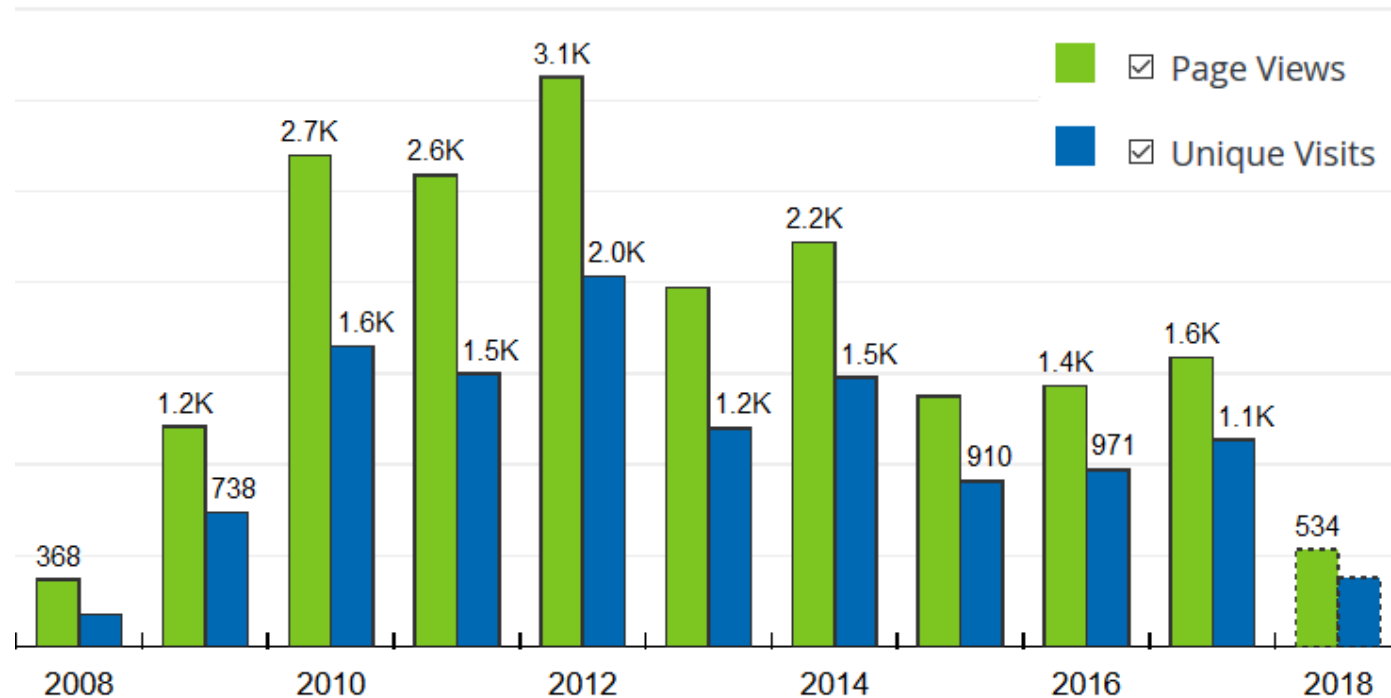


# EULAG WEB PAGE statistics

<http://www2.mmm.ucar.edu/eulag/>

(total 19120, unique 12167)

~170 registered users



Average Yearly Page Views

**1.5K**

Average Yearly Unique Visits

**935.9**

Average Yearly First Time Visits

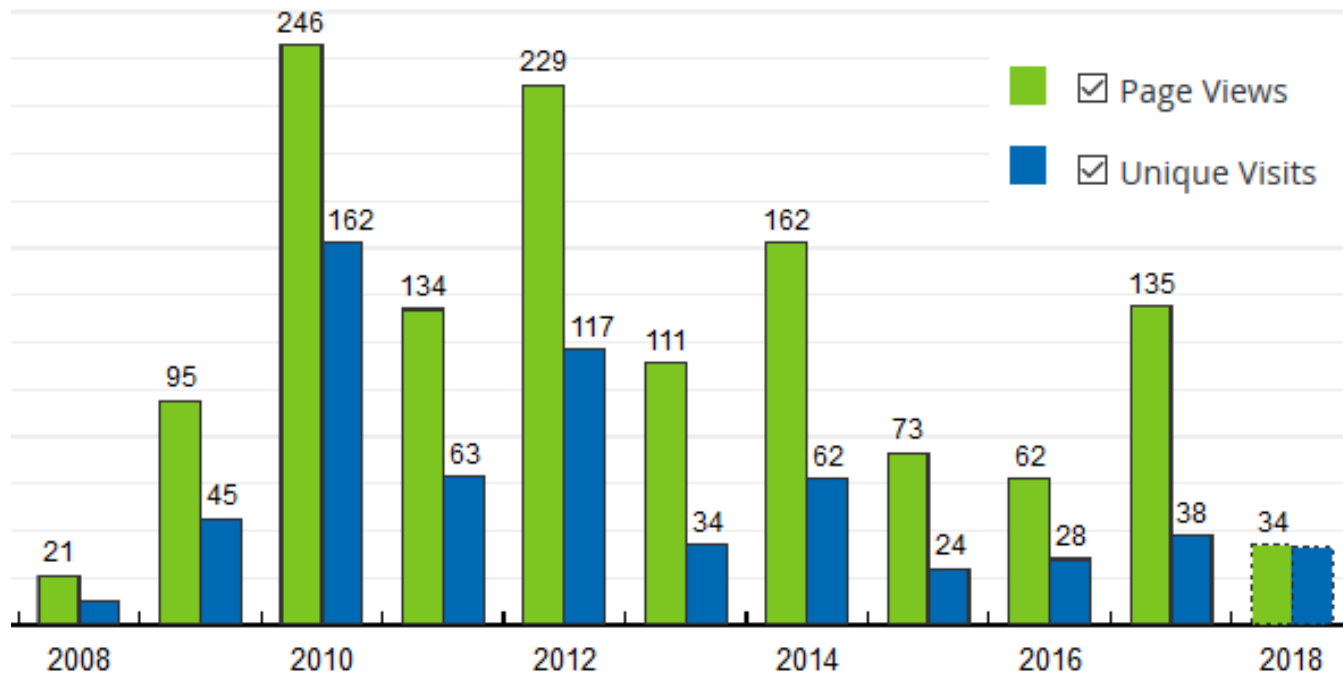
**626.8**



# EULAG download statistics

<http://www2.mmm.ucar.edu/eulag/repository/>

(total 1302, unique access 606)



Average Yearly Page Views

**100.2**

Average Yearly Unique Visits

**47.4**

Average Yearly First Time Visits

**37.2**

# Recent Visitor Map

## (last 4 months)

97		19.40%	Poland		
79		15.80%	Germany		
49		9.80%	United States		
37		7.40%	Switzerland		
32		6.40%	China		
31		6.20%	United Kingdom		
24		4.80%	Slovenia		
22		4.40%	Colombia		
19		3.80%	France		
18		3.60%	India		
17		3.40%	Canada		
9		1.80%	Mexico		
8		1.60%	Spain		
8		1.60%	Austria		
7		1.40%	Sweden		
7		1.40%	Hong Kong		
6		1.20%	Europe		
5		1.00%	Japan		
4		0.80%	Italy		
4		0.80%	Botswana		





















4		0.80%	Brazil		
3		0.60%	Belgium		
1		0.20%	Vietnam		
1		0.20%	Taiwan		
1		0.20%	Russian Federation		
1		0.20%	Netherlands		

1		0.20%	Indonesia		
1		0.20%	Algeria		
1		0.20%	Czech Republic		
1		0.20%	Cote D'ivoire		
1		0.20%	Bulgaria		
1		0.20%	Australia		

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