

TRANSMIT



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TRAINING RESEARCH AND APPLICATION NETWORK TO SUPPORT THE MITIGATION OF IONOSPHERIC THREATS

Which ionospheric model?

Pavel Najman, Tomislav Kos
University of Zagreb
Pavel.najman@fer.hr

18/11/2014 – ESWW11

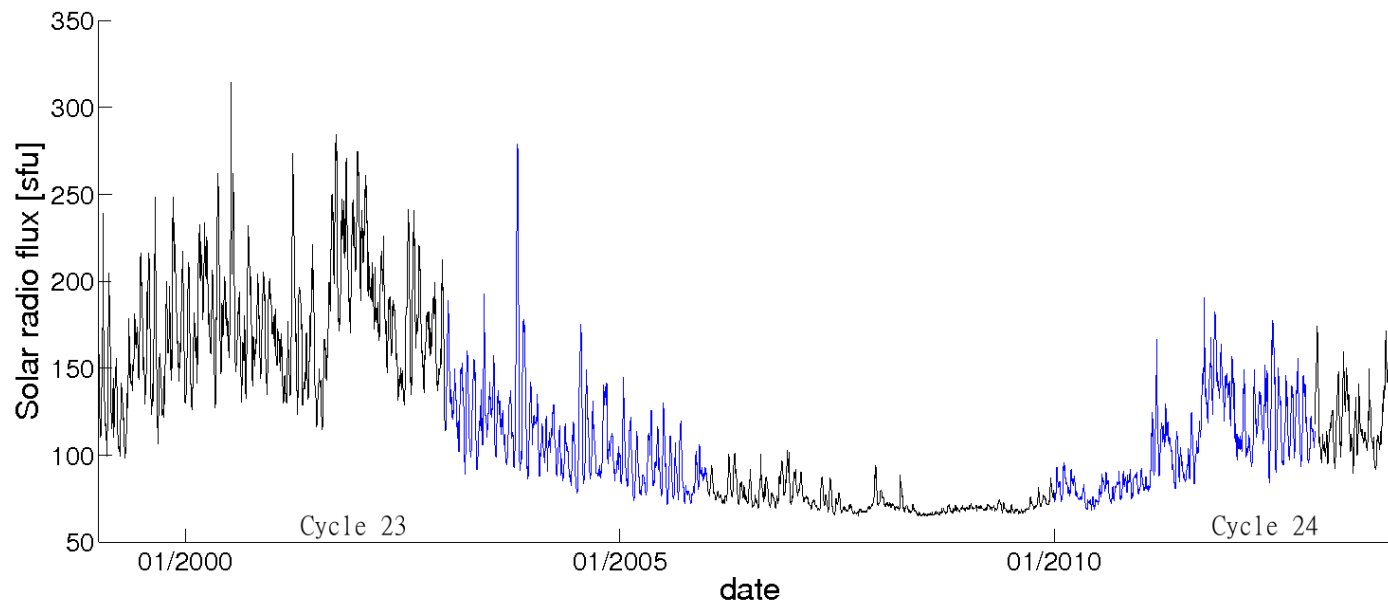


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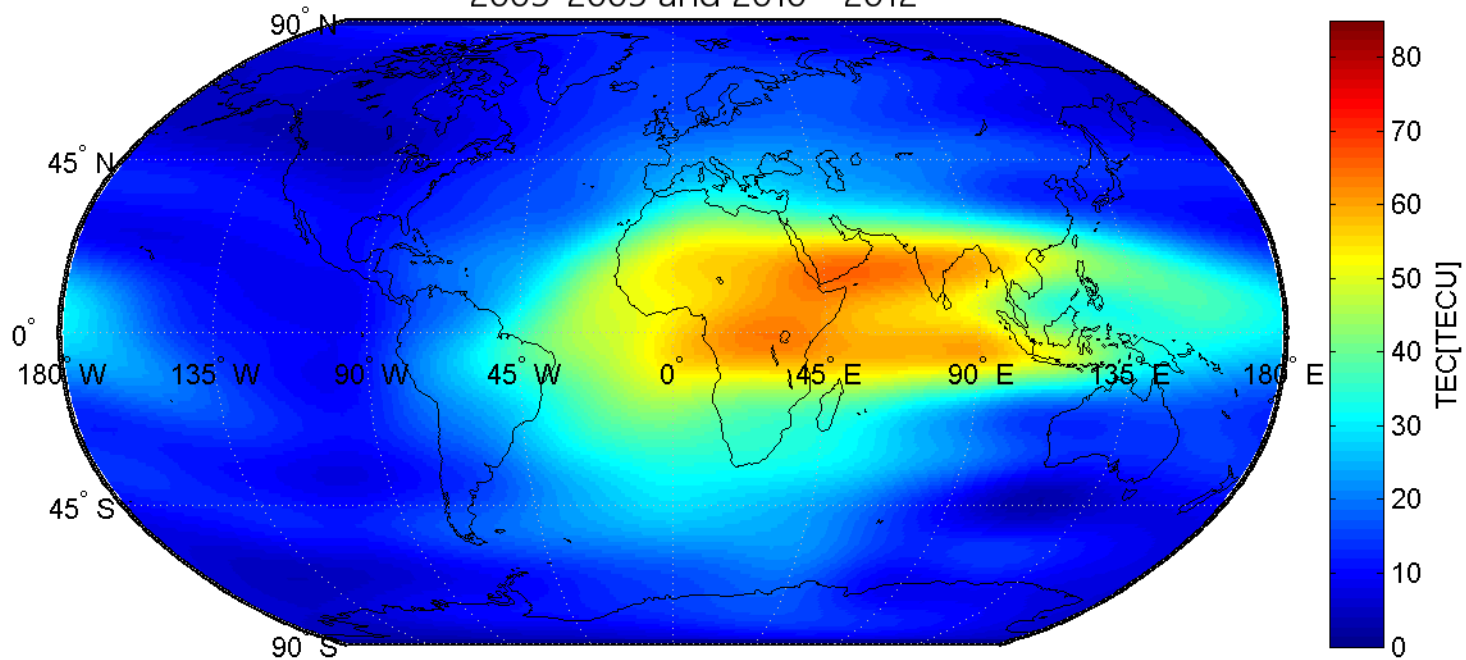
- Global analysis (IRI2012, Klobuchar, NeQuick2, NTCM)
- How much models' performance differs
- Find optimum model for given conditions
- Take advantage of multiple models





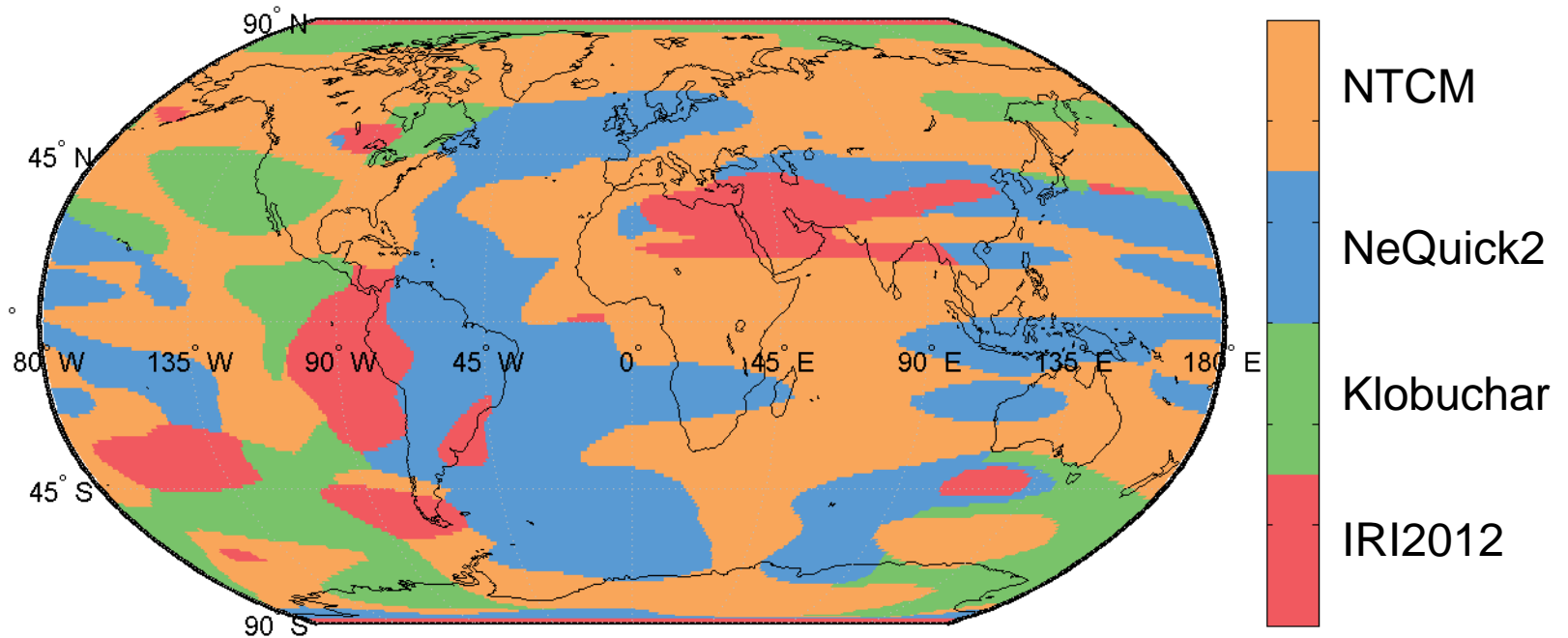
Average CODE map - May, 12 UT, 105-118 sfu

2003-2005 and 2010 - 2012





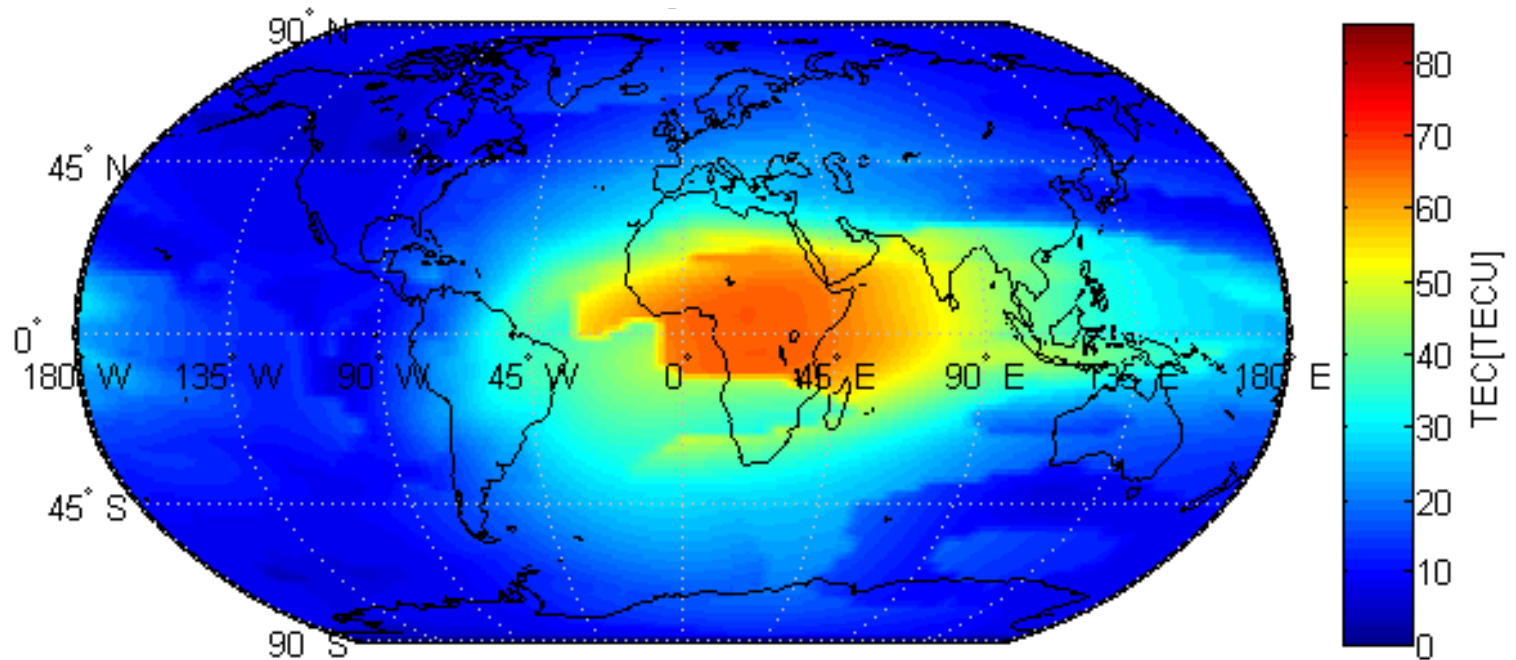
Optimum model distribution map



Based on CODE data from years 2003-2005 and 2010-2012



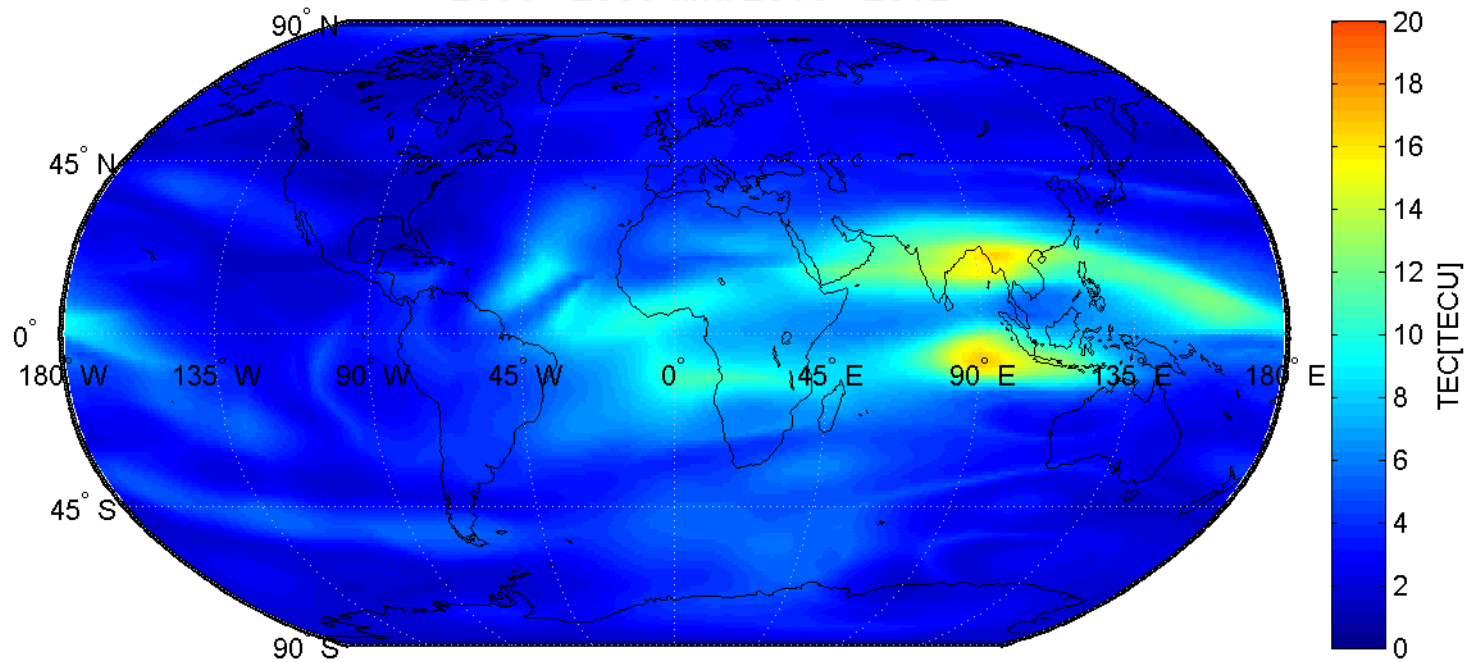
Constructed map according to the optimum model distribution





Difference between CODE map and constructed map

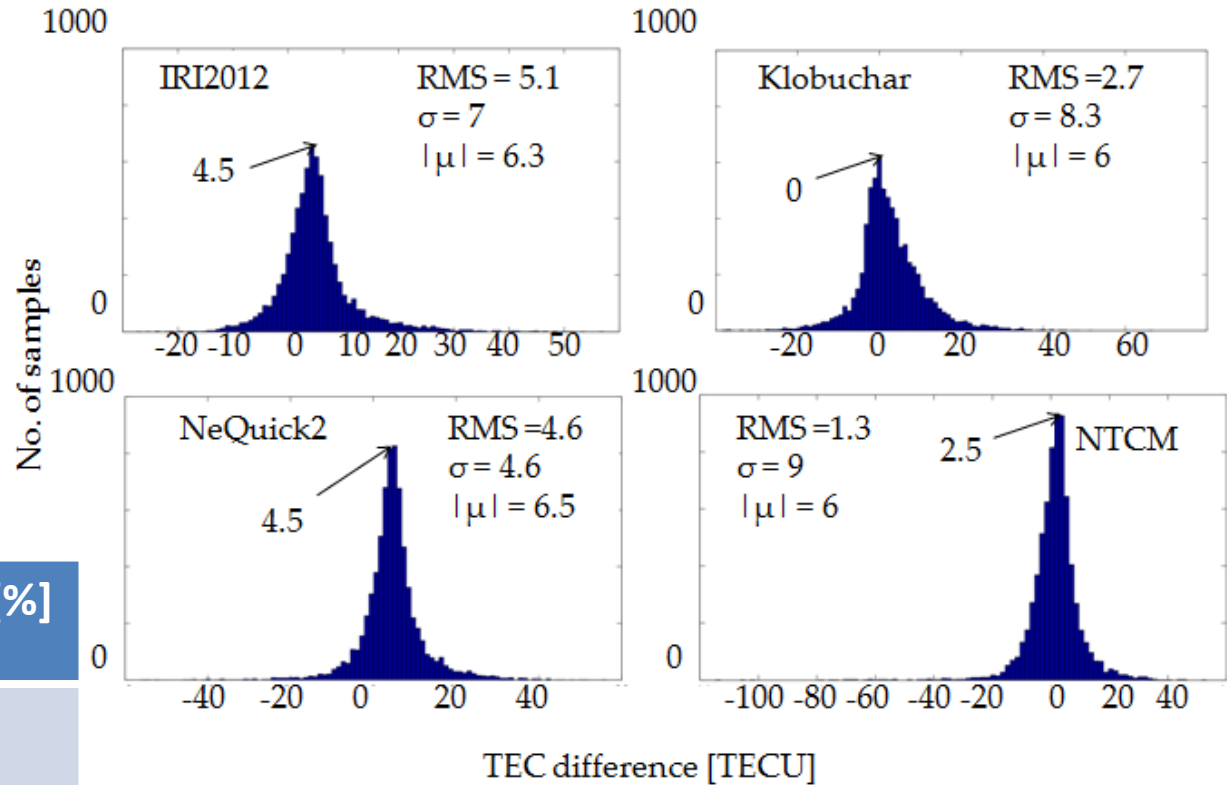
2003 - 2005 and 2010 - 2012





Place	Ratio [%]
1 st	42.6
2 nd	23.8
3 rd	16.5
4 th	17.1

data	$ \mu $	Impr [%]
2003-2005	4.33	21.3
2010-2012	4.97	16.9
Both	4.71	19.9



100 % right -> $|\mu| = 2.8$ TECU -> 48 % impr.



Thank you !

ACKNOWLEDGEMENTS:

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 264476.

We would also like to acknowledge:

Astronomical Institute of University of Bern for CODE map

International Centre for Theoretical Physics in Trieste for source code of NeQuick2 model

Norbert Jakowski and Mohammed Mainul Hoque for the source code of NTCM model and valuable advices and suggestions