

Interactive comment on “Pan-Eurasian Experiment (PEEX): Towards holistic understanding of the feedbacks and interactions in the land–atmosphere–ocean–society continuum in the Northern Eurasian region” by Hanna K. Lappalainen et al.

Hanna K. Lappalainen et al.

hanna.k.lappalainen@helsinki.fi

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ANNEX-1 Anonymous Referee 2

Anonymous Referee 2 1. Page 34, line 1314; you mention that “Sulfur emissions in China are rapidly increasing”. Please give some references about it. As I know, the emissions of NO₂ is increasing rapidly in China, while the increasing of SO₂ is complex after 2008 Olympic Games. AUTHORS’ RESPONSE: We refer to Lu & Zhang:

C1

Sulfur dioxide and primary carbonaceous aerosol emissions in China and India, Atmos. Chem. Phys., 11, 9839-9864, 2011 where they say that “SO₂ emissions first increased by 61 % to 34.0 Tg in 2006, and then decreased by 9.2 % to 30.8 Tg in 2010 due to the wide application of flue-gas desulfurization (FGD) equipment in power plants”. The text has been modified as following: ” “For example, sulfur emissions in China creased rapidly until 2006, and then decreased by 9.2 % to 30.8 Tg in 2010 due to the wide application of flue-gas desulfurization (FGD) equipment in power plants (Lu and Zhang 2011), while emissions in Europe have significantly decreased during the last decades.”

2. Page 2 line 76 “Graduate University of Chinese Academy of Sciences” as “Graduate University of Chinese Academy of Sciences” AUTHORS’ RESPONSE: corrected

3. Fig 2 & Fig 3 with low resolution are not clear as other picture, please update them. AUTHORS’ RESPONSE: new higher resolution figures are provided.

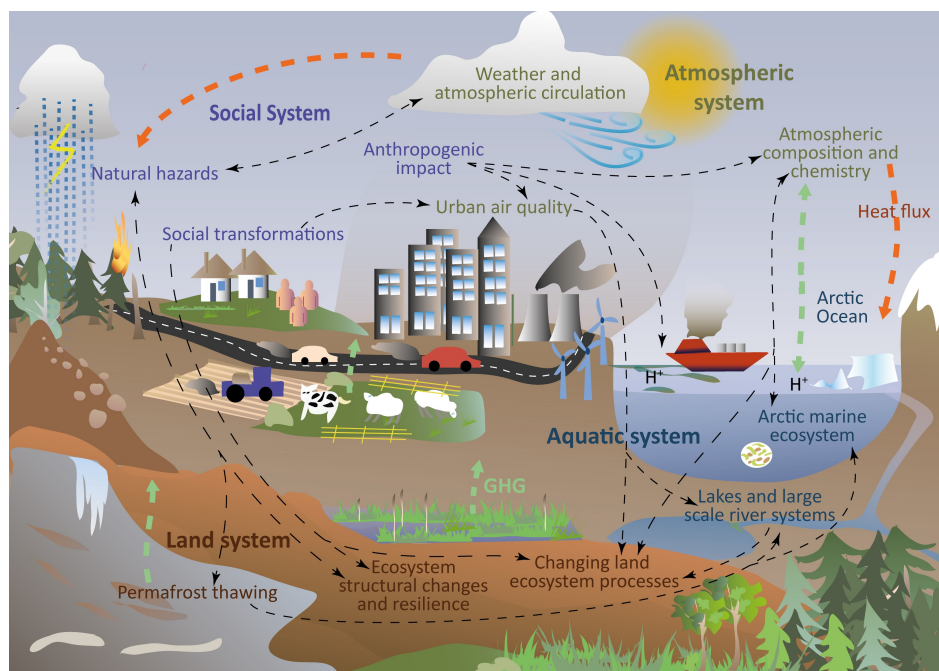
4. Page 6 line 189: spelling mistake of “atmosphere” AUTHORS’ RESPONSE: corrected

Please also note the supplement to this comment:

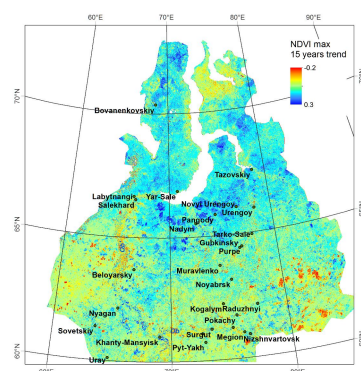
<http://www.atmos-chem-phys-discuss.net/acp-2016-186/acp-2016-186-AC2-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-186, 2016.

C2



C3



C4

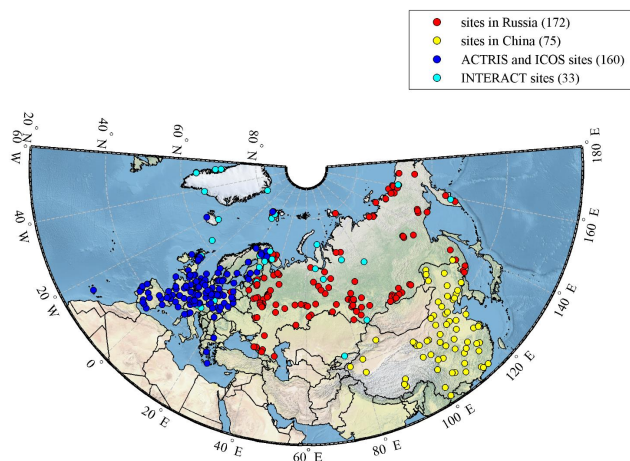


Fig. 3.

C5

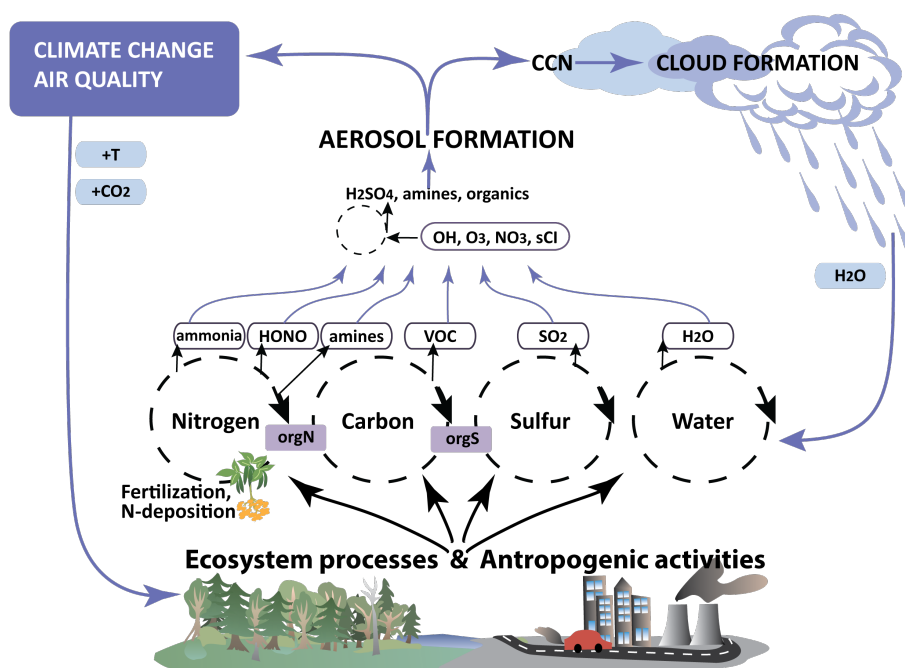


Fig. 4.

C6

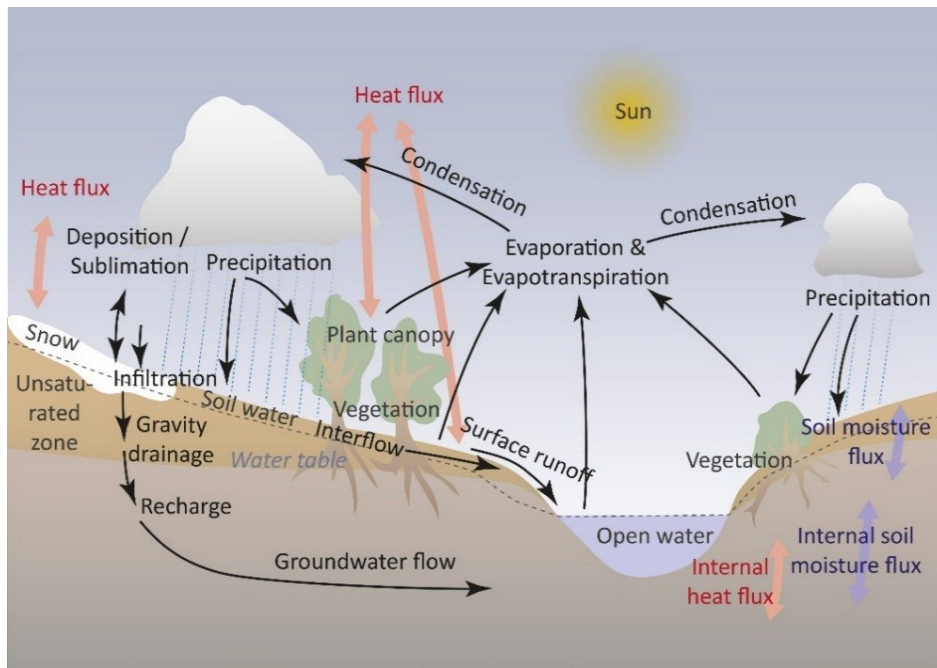


Fig. 5.

C7

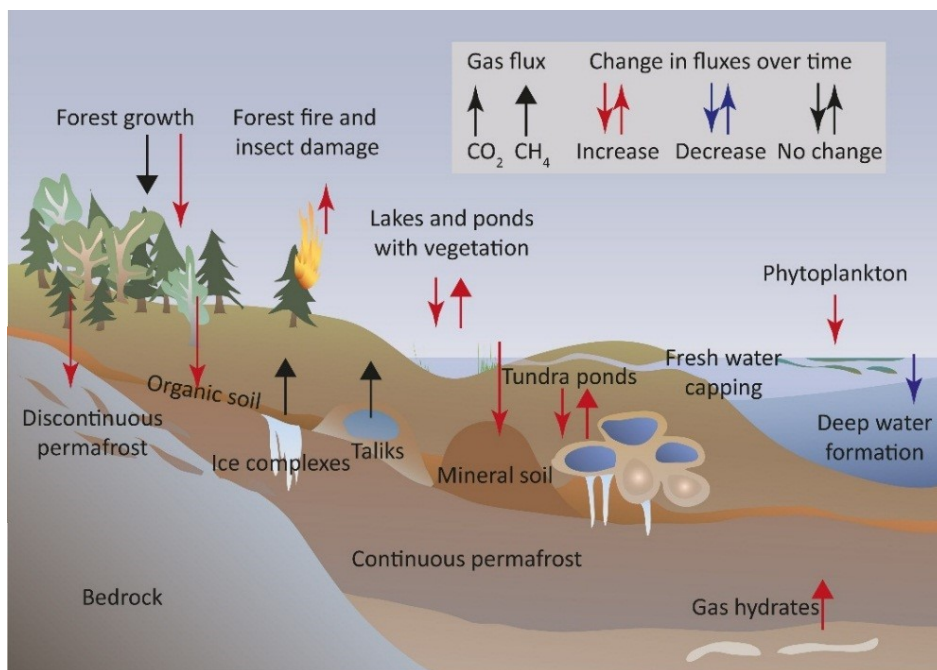


Fig. 6.

C8

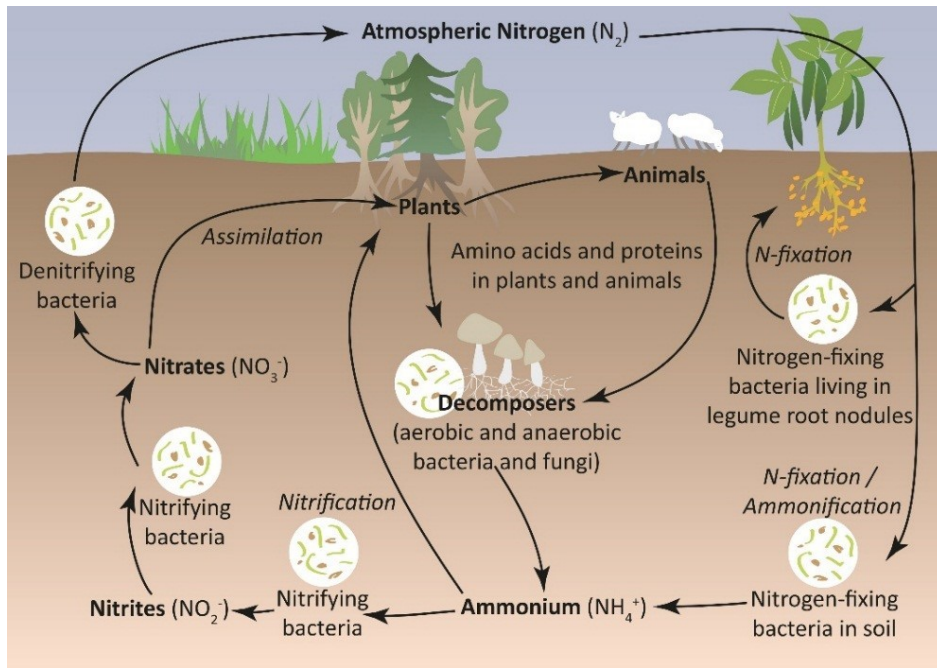


Fig. 7.

C9

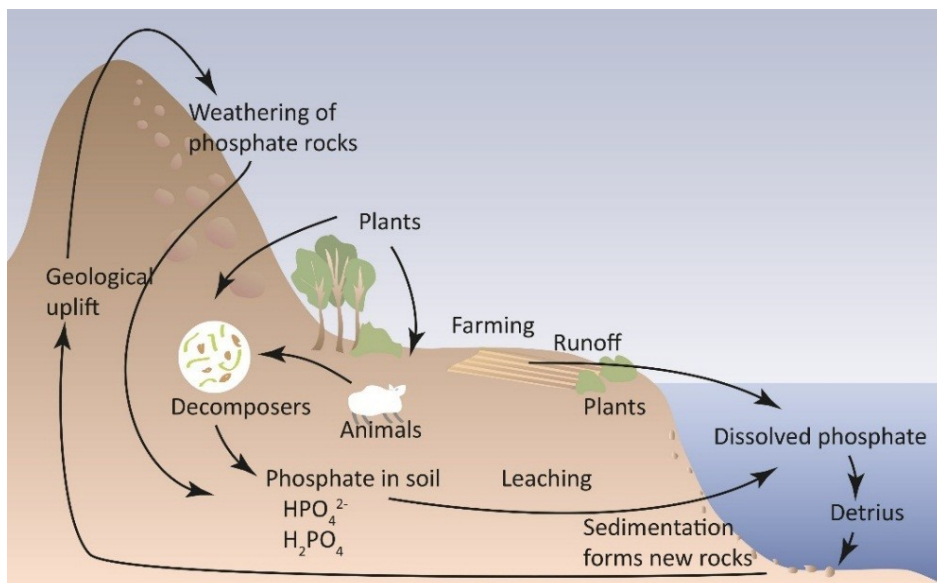


Fig. 8.

C10

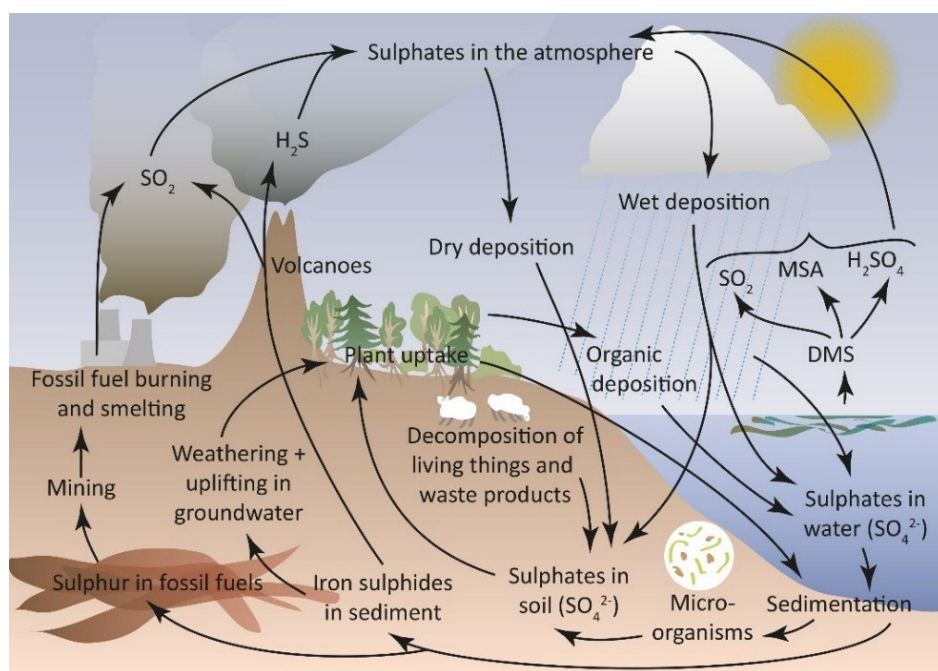


Fig. 9.

C11

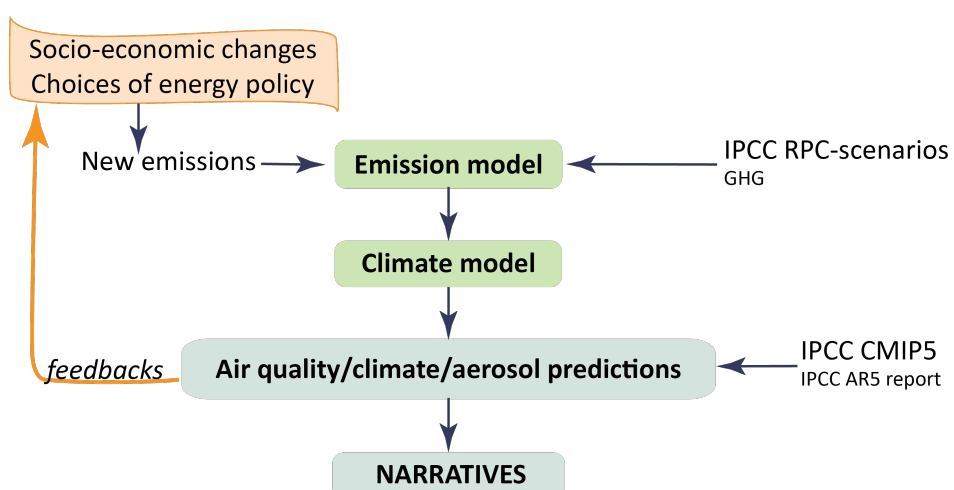


Fig. 10.

C12