

SHORT TERM SCIENTIFIC MISSION (STSM) SHORT ABSTRACT

Action number: CA18135 - *Fire in the Earth System: Science & Society*

STSM title: *Burned area, weather, landscape and socioeconomic spatial interaction analysis case study in Sweden*

STSM start and end date: 21/07/2021 to 27/08/2021

Grantee name: Reinis Cimmins

ABSTRACT:

STSM was used to determine the reasons of recent wildfires in Sweden. To do that we developed a spatial database based on remote sensing products and national datasets to include factors explaining fire probability. We analysed lightning strike, weather parameter, landscape, biophysical and socioeconomic factor relation with historically burned areas in Sweden. Explanatory variables were plotted in different combinations to understand the pattern and connection between them, and statistical analysis has been carried out. Project database and preliminary analysis were presented in a remotely organized International Boreal Forest Research Association (IBFRA) 2021 conference.