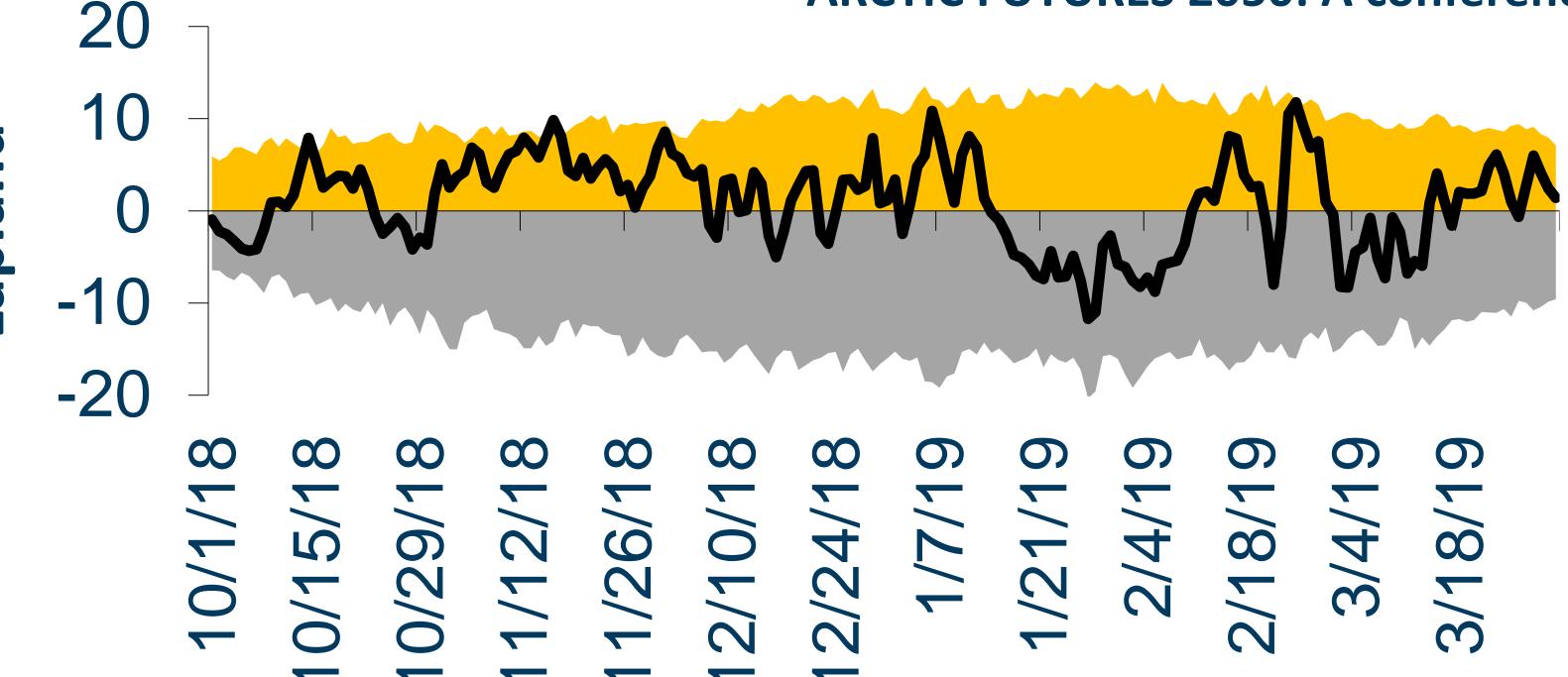
Smart educative tools for climate change action

Shaktiman Singh*, José A. Gordillo Martorell, Anshuman Bhardwaj & Javier Martin-Torres

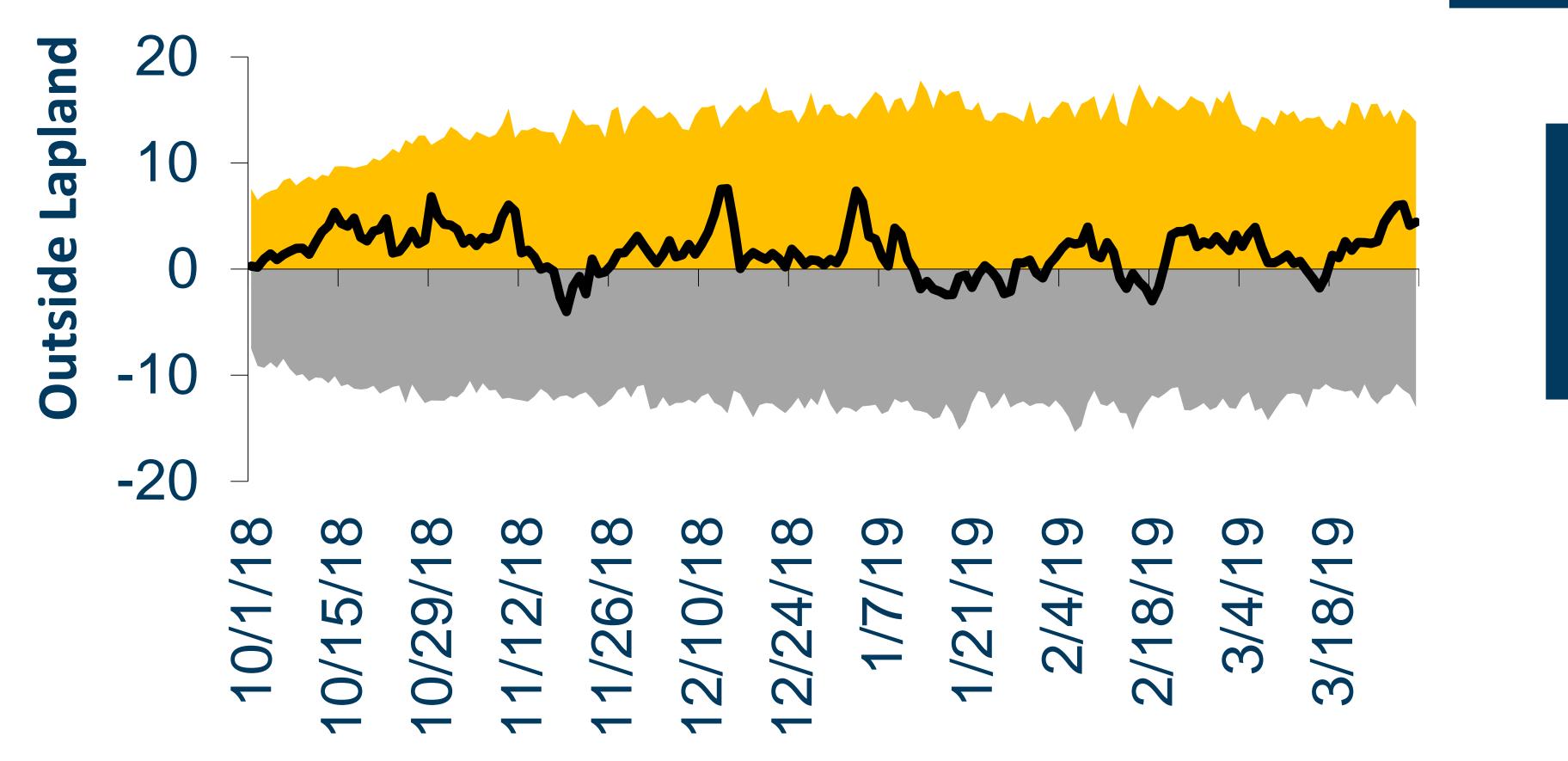
Group of Atmospheric Science (www.atmospheres.research.ltu.se), Luleå University of Technology, Sweden *shaktiman.singh@ltu.se, www.ltu.se/staff/s/shasin-1.180024?l=en

ARCTIC FUTURES 2050: A conference, September 2019, Washington DC, USA



Select a climate sensitive landscape of interest with a working weather station nearby for climate data

Educative Tool for High School Teachers and Students



Graph showing the departure of wintertime (October-March) daily average temperature (in °C) in 2018-19 (Black line) from long-term daily average for the stations in Scandinavian Lapland (12 stations) and outside Lapland (8 stations) in the Arctic Circle. An envelope of maximum (Yellow) and minimum (Grey) of daily average temperature (in °C) available for both regions have also been shown in the graph.

Download and analyze data from nearest station

Statistical

Interpretation

Map the extent of the landscape on GoogleEarth

Visual

Interpretation

Check for statistical

Visualize the past

Motivation: The vigorous increase in number of climate change deniers and fake news on social media

Kråkbergsskolan, Luleå, SW 17 (9 Female and 8 Male) students of age group 14-16 Years

Strong relevance to the Swedish curriculum of 'Geography' and 'Technology'



parameters of climate change

satellite images using the extent

Noticeable change in perception and opinion about scientific and social aspect of climate change

Improved skills of acquisition and analysis of observed weather station and satellite data

Will have long-term behavioral change due to sense of participation and contribution in analyzing changes in a place of interest

Part of broader educative sequence to be continued in schools in Sweden with analyzed data and maps archival on group's webpage

GROUP of ATMOSPHERIC SCIENCE

at Luleå University of Technology







