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

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**Educative Tool for High School Teachers and Students**

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

**Statistical Interpretation**

Download and analyze data from nearest station

**Visual Interpretation**

Map the extent of the landscape on GoogleEarth

**Check for statistical parameters of climate change**

Visualize the past satellite images using the extent

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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.

**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’**

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

**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**