

## **Call for papers**

The *Journal of Earth System Science* (Springer and Indian Academy of Sciences, (Impact Factor= 1.423) is coming up with a thematic issue entitled "***Aerosols-Climate interaction and water resources over The Himalayas***". The Guest Editors of this thematic issue will be Drs S. Suresh Babu (SPL, VSSC, Thiruvananthapuram, India), T. Narayan Rao (NARL, Tirupati, India) U.C.Dumka (ARIES, Nainital) and Alok S. Gautam (HNBGU, Uttarakhand, India).

We would like to invite authors working in this domain to submit their high quality research papers to this Thematic Issue of JESS.

Submission of manuscript open : 24<sup>th</sup> August 2020

Deadline for the submission of the manuscript: 31<sup>st</sup> January 2021.

## **Special Issue Information**

Dear Colleagues,

The great Himalayas, spanning ~2500 km from west to east between the Indian subcontinent and Tibetan Plateau (TP) have profound significance, with its glaciers believed to be the largest freshwater reservoirs outside the polar region, in the hydrological cycle over South Asia, in general, and India in particular. It is now well established that these huge freshwater reservoirs are quite dynamic; some retreat, some advance, and some show marginal changes. Even though there are several geological and glaciological processes responsible for this dynamism, snow-albedo reduction due to deposition of light absorbing aerosols (Black Carbon (BC) or mineral dust particles suspended in the atmosphere) on snow is being increasingly projected as a major factor contributing to the faster snow/glacier melting. The aerosol induced free-tropospheric heating over the Himalayan glaciers also has received significant scientific attention because of its projected implications on the regional climate and hydrological cycle. The special issue on "**Aerosols-Climate interaction and water resources over the Himalayas**" in the Journal of Earth System Science will focus on aerosol characteristics over the Himalayan region and the role of aerosol-climate interactions on the water resources over the Himalayas.

## **Guest Editors**

Dr. S Suresh Babu (SPL, VSSC, Thiruvananthapuram, E-mail: [sureshsplvssc@gmail.com](mailto:sureshsplvssc@gmail.com))

Dr. T. Narayan Rao (NARL, Tirupati, E-mail: [tnrao@narl.gov.in](mailto:tnrao@narl.gov.in))

Dr. Umesh Chandra Dumka (ARIES, Nainital, E-mail: [ucdumka@gmail.com](mailto:ucdumka@gmail.com))

Dr. Alok S Gautam (HNBGU, E-mail: [phyalok@gmail.com](mailto:phyalok@gmail.com))

## **Manuscript Submission Information**

The manuscripts should be submitted online at <https://www.editorialmanager.com/jess/Default.aspx> by registering and logging in to this website. Once you are registered, go to the website <https://www.editorialmanager.com/jess/default.aspx> and go to the Submit new manuscript and then select article type “***Thematic Issue (Aerosols-Climate Interaction and Water Resources over The Himalayas)***”. The manuscript can be submitted until the deadline. All papers will be thoroughly refereed through a single-blind peer-review process. The accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the Thematic Issue website. Research articles, review articles as well as short communications are invited. The submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors page <https://www.springer.com/journal/12040/submission-guidelines>. Also, please mention in the comment section that this paper is submitted under the Thematic Issue “**Aerosols-Climate Interaction and Water Resources over The Himalayas**” along with the header or footer of your manuscript.

### **Keywords**

Aerosols, Air Pollution, Black Carbon, Dust, Grater Himalayas, Tibetan Plateau, Extreme Events, Monsoon, Climate Change, Aerosol-Climate Interaction, Cloud-Aerosol Interaction , Water Resources, Glacier