

## Curriculum Vitae

### SUNIL OULKAR

National Centre for Polar & Ocean Research

Headland Sada, Vasco-Da-Gama, Goa- 403804, India.

Email: [sunil.oulikar@gmail.com](mailto:sunil.oulikar@gmail.com) and [sunil@ncaor.gov.in](mailto:sunil@ncaor.gov.in)

Born March 16, 1991. Mobile: 7709897083

---

- |                         |  |
|-------------------------|--|
| Education               | <ul style="list-style-type: none"><li>• Savitribai Phule Pune University &amp; Indian Institute of Tropical Meteorology, India.<br/>M. Tech: Atmospheric and Space Science, (2014 – 2016)<br/>Thesis Title: “Effect of Land Surface Conditions on Lightning Distribution over the Wet and Dry Regions in the Himalayas” (2016),</li><br/><li>• Solapur University, India.<br/>B. Tech: Electronics &amp; Telecommunication, (2009 – 2013).</li></ul> |
| Research Experience     | <ul style="list-style-type: none"><li>• Senior Research Fellow, National Center for Polar &amp; Ocean Research (NCPOR), Goa<br/>Integrated glaciological monitoring of benchmark glaciers of Chandra basin, Western Himalayas (December 2016 – Present).</li><br/><li>• Project Fellow, Indian Institute of Tropical Meteorology (IITM), Pune<br/>Thunderstorms Dynamics, Atmospheric electricity (May 2015 – November 2016).</li></ul>              |
| Research Interests      | <ul style="list-style-type: none"><li>• Glacier mass balance modelling</li><li>• Glacier Meteorology</li><li>• Glacier physics &amp; dynamics</li><li>• Glacio-hydrological models</li><li>• Glacier-Atmosphere interaction</li></ul>  |
| Project                 | <ul style="list-style-type: none"><li>• To understand the spatiotemporal changes in the mass balance of the Chandra Basin glaciers <b>using surface energy and mass balance modeling and field-based glaciological</b> measurements in Western Himalaya, India.</li></ul>  |
| Computational Expertise | <ul style="list-style-type: none"><li>• MATLAB, NCL, CDO, Shell Scripting and, LINUX based tools.</li></ul>  |

- Field Experience
- Himalaya expedition to Chandra basin for Glaciological studies under the program “Himalayan Cryosphere”
    - June 10, 2017 – October 12, 2017.
    - April 29, 2018 – June 12, 2018.
- Publications
- **Sunil Oulkar**, Devendraa Siingh, Upal Saha, and A.K. Kamra, "Distribution of lightning in relation with topography and vegetation cover over the dry and moist regions in the Himalayas", Journal of Earth System Science (Under review).
  - **Sunil Oulkar**, Parmanand Sharma, Ajit Singh, Lavkush Kumar Patel, Bhanu Pratap, Thamban Meloth, "Surface energy and mass balance of Sutri Dhaka glacier, Chandra Basin, Western Himalaya, India" (under preparation).
- Courses
- Fundamentals of Earth Science,
  - Climate Change and Modelling,
  - Mathematical and Statistical Methods,
  - General Circulation and Atmospheric Energetics,
  - Numerical Weather Prediction,
  - Introduction to Meteorology, etc.
- Training
- UX5HP Unmanned Aerial Vehicle (UAV) training certificate (May 09, 2018).
  - Attended training on **Glacier, Climate Change and Remote Sensing** at Divecha Centre for Climate Change Bengaluru, Indian Institute of Science (July 18 to 29, 2016).
  - Attended a workshop on “**MADICE-Summer School on Antarctic Climate Variability and Ice Dynamics**” (May 8 to 11, 2017).
- Symposium
- **Sunil Oulkar**, Devendraa Siingh, and A. K. Kamra, “The Effect of Altitude on Lightning Distribution over the Western and Eastern Regions of the Himalayan Range” poster presented at National Conference on Polar Sciences (NCPS-2017), NCPOR, Goa, India, (May 17, 2017).
  - Spatio-temporal dynamics of air temperature and temperature lapse rate observed in a Sutri Dhaka glacier, Western Himalaya” abstract presented at NCPOR, Goa, India (July 20, 2016).