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Impact of anomalous forest fire on aerosol radiative forcing and snow cover over Himalayan region

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Highlights

- Anomalous fires are observed in April 2016 over Himalaya in last 14 years
- Fire-derived BC/OC aerosols are transported over Himalayan glaciers
- Carbonaceous aerosols could heat up Himalayan atmosphere by 0.04-0.06 K/day
- Meteorological changes & BC absorption lead to ~5-20% decrease in snow cover

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