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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Special Issue on “Remote Sensing of Land Surface Variables over the Tibetan Plateau”

As the "Third Pole of World", the Tibetan Plateau (TP) is essential to the climate change at a continental and global scales due to its significant thermodynamic effects on atmospheric circulation. Analyzing land surface processes over the TP is important for understanding the climate change in the past few decades and its projection in the future. In-depth investigations of the land surface processes over the TP rely on the associated variables (e.g. surface and air temperature, soil moisture, evapotranspiration, snow cover and snow water equivalent) with good quality. However, such variables with long-term temporal coverage and high spatial resolution are not available from ground observations due to the harsh environment of the TP. Fortunately, remote sensing observations from satellite, airborne, and UAV enable the observation and derivation of these land surface variables at various spatial scales. The objective of this Special Issue is to cover the most recent advances in remote sensing of land surface variables over the TP, and also to provide a venue for advanced research in paradigms, methodologies, applications, and analysis of the remotely sensed land surface variables for the TP.

The broad topics include (but are not limited to):

- Land surface radiation balance variables (e.g., surface and air temperature, shortwave and longwave radiation)
- Land surface energy budget variables (e.g., surface heat flux)
- Water cycle related variables (e.g., precipitation, soil moisture and evapotranspiration)
- Cryosphere related variables (e.g., glacier mass balance, freeze/thaw state, snow cover and snow water equivalent)
- Land surface cover parameters (e.g., vegetation coverage, vegetation greenness, phenology, and soil texture)
- Estimation, validation, analysis, and applications of land surface variables

Schedule

September 1, 2022 Submission system opening

March 31, 2023 Submission system closing

Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Remote Sensing of Land Surface Variables over the Tibetan Plateau**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee \$1,250 per paper.

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