Remote Sensing of Night Lights – Beyond DMSP

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Message from the Guest Editors

Dear Colleagues,

Nightlight remote sensing enables monitoring human activity from space. Since the 1990s, the DMSP/OLS sensors have been widely explored to quantify the relationships between nighttime brightness and human activity as well as socio-economic variables. In the last decade, new sensors offer better spatial, temporal and radiometric resolution than DMSP/OLS. This special issue aims to highlight novel research going beyond DMSP/OLS, emphasizing on topics of (but not limited to):

(1) The potential of new sensors to quantify night-time brightness at fine spatial and temporal resolutions; (2) Generation of products from the VIIRS/DNB sensor; (3) The correspondence between ground observations of artificial lights as well as light pollution and space borne measurements of nighttime brightness; (4) The spectral and directional properties of artificial lights; (5) Estimation of light pollution and human health impacts.

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