

LIST OF NOTATIONS

BB	: Black Body
DGPS	: Differential Global Positioning System
DSM	: Digital Surface Model
DTM	: Digital Terrain Model
EMR	: Electromagnetic Radiations
ERDAS	: Earth Resources Data Analysis System
ERTS	: Earth Resources Technology Satellite (LANDSAT)
ETM+	: Enhanced Thematic Mapper
FCC	: False Colour Composite
GCP	: Ground Control Point
GIS	: Geographic Information System
GPS	: Global Positioning System
HRV	: High Resolution Visible
IRS	: Indian Remote Sensing Satellite
KSNDMC	: Karnataka State Natural Disaster Meteorological Centre
LISS	: Linear Imaging Self Scanning
LST(MODIS)	: Daily average value of LST from MODIS data
LU/LC	: Land Use and Land Cover
MIR	: Mid-Infrared
MODIS	: Moderate-resolution Imaging Spectroradiometer
MSS	: Multispectral Scanner
NDVI	: Normalized Difference Vegetation Index
NIR	: Near Infrared
OLI	: Operational Land Imager
PAN	: Panchromatic
RBV	: Return Beam Vidicon
RS	: Remote Sensing
SWIR	: Short Wave Infrared
TIR	: Thermal Infrared
TM	: Thematic Mapper
UHI	: Urban Heat Island

R (λ)	:	Spectral reflectance
E_R (λ)	:	Reflected energy
E_I (λ)	:	Incident energy
λ	:	Wavelength
c	:	Speed of light
k	:	Boltzmann's constant
h	:	Planck's constant
P_{λ} = E_{λ}	:	Spectral emission at wavelength λ
T	:	Absolute temperature
E	:	Total radiant exitance from the surface of a material
s	:	Stefan-Boltzmann constant
M	:	Real exitance
M_b	:	Black-body exitance
e and ϵ	:	Emissivity
λ_m	:	The wavelength at maximum radiant emittance
C	:	Heat Capacity
K	:	Thermal Conductivity
P	:	Thermal Inertia
L_{sensor}	:	Spectral radiance
K1 and K2	:	Prelaunch calibration constants
T_{sensor}	:	Effective at-satellite temperature
L_{ETM}	:	Spectral radiance for ETM+
T_{ETMSurface}	:	Effective at-satellite temperature for ETM+
L_{λ}	:	TOA spectral radiance for LANDSAT-8
M_L	:	Band-specific multiplicative rescaling factor
A_L	:	Band-specific additive rescaling factor
Q_{cal}	:	Quantized and calibrated standard product pixel values
T_{Air}	:	Daily average surface air temperature