Field Name	Documentation	Type
Altitude	Assumed altitude if no DEM is present [km]	Floating point value, 32 bit, default: 0.10, equals 100 m
BRDF_Correction	Empirical BRDF correction with factor (G) according to following equation: $G = \{ \cos(\beta_i) / \cos(\beta_T) \}^b \geq g$ (eq. 1) where: β_i: local solar zenith angle (from metadata, section 0). β_T: threshold for surface reflectance (determined programmatically). b: exponent, set via options below. g: Lower boundary of BRDF correction factor, recommended between 0.2 and 0.25 (see next parameter, below). <u>Options to be selected:</u> 0: no empirical BRDF correction (or flat terrain) 1: correction with cosine of local solar zenith angle (eq. 1 with b=1) 2: correction with sqrt(cos) of local solar zenith angle (eq. 1 with b=1/2) 11: correction with cosine of local solar zenith angle (eq. 1 with b=1), for soil/sand. Vegetation: (eq. 1) but with exponent b=1/3 (λ< 720 nm), and b=3/4 (λ > 720 nm), (”weak” correction). 12: correction with cosine of local solar zenith angle (eq. 1 with b=1), for soil/sand. Vegetation: (eq. 1) but with exponent b=1.0 (λ < 720 nm), and b=3/4 (λ > 720 nm), (”strong” correction), 21: correction with sqrt(cos) of local solar zenith angle (eq. 1 with b=1/2), for soil/sand. Vegetation: (eq. 1) but with exponent b=1/3 (λ < 720 nm), and b=3/4 (λ > 720 nm), (”weak” correction). This is the recommended standard yielding good results in most cases. 22: correction with sqrt(cos) of local solar zenith angle (eq. 1 with b=1/2), for soil/sand. Vegetation: (eq. 1) but with exponent b=1.0 (λ < 720 nm), and b=3/4 (λ > 720 nm, (”strong” correction).	Enumerator 0, 1, 2, 11, 12, 21, 22
BRDF_Lower_Bound	Lower boundary of BRDF correction factor, should be between 0.2 and 0.25.	Float

2.4.10.3 Metadata

- DEM (as specified in the GIPP, will be adapted internally)
- Terrain Shadow Map (calculated internally)