

List of GSIP-v3 parameters

Location	
1.	latitude
2.	longitude
3.	latitude, parallax-corrected using cloud height
4.	longitude, parallax-corrected using cloud height
Zenith and Azimuth Angles	
5.	sensor zenith angle
6.	solar zenith angle
7.	relative azimuth angle
Reflectances, Radiances and Brightness Temperatures	
8.	0.64 micron reflectance
9.	0.64 micron clear composite reflectance
10.	3.9 micron reflectance
11.	3.9 micron emissivity
12.	3.9 micron brightness temperature
13.	6.8 micron radiance
14.	6.8 micron brightness temperature
15.	11 micron radiance
16.	11 micron brightness temperature
17.	13 micron brightness temperature
Cloud Products	
18.	cloud mask (0: clear; 1:probably clear; 2:probably cloudy; 3:cloudy) *
19.	cloud type (0:clear, 1:prob.clear, 2:fog, 3:liquid, 4:supercooled, 5:mixed, 6:opaque_ice-tice, 7:cirrus, 8:overlap, 9:overshoot, 10:unknown, 11:dust, 12:smoke, 13:fire)
20.	cloud layer category (0:clear, 1:low, 2:mid, 3:high)
21.	cloud phase (0:clear, 1:water, 2supercooled:, 3:mixed, 4:ice, 5:unknown)
22.	cloud top temperature
23.	cloud top pressure
24.	cloud water path
25.	cloud top height
26.	cloud optical depth
27.	cloud droplet effective radius
Radiation Products	
28.	shortwave downward radiative flux at surface
29.	shortwave upward radiative flux at surface
30.	shortwave downward diffuse radiative flux at surface
31.	PAR upward diffuse radiative flux at surface
32.	PAR downward radiative flux at surface
33.	PAR downward diffuse radiative flux at surface
34.	shortwave downward radiative flux at TOA
35.	shortwave upward radiative flux at TOA
36.	longwave upward TOA radiative flux (OLR)
37.	longwave downward surface radiative flux
38.	longwave upward surface radiative flux

Radiation Products Diagnostics
39. shortwave downward surface radiative flux QC (bit 0=1: satellite zenith angle > 60 deg; bit 1=1: coastal area or deep inland water; bit 2=1: snow in the pixel; bit 3=1:out-of-range flux; bit 4=1: missing flux retrieval; bit 5=1: less than 3 weeks of data in clear composite reflectance)
Surface Temperature Products
40. surface temperature
41. radiative temperature
Atmosphere and Surface Inputs
42. total column ozone
43. total precipitable water
44. snow fraction

* In earlier data (before 17 UTC on 10/19/2016, day 293) flags are reversed, that is 0:cloudy; 1:probably cloudy; 2:probably clear; 3:clear.