

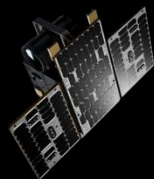


Hyperspectral Data for NASA Earth Sciences

LAUNCH SCHEDULE



Constellation and Sensor Overview



FIREFLIES



HONEYBEES



Wavelength range	470 - 900 nm (VNIR)	470 - 2500 nm (VSWIR)
Total available bands	150 bands	~150 VNIR, ~100 SWIR
Total selectable bands	45 bands	Total: 72, VNIR-46, SWIR-26
GSD	5.36 meters	5 meters
Swath	40 km	10 km SWIR / 30 km VNIR
Orbit	Sun Synchronous Orbit (SSO), 97.65° inclination	Sun Synchronous Orbit (SSO), 97.45° inclination
Altitude	590 km	550 km (TBD)
Equator Crossing Time	10 - 11 AM	10 - 11 AM
Off-nadir angle /slew	+/- 30° (+/-20° recommended)	+/- 30° (+/-20° recommended)
Revisit time	1 - 2 days (based on latitude)	1 - 4 days (based on latitude)
Cloud cover thresholds*	<20%	<20%
Imagery bit depth	16 bit	16 bit

Products / Processing Levels

L1B*

Top of Atmosphere
(TOA) radiance

L1C*

Top of Atmosphere
(TOA) reflectance

L2A

Bottom of Atmosphere
(BOA) reflectance

Default Product

Radiometric corrected

Orthorectified
(camera model and Copernicus DEM)

Atmospheric corrected

WGS84 projection

Geometric corrected

CE90 <5 meters

Image file in geoTIFF | RGB thumbnail | footprint in geoJSON | ENVI header file | metadata XML