Brief Regional Product Descriptions

Component Global Georectified Radiance Product (CGGRP): MI3DRDR, MI3MRDR, MI3QRDR			
Grid	**Field**	**Data Type**	**Description**
GeorectifiedRadianceAverage	Average	FLOAT32 -9999 = fill	Average radiance value, in $Wm^{-2}sr^{-1}\mu m^{-1}$. This is indexed by y, x, camera, band. Camera has 0 = DF, 1 = CF, 2 = BF, 3 = AF, 4 = AN, 5 = AA, 6 = BA, 7 = CA, 8 = DA. Band is 0 = Blue (443 nm), 1 = Green (555 nm), 2 = Red (670 nm), 3 = Infrared (865 nm).
	Average count	INT32	Count of radiances used in the Average field. Same indices as Average.
GeorectifiedRadianceCovariance	Covariance	FLOAT32 0 = fill	Variance and covariance between the radiances, in the units $W^2m^{-4}sr^{-2}\mu m^{-2}$. Contains only the lower triangular part of the symmetric covariance matrix. Indexed by x, y, and a covariance index. For the covariance index, 0 = Variance of the DF Blue, 1 = Covariance of the DF Blue and DF Green, 2 = Variance of DF Green, and so on.
	Covariance count	INT32	Count of the radiance pairs that are used in the Covariance. Same indices as Covariance.
Component Global Aerosol Product (CGAS): MI3DAER, MI3MAER, MI3QAER			
Grid	**Field**	**Data Type**	**Description**
AerosolParameterAverage	Optical depth average	FLOAT32 -9999 = fill	Average of the aerosol optical depth. Green (555 nm) band. Indexed by y, x.
	Optical depth average count	INT32	Count of optical depths used in the Optical depth average.
Component Land Surface Product (CGLS): MI3DLSR, MI3MLSR, MI3QLSR			
Grid	**Field**	**Data Type**	**Description**
LandParameterAverage	DHR average	FLOAT32 -9999 = fill	Average of DHR (Directional Hemispheric Reflectance). Defined as radiance exitance divided by irradiance under illumination from a single direction. Also know as the "black sky" albedo. Indexed by y, x, and band. Band is 0 = Blue (443 nm), 1 = Green (555 nm), 2 = Red (670 nm), 3 = Infrared (865 nm).
	DHR average count	INT32	Count of DHR values used in DHR average. Same indices as DHR average.
	DHRPAR average	FLOAT32 -9999 = fill	Average of DHR integrated over the Photosynthetically Active Radiation (PAR) band.
	DHRPAR average count	INT32	Count of DHRPAR values used in DHRPAR average. Same indices as DHRPAR average.
	DHR Shortwave approximation average	FLOAT32 -9999 = fill	Average of DHR for a broad shortwave band (400 - 2500 nm), approximated from visible bands. Indexed by y, x.

	DHR Shortwave approximation average count	INT32	Count of DHR Shortwave approximation values used in DHR Shortwave approximation average. Same indices as DHR Shortwave approximation average.
	FPAR average	FLOAT32 -9999 = fill	Average of Fractional absorbed Photosynthetically Active Radiation (FPAR). Defined as PAR irradiance absorbed by live vegetation divided by incident PAR irradiance. Indexed by y, x.
	FPAR average count	INT32	Count of FPAR values used in FPAR average. Same indices as FPAR average.
	LAI average	FLOAT32 -9999 = fill	Average of Leaf Area Index (LAI). Indexed by y, x.
	LAI average count	INT32	Count of LAI values used in LAI average. Same indices as LAI average.
	NDVI average	FLOAT32 -9999 = fill	Average of Normalized Difference Vegetation Index (NDVI). Indexed by y, x.
	NDVI average count	INT32	Count of NDVI values used in NDVI average. Same indices as NDVI average.