

ESGSignals® - Field Description

Field		Data Type	Description
SatelliteObservationDate		Date / datetime	Satellite collection timestamp: collection date in mm-dd- yyyy format
LocationID		String / varchar(255)	Unique metal location identifier
Location		String / varchar(255)	Name of the monitored location
Country		String / varchar(255)	Country character codes per ISO 3166
ParentCompany		String / varchar(255)	The parent company name for the corresponding location
CO Concentration	AIR	Double / double	The total atmospheric CO column between the surface and the top of the atmosphere (in molm ⁻²)
Relative CO Concentration	AIR	Double / double	CO concentration for the location of interest divided by the CO concentration of the surrounding region's CO concentration
NO2 Concentration	AIR	Double / double	The total atmospheric NO2 column between the surface and the top of the troposphere (in molm ⁻²)
Relative NO2 Concentration	AIR	Double / double	NO2 concentration for the location of interest divided by the NO2 concentration of the surrounding region's NO2 concentration
SO2 Concentration	AIR	Double / double	The total atmospheric SO2 column between the surface and the top of the atmosphere (in molm ⁻²)
Relative SO2 Concentration	AIR	Double / double	SO2 concentration for the location of interest divided by the SO2 concentration of the surrounding region's SO2 concentration
HCHO Concentration	AIR	Double / double	The total atmospheric HCHO column between the surface and the top of the troposphere (in molm ⁻²)
Relative HCHO Concentration	AIR	Double / double	HCHO concentration for the location of interest divided by the HCHO concentration of the surrounding region's HCHO concentration

Human Impact Percentage (2017)	LAND	Integer / int(11) unsigned	Degree to which the landscape has been modified by human as visible from satellite imagery.
Nearest Land Cover Type (2017)	LAND	String / varchar(255)	The type of Land cover among tree cover, shrub cover, herbaceous vegetation / grassland, cultivated and managed, mosaic: cultivated and managed / natural vegetation, regularly flooded / wetland, urban / built up, snow and ice barren, open water
Land Cover Percentage (2017)	LAND	Integer / int(11) unsigned	Percentage of the above specified Land Cover
Proximity to Land Cover (km) (2017)	LAND	Integer / int(11) unsigned	Distance to the nearest land cover type from location midpoint.
Land Usage	LAND	Integer / int(11) unsigned	Area of Land used in square meters
New Construction	LAND	Integer / int(11) unsigned	The area of new constructions (buildings etc) on site in square meters
Proximity To Community	LAND	Integer / int(11) unsigned	The lowest distance from the storage location to the local community in meters
Water Stress Value (2020 Business as usual)	WATER	Integer / int(11) unsigned	Ratio of total water withdrawals relative to the annual available renewable surface water supplies
Water Stress Category (2020 Business as usual)	WATER	String / varchar(255)	Categorizations of water stress value from Lowest (<10%) to Extremely High (>80%) and 'Arid and low water use' when low water usage, too dry or barren in specified water stress location
Proximity To Water Stress (km)	WATER	Integer / int(11) unsigned	Distance to the nearest water stress region from location mid-point.
Proximity To WildFire (km)	HAZARD	Integer / int(11) unsigned	Distance to the closest wild fire from location mid-point if there's any.
Brightness Of The Fire	HAZARD	Integer / int(11) unsigned	Brightness temperature of pixels in Kelvin. Large brightness values for huge wildfires.
Green Energy Solar Panels	ENERGY	Integer / int(11) unsigned	The area of solar panels installed in square meters
Green Energy Wind Turbines	ENERGY	Integer / int(11) unsigned	The number of wind turbines available on site
Non-Renewable Energy Coal	ENERGY	Integer / int(11) unsigned	The area of coal stored in on-site power plants in square meters
Outdoor Inventory	PRODUCTION	Integer / int(11) unsigned	Total amount of finished products present on site in area (square meters)

Employee Cars	ACTIVITY	Integer / int(11) unsigned	Number of employee cars in parking lot
Containers	ACTIVITY	Integer / int(11) unsigned	Number of containers on site
Trucks	ACTIVITY	Integer / int(11) unsigned	Number of trucks on site
Tippers	ACTIVITY	Integer / int(11) unsigned	Number of tippers (dump trucks) on site