

Field Descriptions

Field names are listed in order of appearance in the data (columns left to right)

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
LocationName		String / varchar(255)	Name of the monitored location
Country		String / varchar(255)	Country character codes per ISO 3166
LocationType		String / varchar(255)	The type of location for the corresponding location
ParentCompany		String / varchar(255)	The parent company name for the corresponding location
MetalType		String / varchar(255)	The type of metal produced in the corresponding location
RegionAerosolIndex	AIR	Double / double	Index measuring layers of aerosols for the region. +ve values indicate presence of UV absorbing aerosols and –ve values indicate non-absorbing aerosols.
LocationAerosolIndex	AIR	Double / double	Index measuring layers of aerosols for the location. +ve values indicate presence of UV absorbing aerosols and –ve values indicate non-absorbing aerosols.
COConcentration	AIR	Double / double	The total atmospheric CO column between the surface and the top of the atmosphere for the specific location (in molm ²)
RelativeCOConcentration	AIR	Double / double	CO concentration for the location of interest divided by the surrounding region's CO concentration
SO2Concentration	AIR	Double / double	The total atmospheric SO2 column between the surface and the top of the atmosphere for the specific location (in molm ²)
RelativeSO2Concentration	AIR	Double / double	SO2 concentration for the location of interest divided by the surrounding region's SO2 concentration
NO2Concentration	AIR	Double / double	The total atmospheric NO2 column between the surface and the top of the atmosphere for the specific location (in molm ²)
RelativeNO2Concentration	AIR	Double / double	NO2 concentration for the location of interest divided by the surrounding region's NO2 concentration
CH4Concentration	AIR	Double / double	The total atmospheric CH4 column between the surface and the top of the atmosphere for the specific location (in molm ²)
RelativeCH4Concentration	AIR	Double / double	CH4 concentration for the location of interest divided by the surrounding region's CH4 concentration

LandCoverType (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
LandCoverPercentage (2017)	LAND	Integer / int(11) unsigned	Percentage of the above specified Land Cover
ProximitytoLandCover (km) (2017)	LAND	Integer / int(11) unsigned	Distance to the nearest land cover type from location midpoint.
LandReclamation	LAND	Integer / int(11) unsigned	Area of Land used in square meters
NewConstruction	LAND	Integer / int(11) unsigned	The area of new constructions (buildings, etc.) on site in square meters
ProximityToCultivatedFields	LAND	Integer / int(11) unsigned	The lowest distance from location to cultivated fields in meters
ProximityToRedListSpecies	LAND	Integer / int(11) unsigned	The lowest distance from location to IUCN red list species
ProximityToProtectedAreas	LAND	Integer / int(11) unsigned	The lowest distance from location to protected areas
ProximityToBiodiversityHotspots	LAND	Integer / int(11) unsigned	The lowest distance from location to key biodiversity hotspots
ProximityToWaterStress	WATER	Integer / int(11) unsigned	The minimum distance in km to the nearest water Stress region from the mid-point of the location if there's any
WaterStressValue [2020BusinessAsUsual]	WATER	Integer / int(11) unsigned	Ratio of total water withdrawals relative to the annual available renewable surface water supplies of the nearest water stressed location
WaterStressCategory [2020BusinessAsUsual]	WATER	String / varchar(255)	WaterStressValue categorized in intervals: Extremely high (>80%), High (40-80%), Medium-high (20-40%), Low-medium (10-20%), Low (<10%), Arid and low water use, No data
ProximityToWildFire	HAZARD	Integer / int(11) Unsigned	The minimum distance in km to the nearest fire risk region from the mid-point of the location if there's any (-99 indicated no wild fire nearby).
BrightnessOfFire	HAZARD	Integer / int(11) Unsigned	Brightness temperature of pixels in Kelvin. Large brightness values for huge wildfires. (-99 indicates no wild fire nearby).
FireScore	HAZARD	Integer / int(11) Unsigned	Values in between 0 and 100, Created using ProximityToWildFire and BrightnessOfFire 0 : least likely to be vulnerable to wildfires 100 : most likely to be vulnerable to wildfires
GreenEnergySolarPanels	ENERGY	Integer / int(11) Unsigned	The area of solar panels installed in square meters
GreenEnergyWindTurbines	ENERGY	Integer / int(11) Unsigned	The number of wind turbines available on site
NonRenewableEnergyCoal	ENERGY	Integer / int(11) Unsigned	The area of coal stored in on-site power plants in square meters

MetalStocks	PRODUCTION	Integer / int(11) unsigned	Total amount of finished products present on site in area (square meters)
Piles	PRODUCTION	Integer / int(11) unsigned	Total amount of piles present on site in area (square meters)
ConcentrateBags	PRODUCTION	Integer / int(11) unsigned	Total amount of concentrate bags present on site in area (square meters)
Anodes	PRODUCTION	Integer / int(11) unsigned	Total amount of anodes present on site in area (square meters)
Cathodes	PRODUCTION	Integer / int(11) unsigned	Total amount of cathodes present on site in area (square meters)
DrillRigs (oil & gas)	PRODUCTION	Integer / int(11) unsigned	Number of drill rigs in monitored location
TankBatteries (oil & gas)	PRODUCTION	Integer / int(11) unsigned	Number of tank batteries in monitored location
Active Wells (oil & gas)	PRODUCTION	Integer / int(11) unsigned	If the well is an active well or not 0 indicates non active wells
WaterPondArea (oil & gas)	PRODUCTION	Integer / int(11) unsigned	The area of the water pond (if any)
OutdoorInventory	PRODUCTION	Integer / int(11) unsigned	The area of outdoor inventory (if any)
EmployeeCars	ACTIVITY	Integer / int(11) unsigned	Number of employee cars in parking lot
Containers	ACTIVITY	Integer / int(11) unsigned	Number of containers on site
Trucks/Trailers	ACTIVITY	Integer / int(11) unsigned	Number of trucks on site
Tippers	ACTIVITY	Integer / int(11) unsigned	Number of tippers (dump trucks) on site