RS Metrics

ESG Signals®

Supplementary Materials

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Overview

ESGSignals® is the industry-leading geospatial analytics platform for providing asset-level, objective, verifiable and comparable environmental and climate physical risk data and metrics for companies. The physical assets are mapped back to its ownership, asset type, sector, country etc. making it possible to conduct; (i) risk profile comparisons for assets with similar attributes, (ii) company, industry, sector level risk evaluation, (iii) baselining and benchmarking, (iv) portfolio screening, monitoring and engagement and more.

While the standard coverage for ESGSignals® is many global public companies with a focus on the most polluting and physical asset-intensive sectors (Energy, Utilities, Materials, Industrials etc.), we also allow the users to 'Bring Your Own Assets' (BYOA) data in a pre-defined format (Latitude, Longitude info. of assets at a minimum) and extract a similar dataset for any public or private company that is not under our current coverage.

Themes Covered

- Land Usage & Land Cover
- Water Stress
- Wildfire Risk
- Heatwave & Coldwave Risk
- Coastal & Riverine Floods
- Hurricanes, Landslides
- Vegetation Indices (e.g. EVI)
- Emissions
- Overlap with Key Biodiversity Areas, World Protected Areas
- Red List Species distribution
- Ecosystem mapping for the assets
- Nature-related impact and dependency materiality mapping for the assets
- Ecosystem / biome specific environmental indicators (soil conditions, ocean water quality, …) & more..

The indicators covered under above themes have different data frequencies depending on the thematic relevance, the type of indicator and the availability of input data sources. Table 1 below shows a high-level summary of the data frequencies by different themes.

RS Metrics is a TNFD (Task Force for Nature-Related Disclosures) Data Catalyst Member who works closely with TNFD in refining its framework.

Key Features

- Objective | verifiable | comparable | timely data
- Physical asset-level granularity with ownership mapping
- Natural capital and biodiversity offering that is closely aligned and evolving with TNFD
- Powered by GCP and Google Earth Engine (GEE)
- Brings together hundreds of open-source, premium, structured, unstructured (geospatial & other) data
- Comparable data across assets, companies, sectors, industries, countries etc.

Market Segments & Use Cases

- Asset Managers: Integration for fundamental, quantitative, and enhanced active investment strategies
- Corporates: Granular environmental sustainability assessment
- Rating Providers: Reference data for ESG ratings & scores
- ESG Ratings and Solutions Providers: Sustainability finance solutions, regulatory and reporting solutions for TNFD, TCFD, SFDR etc.
- Index Providers: Integration for ranked sustainable investment indices and custom benchmarks

Data Access Method

ESGSignals® data can be accessed via an API as (i) a single consolidated table with the key pair as location (asset/site) id and date and / or (ii) separate tables by indicator category which are much smaller in size making it even easier to query.

Table 2 provides the data field descriptions for the consolidated table.

Table 1: Static & Dynamic Nature of Indicators

Indicator / Indicator Group	Frequency
Emission Concentrations (NO2, SO2)	Monthly
Land Cover	Monthly
Fire	Daily
Enhanced Vegetation Index (EVI)	Daily
Rainfall	Daily
Earthquakes	Daily
Annual Hurricanes	Annual
Annual Landslides	Annual
PCI	Annual
Water Stress	-Static- The numbers are repeated for these indicators across the full time range of an asset simply to represent all indicator data in one table
Historical Hurricanes	
Historical Landslides	
Key Biodiversity Areas (KBAs)	
World Protected Areas (WPAs)	
IUCN Red List Species Distribution	
Species Threat Abatement & Restoration (STAR)	
ENCORE Materiality Mapping	
Ecosystem Mapping	
Solar Potential	
Land Usage	
Coastal Inundation	Static with respect to the future year and RCP scenario considered. The numbers are repeated for these indicators across the full time range of an asset simply to represent all indicator data in one table.
Riverine Inundation	
Heatwave	
Coldwave	
Futuristic Rainfall	

ESGSignals® Data Field Descriptions

Table 2: Consolidated Table with All Indicators

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in mm/dd/yyyy format
Asset Information		
LocationID	String / varchar (255)	Unique location identifier
LocationName	String / varchar (255)	Name of the monitored location
LocationType	String / varchar (255)	Type of the monitored location
ParentCompany	String / varchar (255)	The parent company name for the corresponding location. When multiple parent companies are present, all parent companies are recorded separated by a '/'
Sector	String / varchar (255)	GICS sector classification of the parent company. When multiple parent companies are present, sectors corresponding to parent companies are recorded separated by a '/'. If some parent companies do not belong to the MSCI ACWI index, the sector value corresponding to that may be recorded as #NA
Industry	String / varchar (255)	Industry classification of the company
SubIndustry	String / varchar (255)	GICS Sub Industry classification of the company
Country	String / varchar (255)	Country name
Latitude*	Double / double	Asset Location Latitude
Longitude*	Double / double	Asset Location Longitude

Emission Concentrations		
NO2Concentration	Double / double	The monthly mean of total atmospheric NO2 column between the surface and top of the troposphere (in 1e-06 $molm^{-2}$) Data is available from 2018 - 07 -10 0 – No NO2Concentration Null – No Data Null Values correspond to source data being filtered under the following criterion, to remove pixels with QA values less than: • 80% for Ultraviolet Aerosol Index • 75% for the tropospheric_NO2_column_number_density band of NO2 • 50% for all other datasets except for O3 and SO2
RelativeNO2Concentration	Double / double	NO2 concentration for the location of interest divided by the surrounding (within 5km radius) region's NO2 concentration Data is available from 2018 - 07 -10 0 – No Relative NO2Concentration Null – No Data Null Values correspond to source data being filtered under the following criterion, to remove pixels with QA values less than: • 80% for Ultraviolet Aerosol Index • 75% for the tropospheric_NO2_column_number_density band of NO2 • 50% for all other datasets except for O3 and SO2
SO2Concentration	Double / double	The monthly mean of total atmospheric SO2 column between the surface and top of the troposphere (in 1e-06 $molm^{-2}$) Data is available from 2018 - 07 -10 0 – No SO2Concentration Null – No Data Reason for Null Values is because source data has been filtered under the following criterion, • snow_ice < 0.5

		• sulfurdioxide_total_air_mass_factor_polluted > 0.1 • sulfurdioxide_total_vertical_column > -0.001 • qa_value > 0.5 • cloud_fraction_crb < 0.3 • solar_zenith_angle < 60 • The 15km SO2 band is ingested only when solar_zenith_angle < 70
RelativeSO2Concentration	Double / double	SO2 concentration for the location of interest divided by the surrounding (within 5km radius) region's SO2 concentration Data is available from 2018 - 07 -10 0 – No Relative SO2Concentration Null – No Data Reason for Null Values is because source data has been filtered under the following criterion, • snow_ice < 0.5 • sulfurdioxide_total_air_mass_factor_polluted > 0.1 • sulfurdioxide_total_vertical_column > -0.001 • qa_value > 0.5 • cloud_fraction_crb < 0.3 • solar_zenith_angle < 60 • The 15km SO2 band is ingested only when solar_zenith_angle < 70
Water Stress		
WaterStressValue2020	Double / double	Ratio of total water withdrawals relative to the annual available renewable surface water supplies of the nearest water stressed location. 0 – No Water Stress Null – No Data

WaterStressCategoryBusinessAsUsual	String / varchar (255)	WaterStressValue is categorized in intervals as: • Extremely high (>80%), • High (40-80%), • Medium-high (20-40%), • Low-medium (10-20%), • Low (<10%), • Arid and low water use, • No data
ProximityToWaterStress	Double / double	The minimum distance in km to the nearest water basin (if there's any) from the midpoint of the location
WaterStressScore	Double / double	Values in between 0 and 100, created using Proximity to Water Stress and Water Stress Value. 0 – Least likely to be Vulnerable to Water Stressed Area 100 – Most likely to be Vulnerable to Water Stressed Area
Land Usage & Land Cover		
LandUsage	Double / double	Land usage area represented in square kilometers
Bare	Double / double	Land Cover Percentage of Bare Land
Built	Double / double	Land Cover Percentage of Built Land
Crops	Double / double	Land Cover Percentage of Crop Land
FloodedVegetation	Double / double	Land Cover Percentage of Flooded Vegetation
Grass	Double / double	Land Cover Percentage of Grass
ShrubAndScrub	Double / double	Land Cover Percentage of ShrubAndScrub
SnowAndIce	Double / double	Land Cover Percentage of SnowAndIce
Trees	Double / double	Land Cover Percentage of Trees
Water	Double / double	Land Cover Percentage of Water

Unknown	Double / double	Land Cover Percentage that is Unclassified to the above Land Classes
Fire		
BrightnessOfFire	Integer / int(11)	Brightness temperature of pixels in Kelvin. Large brightness values for huge wildfires. Fires within 2000 km are only considered. 0 – No Fire Null – No Data
ProximityToWildfire	Integer / int(11)	The minimum distance in km to the nearest fire risk region (if there's any) from the mid-point of the location 0 – Nearby wildfire Null – No Data
FireRiskScore	Integer / int(11)	Values in between 0 and 100, created using Proximity to WildFire and Brightness of Fire. 0 – Least likely to be Vulnerable to WildFires 100 – Most likely to be Vulnerable to WildFires Null – No Data
Landslides		
HistoricalLandslideOccurrence25Km	Integer / int(11)	Number of Landslides occurred within 2008 to 2017 (10 years), with a buffer zone of 25 km Null – No Landslide Occurrences
HistoricalMaxFatalityCount25Km	Integer / int(11)	Max fatality count corresponding to landslides occurred within 2008 to 2017 (10 years), with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the HistoricalLandslideOccurance25Km column is not null)
HistoricalMeanFatalityCount25Km	Integer / int(11)	Mean fatality count corresponding to landslides occurred within 2008 to 2017 (10 years), with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the HistoricalLandslideOccurance25Km column is not null)

AnnualLandslideOccurrence25Km	Integer / int(11)	Number of Hurricanes occurred annually, with a buffer zone of 25 km Null – No Landslide Occurrences
AnnualMaxFatalityCount25Km	Integer / int(11)	Maximum fatality count corresponding to the landslides occurred annually, with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the AnnualLandslideOccurance25Km column is not null)
AnnualMeanFatalityCount25Km	Integer / int(11)	Mean fatality count corresponding to the landslides occurred annually, with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the AnnualLandslideOccurance25Km column is not null)
Hurricanes		
HistoricalHurricaneOccurrence250Km	Integer / int(11)	Number of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 250 km
HistoricalMaxStormSpeed250Km	Integer / int(11)	Maximum storm speed of the Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 250 km
HistoricalMeanStormSpeed250Km	Integer / int(11)	Mean storm speed of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 250 km
HistoricalHurricaneOccurrence500Km	Integer / int(11)	Number of Hurricanes occurred within 2007 to 2017 (10 years) with a buffer zone of 500 km
HistoricalMaxStormSpeed500Km	Integer / int(11)	Maximum storm speed of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 500 km
HistoricalMeanStormSpeed500Km	Integer / int(11)	Mean storm speed of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 500 km

AnnualHurricaneOccurrence250Km	Integer / int(11)	Number of Hurricanes occurred annually, with a buffer zone of 250 km
AnnualMaxStormSpeed250Km	Integer / int(11)	Maximum storm speed of the Hurricanes occurred annually, with a buffer zone of 250 km
AnnualMeanStormSpeed250Km	Integer / int(11)	Mean storm speed of the Hurricanes occurred annually, with a buffer zone of 250 km
AnnualHurricaneOccurrence500Km	Integer / int(11)	Number of Hurricanes occurred annually, with a buffer zone of 500 km
AnnualMaxStormSpeed500Km	Integer / int(11)	Maximum storm speed of the Hurricanes occurred annually, with a buffer zone of 500 km
AnnualMeanStormSpeed500Km	Integer / int(11)	Mean storm speed of the Hurricanes occurred annually, with a buffer zone of 500 km
Earthquakes		
Date	Date / datetime	Date relevant to the observation in mm/dd/yyyy format
LocationID	String / varchar (255)	Unique location identifier
EarthquakeCount	Integer / int(11)	Number of earthquakes affected the specific asset in that specific date
LandslideCount	Integer / int(11)	Number of earthquakes that occurred due to a landslide on that day, which affected that asset.
MineCollapseCount	Integer / int(11)	Number of earthquakes that occurred due to a Mine Collapse on that day, which affected that asset.
MiningExplosionCount	Integer / int(11)	Number of earthquakes that occurred due to a Mining Explosion on that day, which affected that asset.
VolcanicEruptionCount	Integer / int(11)	Number of earthquakes that occurred due to a Volcanic Eruption on that day, which affected that asset.
MinMagnitude	Double / double	Minimum magnitude value of the earthquakes that affected the specific asset on the specific date.

MinMagnitudeType	String / varchar (255)	Magnitude type corresponding to the minimum magnitude value.
MaxMagnitude	Double / double	Maximum magnitude value of the earthquakes that affected the specific asset on the specific date.
MaxMagnitudeType	String / varchar (255)	Magnitude type corresponding to the maximum magnitude value.
MinDepth	Double / double	Minimum depth value of the earthquakes that affected the specific asset on the specific date.
MaxDepth	Double / double	Minimum depth value of the earthquakes that affected the specific asset on the specific date.
NearestEventDistance	Double / double	The distance to the earthquake which happened closest to the asset on that day.
FurthestEventDistance	Double / double	The distance to the earthquake which happened farthest to the asset on that day.
Heat & Cold Wave		
HeatwaveRiskScore2025RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2025 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2025RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2025 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2050RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2050 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave

		100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2050RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2050 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2075RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2075 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2075RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2075 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2100RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2100 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data

HeatwaveRiskScore2100RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2100 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
ColdwaveRiskScore2025RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2025 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2025RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2025 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2050RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2050 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2050RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2050 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data

ColdwaveRiskScore2075RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2075 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2075RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2075 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2100RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2100 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2100RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2100 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
WPAs & KBAs		
ClosestKBA	String / varchar(255)	Closest world key biodiversity area
LocatedWithinKBA	Integer / int(11)	Whether the asset is located within a key biodiversity area 0 – The asset is not located within a key biodiversity area 1 – The asset is located within a key biodiversity area

ProximityToClosestKBA	Double / double	Distance in km to the closest key biodiversity area from the midpoint of the asset polygon
ClosestWPA	String / varchar(255)	Closest world protected area
LocatedWithinWPA	Integer / int(11)	Whether the asset is located within a world protected area 0 – The asset is not located within a world protected area 1 – The asset is located within a world protected area
ProximityToClosestWPA	Double / double	Distance in km to the closest world protected area from the midpoint of the asset polygon
NumOfKBAsWithin1km	Integer / int(11)	Number of key biodiversity areas that fall within a buffer radius of 1km from the midpoint of the asset polygon
OverlappingAreaOfKBAsWithin1km	Double / double	Area captured by key biodiversity areas in square km, within a buffer radius of 1km from the midpoint of the asset polygon
NumOfWPAsWithin1km	Integer / int(11)	Number of world protected areas that fall within a buffer radius of 1km from the midpoint of the asset polygon
OverlappingAreaOfWPAsWithin1km	Double / double	Area captured by world protected areas in square km, within a buffer radius of 1km from the midpoint of the asset polygon
NumOfKBAsWithin10km	Integer / int(11)	Number of key biodiversity areas that fall within a buffer radius of 10km from the midpoint of the asset polygon
OverlappingAreaOfKBAsWithin10km	Double / double	Area captured by key biodiversity areas in square km, within a buffer radius of 10km from the midpoint of the asset polygon
NumOfWPAsWithin10km	Integer / int(11)	Number of world protected areas that fall within a buffer radius of 10km from the midpoint of the asset polygon
OverlappingAreaOfWPAsWithin10km	Double / double	Area captured by world protected areas in square km, within a buffer radius of 10km from the midpoint of the asset polygon

NumOfKBAsWithin50km	Integer / int(11)	Number of key biodiversity areas that fall within a buffer radius of 50km from the midpoint of the asset polygon
OverlappingAreaOfKBAsWithin50km	Double / double	Area captured by key biodiversity areas in square km, within a buffer radius of 50km from the midpoint of the asset polygon
NumOfWPAsWithin50km	Integer / int(11)	Number of world protected areas that fall within a buffer radius of 50km from the midpoint of the asset polygon
OverlappingAreaOfWPAsWithin50km	Double / double	Area captured by world protected areas in square km, within a buffer radius of 50km from the midpoint of the asset polygon
STAR		
TotalThreatAbatementScore5km	Double / double	This represents the summed scores of the proportion of each species' habitat range present, weighted by the species' IUCN Red List status. 0 - 0.1 – Very Low 0.1 - 1 – Low 1 - 10 – Medium 10 - 100 – High 100 - 1000 – Very High
TotalRestorationScore5km	Double / double	This shows the potential contribution towards reduction of global species extinction risk through restoration actions in each Area of Interest. 0 - 0.1 – Very Low 0.1 - 1 – Low 1 - 10 – Medium 10 - 100 – High 100 - 1000 – Very High
IUCN Red List Species		
TotalSpeciesCount1km	Integer / int(11)	Total number of Threatened Species that fall within a buffer radius of 1km
SpeciesCR1km	Integer / int(11)	Percentage of Critically Endangered Species that fall within a buffer radius of 1km

SpeciesEN1km	Integer / int(11)	Percentage of Endangered Species that fall within a buffer radius of 1km
SpeciesVU1km	Integer / int(11)	Percentage of Vulnerable Species that fall within a buffer radius of 1km
SpeciesNT1km	Integer / int(11)	Percentage of Near Threatened Species that fall within a buffer radius of 1km
SpeciesLC1km	Integer / int(11)	Percentage of Least Concern Species that fall within a buffer radius of 1km
SpeciesEX1km	Integer / int(11)	Percentage of Extinct Species that fall within a buffer radius of 1km
SpeciesEW1km	Integer / int(11)	Percentage of Extinct in the Wild Species that fall within a buffer radius of 1km
SpeciesDD1km	Integer / int(11)	Percentage of Data Deficient Species that fall within a buffer radius of 1km
SpeciesTypeCount1km	Integer / int(11)	Types of species categories that fall within a buffer radius of 1km
TotalSpeciesCount10km	Integer / int(11)	Total number of Threatened Species that fall within a buffer radius of 10km
SpeciesCR10km	Integer / int(11)	Percentage of Critically Endangered Species that fall within a buffer radius of 10km
SpeciesEN10km	Integer / int(11)	Percentage of Endangered Species that fall within a buffer radius of 10km
SpeciesVU10km	Integer / int(11)	Percentage of Vulnerable Species that fall within a buffer radius of 10km
SpeciesNT10km	Integer / int(11)	Percentage of Near Threatened Species that fall within a buffer radius of 10km
SpeciesLC10km	Integer / int(11)	Percentage of Least Concern Species that fall within a buffer radius of 10km
SpeciesEX10km	Integer / int(11)	Percentage of Extinct Species that fall within a buffer radius of 10km

SpeciesEW10km	Integer / int(11)	Percentage of Extinct in the Wild Species that fall within a buffer radius of 10km
SpeciesDD10km	Integer / int(11)	Percentage of Data Deficient Species that fall within a buffer radius of 10km
SpeciesTypeCount10km	Integer / int(11)	Types of species categories that fall within a buffer radius of 10km
TotalSpeciesCount50km	Integer / int(11)	Total number of Threatened Species that fall within a buffer radius of 50km
SpeciesCR50km	Integer / int(11)	Percentage of Critically Endangered Species that fall within a buffer radius of 50km
SpeciesEN50km	Integer / int(11)	Percentage of Endangered Species that fall within a buffer radius of 50km
SpeciesVU50km	Integer / int(11)	Percentage of Vulnerable Species that fall within a buffer radius of 50km
SpeciesNT50km	Integer / int(11)	Percentage of Near Threatened Species that fall within a buffer radius of 50km
SpeciesLC50km	Integer / int(11)	Percentage of Least Concern Species that fall within a buffer radius of 50km
SpeciesEX50km	Integer / int(11)	Percentage of Extinct Species that fall within a buffer radius of 50km
SpeciesEW50km	Integer / int(11)	Percentage of Extinct in the Wild Species that fall within a buffer radius of 50km
SpeciesDD50km	Integer / int(11)	Percentage of Data Deficient Species that fall within a buffer radius of 50km
SpeciesTypeCount50km	Integer / int(11)	Types of species categories that fall within a buffer radius of 50km
Deforestation		

EnhancedVegetationIndex	Double / double	Rate of vegetation that varies from -1 to +1 . Positive values indicate the presence of vegetation (with greater values indicating healthier vegetation) and negative values indicates lack of vegetation (water/rock) Null – No Data
Coastal Inundation		
CoastalInundation2030RCP45ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0317001343
CoastalInundation2030RCP45ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0678997040
CoastalInundation2030RCP45ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows.

		Global Minimum – 0 Global Maximum - 8.1238994598
CoastalInundation2050RCP45ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.3710556030
CoastalInundation2050RCP45ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.4315547943
CoastalInundation2050RCP45ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.6134300232
CoastalInundation2080RCP45ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data

		Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.4908638000
CoastalInundation2080RCP45ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.6110639572
CoastalInundation2080RCP45ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.7842636108
CoastalInundation2030RCP45ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.2669372559
CoastalInundation2030RCP45ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data

		Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3031368256
CoastalInundation2030RCP45ReturnPeriod50 Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3591375351
CoastalInundation2050RCP45ReturnPeriod50 Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.7115926743
CoastalInundation2050RCP45ReturnPeriod50 Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.7720918655
CoastalInundation2050RCP45ReturnPeriod50 Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation

		Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.8573923111
CoastalInundation2080RCP45ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.7348251343
CoastalInundation2080RCP45ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.8550262451
CoastalInundation2080RCP45ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.0282258987
CoastalInundation2030RCP45ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years.

		0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5004377365
CoastalInundation2030RCP45ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5366382599
CoastalInundation2030RCP45ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5926380157
CoastalInundation2050RCP45ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.9537525177
CoastalInundation2050RCP45ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP

		scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.0142526627
CoastalInundation2050RCP45ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.0995521545
CoastalInundation2080RCP45ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.9769859314
CoastalInundation2080RCP45ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.0971860886
CoastalInundation2080RCP45ReturnPeriod100Percentile95	Double / double	

		95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.2703857422
CoastalInundation2030RCP85ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0340995789
CoastalInundation2030RCP85ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0721998215
CoastalInundation2030RCP85ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.1275997162

CoastalInundation2050RCP85ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.3915548325
CoastalInundation2050RCP85ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.4618549347
CoastalInundation2050RCP85ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.6562309265
CoastalInundation2080RCP85ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.5795640945

CoastalInundation2080RCP85ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.7242641449
CoastalInundation2080RCP85ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.9321632385
CoastalInundation2030RCP85ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.2693367004
CoastalInundation2030RCP85ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3074378967

CoastalInundation2030RCP85ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3628368378
CoastalInundation2050RCP85ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.7320919037
CoastalInundation2050RCP85ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.8023920059
CoastalInundation2050RCP85ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.9001922607

CoastalInundation2080RCP85ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.8235254288
CoastalInundation2080RCP85ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.9682254791
CoastalInundation2080RCP85ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.1761255264
CoastalInundation2030RCP85ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5028381348

CoastalInundation2030RCP85ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5409374237
CoastalInundation2030RCP85ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5963382721
CoastalInundation2050RCP85ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.9742527008
CoastalInundation2050RCP85ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.0445528030

CoastalInundation2050RCP85ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.1423530579
CoastalInundation2080RCP85ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.0656862259
CoastalInundation2080RCP85ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.2103862762
CoastalInundation2080RCP85ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.4182853699

Riverine Inundation		
RiverineInundation2030RCP45ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2030RCP45ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2030RCP45ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2050RCP45ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32

RiverineInundation2050RCP45ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2050RCP45ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2080RCP45ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2080RCP45ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2080RCP45ReturnPeriod100	Double / double	

		Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2030RCP85ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2030RCP85ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2030RCP85ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32

RiverineInundation2050RCP85ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2050RCP85ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2050RCP85ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2080RCP85ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32

RiverineInundation2080RCP85ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2080RCP85ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
Futuristic Rainfall		
AnnualAccumilatedRainfall2030RCP45	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2030 and the RCP scenario 4.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 957.1666870117188
AnnualAccumilatedRainfall2030RCP85	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2030 and the RCP scenario 8.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 947.0833129882812

AnnualAccumilatedRainfall2050RCP45	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2050 and the RCP scenario 4.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 961.1666870117188
AnnualAccumilatedRainfall2050RCP85	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2050 and the RCP scenario 8.5 0 – No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 952.3333129882812
AnnualAccumilatedRainfall2080RCP45	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2080 and the RCP scenario 4.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum – 954.00
AnnualAccumilatedRainfall2080RCP85	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2080 and the RCP scenario 8.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum – 966.00

Rainfall		
Precipitation	Double / double	Total rainfall value in mm Global Minimum - 0 mm
PCI		
PCI	Double / double	PCI (Precipitation Concentration Index) value (No units) Global Minimum - 0 mm
RainfallCategory	String / varchar(255)	Rainfall Category based on the PCI value PCI ≤ 10: Uniform Precipitation PCI>10 ≤ 15: Moderate Precipitation PCI>16 ≤ 20: Irregular Precipitation PCI >20: Strong Irregularity of Precipitation
Solar Potential		
SolarPotential	Double / double	Photovoltaic power potential (PVOUT) in [kWh/kWp] Null – No Data
Ecosystem Mapping		
Land	Integer / int (11)	Whether Land is a primary or secondary ecosystem of the given asset. 0 – Land is not a primary or secondary ecosystem 1 – Land is a primary ecosystem 2 – Land is a secondary ecosystem
Marine	Integer / int (11)	Whether the Ocean is a primary or secondary ecosystem of the given asset. 0 – Ocean is not a primary or secondary ecosystem 1 – Ocean is a primary ecosystem 2 – Ocean is a secondary ecosystem

Freshwater	Integer / int(11)	Whether the Freshwater is a primary or secondary ecosystem of the given asset. 0 – Freshwater is not a primary or secondary ecosystem 1 – Freshwater is a primary ecosystem 2 – Freshwater is a secondary ecosystem
Subterranean	Integer / int(11)	Whether the Subterranean is a primary ecosystem of the given asset. 0 –Subterranean is not a primary ecosystem 1 –Subterranean is a primary ecosystem
BiomeLand	String / varchar(255)	Name of the land biome that the asset intersects with.
BiomeMarine	String / varchar(255)	Name of the marine biome that the asset intersects with.
BiomeFreshwater	String / varchar(255)	Name of the freshwater biome that the asset intersects with.
BiomeSubterranean	String / varchar(255)	Name of the subterranean biome that the asset intersects with.
ENCORE Based Impact and Dependency Materiality for Each Asset		
ProductionProcess	String / varchar(255)	The level at which the links with the environment are assessed.
Impact Materialities		

Disturbances	String / varchar(255)	The potential impact on disturbances, such as decibels and duration of noise, lumens and duration of light, at site of impact. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
FreshwaterEcosystemUse	String / varchar(255)	The potential impact on freshwater ecosystem areas which are necessary to provide ecosystem services. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
GHGEmissions	String / varchar(255)	The potential impact on GreenHouse Gas Emissions. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
MarineEcosystemUse	String / varchar(255)	The potential impact on areas of aquaculture, seabed mining etc. by type. VH – Very high impact H – High impact M – Medium L – Low VL – Very Low N\A – Not Applicable
NonGHGAirPollutants	String / varchar(255)	The potential impact on non GreenHouse Gas air pollutants. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

OtherResourceUse	String / varchar(255)	The potential impact on the volume of mineral extracted, wild-caught fish by species, number of wild-caught mammals by species etc. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
SoilPollutants	String / varchar(255)	The potential impact on soil pollutants. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
SolidWaste	String / varchar(255)	The potential impact on solid waste. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
TerrestrialEcosystemUse	String / varchar(255)	The potential impact on the areas of agriculture, forest plantation and open cast mine by type. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

WaterPollutants	String / varchar(255)	The potential impact on water pollutants. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterUse	String / varchar(255)	The potential impact on the usage of surface water, ground water etc. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Dependency Materialities		
AnimalBasedEnergy	String / varchar(255)	The potential importance of animal-based energy. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
BioRemediation	String / varchar(255)	The potential importance of bio-remediation. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

BufferingAndAttenuationOfMassFlows	String / varchar(255)	The potential importance of buffering and attenuation of mass flows. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
ClimateRegulation	String / varchar(255)	The potential importance of climate regulation VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
DilutionByAtmosphereAndEcosystems	String / varchar(255)	The potential importance of dilution by atmosphere and ecosystems VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
DiseaseControl	String / varchar(255)	The potential importance of disease control VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
FibresAndOtherMaterials	String / varchar(255)	The potential importance of fibers and other materials VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

Filtration	String / varchar(255)	The potential importance of filtration. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
FloodAndStormProtection	String / varchar(255)	The potential importance of flood and storm protection. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
GeneticMaterials	String / varchar(255)	The potential importance of genetic materials VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
GroundWater	String / varchar(255)	The potential importance of groundwater. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
MaintainNurseryHabitats	String / varchar(255)	The potential importance of maintaining nursery habitats. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

MassStabilisationAndErosionControl	String / varchar(255)	The potential importance of mass stabilization and erosion control VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
MediationOfSensoryImpacts	String / varchar(255)	The potential importance of mediation of sensory impacts VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
PestControl	String / varchar(255)	The potential importance of pest control. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Pollination	String / varchar(255)	The potential importance of pollination. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
SoilQuality	String / varchar(255)	The potential importance of soil quality. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

SurfaceWater	String / varchar(255)	The potential importance of surface water. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Ventilation	String / varchar(255)	The potential importance of ventilation VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterFlowMaintenance	String / varchar(255)	The potential importance of water flow maintenance. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterQuality	String / varchar(255)	The potential importance of water quality. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

*Availability of these fields depend on the plan you subscribe to.

Table 3: Individual Tables with Theme Specific Indicators

Table 3.1: Asset Information

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
LocationName	String / varchar (255)	Name of the monitored location
LocationType	String / varchar (255)	Type of the monitored location
ParentCompany	String / varchar (255)	The parent company name for the corresponding location. When multiple parent companies are present, all parent companies are recorded separated by a '/'
Sector	String / varchar (255)	GICS sector classification of the parent company. When multiple parent companies are present, sectors corresponding to parent companies are recorded separated by a '/'. If some parent companies do not belong to the MSCI ACWI index, the sector value corresponding to that may be recorded as #NA
Industry	String / varchar (255)	Industry classification of the company
SubIndustry	String / varchar (255)	GICS sub-industry classification of the company
Country	String / varchar (255)	Country name
Latitude*	Double / double	Asset Location Latitude
Longitude*	Double / double	Asset Location Longitude

*Availability of these fields depend on the plan you subscribe to.

Table 3.2: Emissions

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in mm/yyyy format
LocationID	String / varchar (255)	Unique location identifier
NO2Concentration	Double / double	The monthly mean of total atmospheric NO2 column between the surface and top of the troposphere (in 1e-06 $molm^{-2}$) Data is available from 2018 - 07 -10 0 – No NO2Concentration Null – No Data Null Values correspond to source data being filtered under the following criterion, to remove pixels with QA values less than: • 80% for Ultraviolet Aerosol Index • 75% for the tropospheric_NO2_column_number_density band of NO2 • 50% for all other datasets except for O3 and SO2
RelativeNO2Concentration	Double / double	NO2 concentration for the location of interest divided by the surrounding (within 5km radius) region's NO2 concentration Data is available from 2018 - 07 -10 0 – No Relative NO2Concentration Null – No Data Null Values correspond to source data being filtered under the following criterion, to remove pixels with QA values less than: • 80% for Ultraviolet Aerosol Index • 75% for the tropospheric_NO2_column_number_density band of NO2 • 50% for all other datasets except for O3 and SO2

SO2Concentration	Double / double	The monthly mean of total atmospheric SO2 column between the surface and top of the troposphere (in 1e-06 $molm^{-2}$) Data is available from 2018 - 07 -10 0 – No SO2Concentration Null – No Data Reason for Null Values is because source data has been filtered under the following criterion, ● snow_ice < 0.5 ● sulfurdioxide_total_air_mass_factor_polluted > 0.1 ● sulfurdioxide_total_vertical_column > -0.001 ● qa_value > 0.5 ● cloud_fraction_crb < 0.3 ● solar_zenith_angle < 60 ● The 15km SO2 band is ingested only when solar_zenith_angle < 70
RelativeSO2Concentration	Double / double	SO2 concentration for the location of interest divided by the surrounding (within 5km radius) region's SO2 concentration Data is available from 2018 - 07 -10 0 – No Relative SO2Concentration Null – No Data Reason for Null Values is because source data has been filtered under the following criterion, ● snow_ice < 0.5 ● sulfurdioxide_total_air_mass_factor_polluted > 0.1 ● sulfurdioxide_total_vertical_column > -0.001 ● qa_value > 0.5 ● cloud_fraction_crb < 0.3 ● solar_zenith_angle < 60 ● The 15km SO2 band is ingested only when solar_zenith_angle < 70

Table 3.3: Water

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
WaterStressValue2020	Double / double	Ratio of total water withdrawals relative to the annual available renewable surface water supplies of the nearest water stressed location. 0 – No Water Stress Null – No Data
WaterStressCategoryBusinessAsUsual	String / varchar (255)	WaterStressValue is categorized in intervals as: • Extremely high (>80%), • High (40-80%), • Medium-high (20-40%), • Low-medium (10-20%), • Low (<10%), • Arid and low water use, • No data
ProximityToWaterStress	Double / double	The minimum distance in km to the nearest water basin (if there's any) from the midpoint of the location
WaterStressScore	Double / double	Values in between 0 and 100, created using Proximity to Water Stress and Water Stress Value. 0 – Least likely to be Vulnerable to Water Stressed Area 100 – Most likely to be Vulnerable to Water Stressed Area

Table 3.4: Land Usage

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
LandUsage	Double / double	Land usage area represented in square kilometers

Table 3.5: Land Cover

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in mm/yyyy format
LocationID	String / varchar (255)	Unique location identifier
Bare	Double / double	Land Cover Percentage of Bare Land
Built	Double / double	Land Cover Percentage of Built Land
Crops	Double / double	Land Cover Percentage of Crop Land
FloodedVegetation	Double / double	Land Cover Percentage of Flooded Vegetation
Grass	Double / double	Land Cover Percentage of Grass
ShrubAndScrub	Double / double	Land Cover Percentage of ShrubAndScrub
SnowAndIce	Double / double	Land Cover Percentage of SnowAndIce
Trees	Double / double	Land Cover Percentage of Trees
Water	Double / double	Land Cover Percentage of Water
Unknown	Double / double	Land Cover Percentage that is Unclassified to the above Land Classes

Table 3.6: Fire

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in mm/dd/yyyy format
LocationID	String / varchar (255)	Unique location identifier
BrightnessOfFire	Integer / int(11)	Brightness temperature of pixels in Kelvin. Large brightness values for huge wildfires. Fires within 2000 km are only considered. 0 – No Fire Null – No Data
ProximityToWildfire	Integer / int(11)	The minimum distance in km to the nearest fire risk region (if there's any) from the mid-point of the location 0 – Nearby wildfire Null – No Data

FireRiskScore	Integer / int(11)	Values in between 0 and 100, created using Proximity to WildFire and Brightness of Fire. 0 – Least likely to be Vulnerable to WildFires 100 – Most likely to be Vulnerable to WildFires Null – No Data

Table 3.7: Historical Landslides

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
HistoricalLandslideOccurrence25Km	Integer / int(11)	Number of Landslides occurred within 2008 to 2017 (10 years), with a buffer zone of 25 km Null – No Landslide Occurrences
HistoricalMaxFatalityCount25Km	Integer / int(11)	Max fatality count corresponding to landslides occurred within 2008 to 2017 (10 years), with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the HistoricalLandslideOccurance25Km column is not null)
HistoricalMeanFatalityCount25Km	Integer / int(11)	Mean fatality count corresponding to landslides occurred within 2008 to 2017 (10 years), with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the HistoricalLandslideOccurance25Km column is not null)

Table 3.8: Annual Landslides

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in yyyy format
LocationID	String / varchar (255)	Unique location identifier
AnnualLandslideOccurrence25Km	Integer / int(11)	Number of Hurricanes occurred annually, with a buffer zone of 25 km Null – No Landslide Occurrences
AnnualMaxFatalityCount25Km	Integer / int(11)	Maximum fatality count corresponding to the landslides occurred annually, with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the AnnualLandslideOccurance25Km column is not null)
AnnualMeanFatalityCount25Km	Integer / int(11)	Mean fatality count corresponding to the landslides occurred annually, with a buffer zone of 25 km Null – No Landslide Occurrences / No data (if there are null values for rows where the AnnualLandslideOccurance25Km column is not null)

Table 3.9: Historical Hurricanes

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
HistoricalHurricaneOccurrence250Km	Integer / int(11)	Number of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 250 km
HistoricalMaxStormSpeed250Km	Integer / int(11)	Maximum storm speed of the Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 250 km
HistoricalMeanStormSpeed250Km	Integer / int(11)	Mean storm speed of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 250 km
HistoricalHurricaneOccurrence500Km	Integer / int(11)	Number of Hurricanes occurred within 2007 to 2017 (10 years) with a buffer zone of 500 km
HistoricalMaxStormSpeed500Km	Integer / int(11)	Maximum storm speed of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 500 km
HistoricalMeanStormSpeed500Km	Integer / int(11)	Mean storm speed of Hurricanes occurred within 2007 to 2017 (10 years), with a buffer zone of 500 km

Table 3.10: Annual Hurricanes

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in yyyy format
LocationID	String / varchar (255)	Unique location identifier
AnnualHurricaneOccurrence250Km	Integer / int(11)	Number of Hurricanes occurred annually, with a buffer zone of 250 km
AnnualMaxStormSpeed250Km	Integer / int(11)	Maximum storm speed of the Hurricanes occurred annually, with a buffer zone of 250 km
AnnualMeanStormSpeed250Km	Integer / int(11)	Mean storm speed of the Hurricanes occurred annually, with a buffer zone of 250 km
AnnualHurricaneOccurrence500Km	Integer / int(11)	Number of Hurricanes occurred annually, with a buffer zone of 500 km
AnnualMaxStormSpeed500Km	Integer / int(11)	Maximum storm speed of the Hurricanes occurred annually, with a buffer zone of 500 km
AnnualMeanStormSpeed500Km	Integer / int(11)	Mean storm speed of the Hurricanes occurred annually, with a buffer zone of 500 km

Table 3.11: Earthquakes

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in mm/dd/yyyy format
LocationID	String / varchar (255)	Unique location identifier
EarthquakeCount	Integer / int(11)	Number of earthquakes affected the specific asset in that specific date
LandslideCount	Integer / int(11)	Number of earthquakes that occurred due to a landslide on that day, which affected that asset.
MineCollapseCount	Integer / int(11)	Number of earthquakes that occurred due to a Mine Collapse on that day, which affected that asset.
MiningExplosionCount	Integer / int(11)	Number of earthquakes that occurred due to a Mining Explosion on that day, which affected that asset.
VolcanicEruptionCount	Integer / int(11)	Number of earthquakes that occurred due to a Volcanic Eruption on that day, which affected that asset.
MinMagnitude	Double / double	Minimum magnitude value of the earthquakes that affected the specific asset on the specific date.
MinMagnitudeType	String / varchar (255)	Magnitude type corresponding to the minimum magnitude value.
MaxMagnitude	Double / double	Maximum magnitude value of the earthquakes that affected the specific asset on the specific date.
MaxMagnitudeType	String / varchar (255)	Magnitude type corresponding to the maximum magnitude value.
MinDepth	Double / double	Minimum depth value of the earthquakes that affected the specific asset on the specific date.
MaxDepth	Double / double	Minimum depth value of the earthquakes that affected the specific asset on the specific date.
NearestEventDistance	Double / double	The distance to the earthquake which happened closest to the asset on that day.
FurthestEventDistance	Double / double	The distance to the earthquake which happened farthest to the asset on that day.

Table 3.12: Heat and Cold Wave

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
HeatwaveRiskScore2025RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2025 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2025RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2025 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2050RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2050 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2050RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2050 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data

HeatwaveRiskScore2075RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2075 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2075RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2075 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2100RCP45	Double / double	Expected sensitivity of each asset to have heatwave days in 2100 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
HeatwaveRiskScore2100RCP85	Double / double	Expected sensitivity of each asset to have heatwave days in 2100 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to Heatwave 100 – Most likely to be Vulnerable to Heatwave Null – No Data
ColdwaveRiskScore2025RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2025 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data

ColdwaveRiskScore2025RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2025 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2050RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2050 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2050RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2050 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2075RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2075 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2075RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2075 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data

ColdwaveRiskScore2100RCP45	Double / double	Expected sensitivity of each asset to have coldwave days in 2100 under RCP 4.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data
ColdwaveRiskScore2100RCP85	Double / double	Expected sensitivity of each asset to have coldwave days in 2100 under RCP 8.5 scenario 0 – Least likely to be Vulnerable to coldwave 100 – Most likely to be Vulnerable to coldwave Null – No Data

Table 3.13: WPAs and KBAs

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
ClosestKBA	String / varchar(255)	Closest world key biodiversity area
LocatedWithinKBA	Integer / int(11)	Whether the asset is located within a key biodiversity area 0 – The asset is not located within a key biodiversity area 1 – The asset is located within a key biodiversity area
ProximityToClosestKBA	Double / double	Distance in km to the closest key biodiversity area from the midpoint of the asset polygon
ClosestWPA	String / varchar(255)	Closest world protected area
LocatedWithinWPA	Integer / int(11)	Whether the asset is located within a world protected area 0 – The asset is not located within a world protected area 1 – The asset is located within a world protected area
ProximityToClosestWPA	Double / double	Distance in km to the closest world protected area from the midpoint of the asset polygon

NumOfKBAsWithin1km	Integer / int(11)	Number of key biodiversity areas that fall within a buffer radius of 1km from the midpoint of the asset polygon
OverlappingAreaOfKBAsWithin1km	Double / double	Area captured by key biodiversity areas in square km, within a buffer radius of 1km from the midpoint of the asset polygon
NumOfWPAsWithin1km	Integer / int(11)	Number of world protected areas that fall within a buffer radius of 1km from the midpoint of the asset polygon
OverlappingAreaOfWPAsWithin1km	Double / double	Area captured by world protected areas in square km, within a buffer radius of 1km from the midpoint of the asset polygon
NumOfKBAsWithin10km	Integer / int(11)	Number of key biodiversity areas that fall within a buffer radius of 10km from the midpoint of the asset polygon
OverlappingAreaOfKBAsWithin10km	Double / double	Area captured by key biodiversity areas in square km, within a buffer radius of 10km from the midpoint of the asset polygon
NumOfWPAsWithin10km	Integer / int(11)	Number of world protected areas that fall within a buffer radius of 10km from the midpoint of the asset polygon
OverlappingAreaOfWPAsWithin10km	Double / double	Area captured by world protected areas in square km, within a buffer radius of 10km from the midpoint of the asset polygon
NumOfKBAsWithin50km	Integer / int(11)	Number of key biodiversity areas that fall within a buffer radius of 50km from the midpoint of the asset polygon
OverlappingAreaOfKBAsWithin50km	Double / double	Area captured by key biodiversity areas in square km, within a buffer radius of 50km from the midpoint of the asset polygon
NumOfWPAsWithin50km	Integer / int(11)	Number of world protected areas that fall within a buffer radius of 50km from the midpoint of the asset polygon
OverlappingAreaOfWPAsWithin50km	Double / double	Area captured by world protected areas in square km, within a buffer radius of 50km from the midpoint of the asset polygon

Table 3.14: STAR

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
TotalThreatAbatementScore5km	Double / double	This represents the summed scores of the proportion of each species' habitat range present, weighted by the species' IUCN Red List status. 0 - 0.1 – Very Low 0.1 - 1 – Low 1 - 10 – Medium 10 - 100 – High 100 - 1000 – Very High
TotalRestorationScore5km	Double / double	This shows the potential contribution towards reduction of global species extinction risk through restoration actions in each Area of Interest. 0 - 0.1 – Very Low 0.1 - 1 – Low 1 - 10 – Medium 10 - 100 – High 100 - 1000 – Very High

Table 3.15: IUCN

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
TotalSpeciesCount1km	Integer / int(11)	Total number of Threatened Species that fall within a buffer radius of 1km
SpeciesCR1km	Integer / int(11)	Percentage of Critically Endangered Species that fall within a buffer radius of 1km
SpeciesEN1km	Integer / int(11)	Percentage of Endangered Species that fall within a buffer radius of 1km
SpeciesVU1km	Integer / int(11)	Percentage of Vulnerable Species that fall within a buffer radius of 1km
SpeciesNT1km	Integer / int(11)	Percentage of Near Threatened Species that fall within a buffer radius of 1km
SpeciesLC1km	Integer / int(11)	Percentage of Least Concern Species that fall within a buffer radius of 1km
SpeciesEX1km	Integer / int(11)	Percentage of Extinct Species that fall within a buffer radius of 1km
SpeciesEW1km	Integer / int(11)	Percentage of Extinct in the Wild Species that fall within a buffer radius of 1km
SpeciesDD1km	Integer / int(11)	Percentage of Data Deficient Species that fall within a buffer radius of 1km
SpeciesTypeCount1km	Integer / int(11)	Types of species categories that fall within a buffer radius of 1km
TotalSpeciesCount10km	Integer / int(11)	Total number of Threatened Species that fall within a buffer radius of 10km
SpeciesCR10km	Integer / int(11)	Percentage of Critically Endangered Species that fall within a buffer radius of 10km

SpeciesEN10km	Integer / int(11)	Percentage of Endangered Species that fall within a buffer radius of 10km
SpeciesVU10km	Integer / int(11)	Percentage of Vulnerable Species that fall within a buffer radius of 10km
SpeciesNT10km	Integer / int(11)	Percentage of Near Threatened Species that fall within a buffer radius of 10km
SpeciesLC10km	Integer / int(11)	Percentage of Least Concern Species that fall within a buffer radius of 10km
SpeciesEX10km	Integer / int(11)	Percentage of Extinct Species that fall within a buffer radius of 10km
SpeciesEW10km	Integer / int(11)	Percentage of Extinct in the Wild Species that fall within a buffer radius of 10km
SpeciesDD10km	Integer / int(11)	Percentage of Data Deficient Species that fall within a buffer radius of 10km
SpeciesTypeCount10km	Integer / int(11)	Types of species categories that fall within a buffer radius of 10km
TotalSpeciesCount50km	Integer / int(11)	Total number of Threatened Species that fall within a buffer radius of 50km
SpeciesCR50km	Integer / int(11)	Percentage of Critically Endangered Species that fall within a buffer radius of 50km
SpeciesEN50km	Integer / int(11)	Percentage of Endangered Species that fall within a buffer radius of 50km
SpeciesVU50km	Integer / int(11)	Percentage of Vulnerable Species that fall within a buffer radius of 50km
SpeciesNT50km	Integer / int(11)	Percentage of Near Threatened Species that fall within a buffer radius of 50km
SpeciesLC50km	Integer / int(11)	Percentage of Least Concern Species that fall within a buffer radius of 50km
SpeciesEX50km	Integer / int(11)	Percentage of Extinct Species that fall within a buffer radius of 50km

SpeciesEW50km	Integer / int(11)	Percentage of Extinct in the Wild Species that fall within a buffer radius of 50km
SpeciesDD50km	Integer / int(11)	Percentage of Data Deficient Species that fall within a buffer radius of 50km
SpeciesTypeCount50km	Integer / int(11)	Types of species categories that fall within a buffer radius of 50km

Table 3.16: EVI (Enhanced Vegetation Index)

Data Field	Data Type	Description
Date	Date / datetime	Date relevant to the observation in mm/dd/yyyy format
LocationID	String / varchar (255)	Unique location identifier
EnhancedVegetationIndex	Double / double	Rate of vegetation that varies from -1 to +1 . Positive values indicate the presence of vegetation (with greater values indicating healthier vegetation) and negative values indicates lack of vegetation (water/rock) Null – No Data

Table 3.17: Coastal Inundation

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
CoastalInundation2030RCP45ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0317001343
CoastalInundation2030RCP45ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0678997040
CoastalInundation2030RCP45ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.1238994598
CoastalInundation2050RCP45ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.3710556030

CoastalInundation2050RCP45ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.4315547943
CoastalInundation2050RCP45ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.6134300232
CoastalInundation2080RCP45ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.4908638000
CoastalInundation2080RCP45ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.6110639572

CoastalInundation2080RCP45ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.7842636108
CoastalInundation2030RCP45ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years . 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.2669372559
CoastalInundation2030RCP45ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3031368256
CoastalInundation2030RCP45ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3591375351

CoastalInundation2050RCP45ReturnPeriod50 Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.7115926743
CoastalInundation2050RCP45ReturnPeriod50 Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.7720918655
CoastalInundation2050RCP45ReturnPeriod50 Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.8573923111
CoastalInundation2080RCP45ReturnPeriod50 Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.7348251343

CoastalInundation2080RCP45ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.8550262451
CoastalInundation2080RCP45ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.0282258987
CoastalInundation2030RCP45ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5004377365
CoastalInundation2030RCP45ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data

		Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5366382599
CoastalInundation2030RCP45ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5926380157
CoastalInundation2050RCP45ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.9537525177
CoastalInundation2050RCP45ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.0142526627
CoastalInundation2050RCP45ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data

		Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.0995521545
CoastalInundation2080RCP45ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.9769859314
CoastalInundation2080RCP45ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years. 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.0971860886
CoastalInundation2080RCP45ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.2703857422
CoastalInundation2030RCP85ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation

		Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0340995789
CoastalInundation2030RCP85ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.0721998215
CoastalInundation2030RCP85ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.1275997162
CoastalInundation2050RCP85ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.3915548325
CoastalInundation2050RCP85ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years

		0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.4618549347
CoastalInundation2050RCP85ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.6562309265
CoastalInundation2080RCP85ReturnPeriod25Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.5795640945
CoastalInundation2080RCP85ReturnPeriod25Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.7242641449
CoastalInundation2080RCP85ReturnPeriod25Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP

		scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.9321632385
CoastalInundation2030RCP85ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.2693367004
CoastalInundation2030RCP85ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3074378967
CoastalInundation2030RCP85ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.3628368378

CoastalInundation2050RCP85ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.7320919037
CoastalInundation2050RCP85ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.8023920059
CoastalInundation2050RCP85ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.9001922607
CoastalInundation2080RCP85ReturnPeriod50Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.8235254288

CoastalInundation2080RCP85ReturnPeriod50Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 11.9682254791
CoastalInundation2080RCP85ReturnPeriod50Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.1761255264
CoastalInundation2030RCP85ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5028381348
CoastalInundation2030RCP85ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5409374237

CoastalInundation2030RCP85ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 8.5963382721
CoastalInundation2050RCP85ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 9.9742527008
CoastalInundation2050RCP85ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.0445528030
CoastalInundation2050RCP85ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data

		Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 10.1423530579
CoastalInundation2080RCP85ReturnPeriod100Percentile5	Double / double	5th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.0656862259
CoastalInundation2080RCP85ReturnPeriod100Percentile50	Double / double	50th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.2103862762
CoastalInundation2080RCP85ReturnPeriod100Percentile95	Double / double	95th percentile of the Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 12.4182853699

Table 3.18: Riverine Inundation

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
RiverineInundation2030RCP45ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2030RCP45ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2030RCP45ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2050RCP45ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32

RiverineInundation2050RCP45ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2050RCP45ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2080RCP45ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2080RCP45ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32

RiverineInundation2080RCP45ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 4.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum – 32
RiverineInundation2030RCP85ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2030RCP85ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2030RCP85ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2030 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2050RCP85ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation

		Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2050RCP85ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2050RCP85ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2050 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2080RCP85ReturnPeriod25	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 25 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32
RiverineInundation2080RCP85ReturnPeriod50	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 50 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32

RiverineInundation2080RCP85ReturnPeriod100	Double / double	Inundation depth in meters (m) for the year 2080 and the RCP scenario 8.5 when the flood return period is 100 years 0 - No Inundation Null – No Data Global Minimum and Maximum values in meters (m) are as follows. Global Minimum – 0 Global Maximum - 32

Table 3.19: Futuristic Rainfall

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
AnnualAccumilatedRainfall2030RCP45	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2030 and the RCP scenario 4.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 957.1666870117188
AnnualAccumilatedRainfall2030RCP85	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2030 and the RCP scenario 8.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 947.0833129882812
AnnualAccumilatedRainfall2050RCP45	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2050 and the RCP scenario 4.5

		0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 961.1666870117188
AnnualAccumilatedRainfall2050RCP85	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2050 and the RCP scenario 8.5 0 – No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum - 952.3333129882812
AnnualAccumilatedRainfall2080RCP45	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2080 and the RCP scenario 4.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum – 954.00
AnnualAccumilatedRainfall2080RCP85	Double / double	Annual Average Accumulated Rainfall in millimeters (mm) for the year 2080 and the RCP scenario 8.5 0 - No Rainfall Null – No Data Global Minimum and Maximum values in millimeters (mm) are as follows. Global Minimum – 0 Global Maximum – 966.00

Table 3.20: Rainfall

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
Date	Date / datetime	Date relevant to the observation in mm/dd/yyyy format
Precipitation	Double / double	Total rainfall value in mm

Table 3.21: PCI

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
Date	Date / datetime	Date relevant to the observation in yyyy format
PCI	Double / double	Annual PCI (Precipitation Concentration Index) based on daily precipitation data
RainfallCategory	String / varchar (255)	Rainfall categories based on annual PCI values

Table 3.22: Solar Potential

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
SolarPotential	Double / double	Photovoltaic power potential (PVOUT) in [kWh/kWp]

Table 3.23: Ecosystem Mapping

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
Land	Integer / int(11)	Whether Land is a primary or secondary ecosystem of the given asset. 0 – Land is not a primary or secondary ecosystem 1 – Land is a primary ecosystem 2 – Land is a secondary ecosystem
Marine	Integer / int(11)	Whether the Ocean is a primary or secondary ecosystem of the given asset. 0 – Ocean is not a primary or secondary ecosystem 1 – Ocean is a primary ecosystem 2 – Ocean is a secondary ecosystem
Freshwater	Integer / int(11)	Whether the Freshwater is a primary or secondary ecosystem of the given asset. 0 – Freshwater is not a primary or secondary ecosystem 1 – Freshwater is a primary ecosystem 2 – Freshwater is a secondary ecosystem
Subterranean	Integer / int(11)	Whether the Subterranean is a primary ecosystem of the given asset. 0 –Subterranean is not a primary ecosystem 1 –Subterranean is a primary ecosystem
BiomeLand	String / varchar(255)	Name of the land biome that the asset intersects with.
BiomeMarine	String / varchar(255)	Name of the marine biome that the asset intersects with.
BiomeFreshwater	String / varchar(255)	Name of the freshwater biome that the asset intersects with.
BiomeSubterranean	String / varchar(255)	Name of the subterranean biome that the asset intersects with.

Table 3.24: ENCORE Mapping

Data Field	Data Type	Description
LocationID	String / varchar (255)	Unique location identifier
ProductionProcess	String / varchar(255)	The level at which the links with the environment are assessed.
Impact Materialities		
Disturbances	String / varchar(255)	The potential impact on disturbances, such as decibels and duration of noise, lumens and duration of light, at site of impact. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
FreshwaterEcosystemUse	String / varchar(255)	The potential impact on freshwater ecosystem areas which are necessary to provide ecosystem services. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
GHGEmissions	String / varchar(255)	The potential impact on GreenHouse Gas Emissions. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

MarineEcosystemUse	String / varchar(255)	The potential impact on areas of aquaculture, seabed mining etc. by type. VH – Very high impact H – High impact M – Medium L – Low VL – Very Low N\A – Not Applicable
NonGHGAirPollutants	String / varchar(255)	The potential impact on non GreenHouse Gas air pollutants. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
OtherResourceUse	String / varchar(255)	The potential impact on the volume of mineral extracted, wild-caught fish by species, number of wild-caught mammals by species etc. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
SoilPollutants	String / varchar(255)	The potential impact on soil pollutants. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
SolidWaste	String / varchar(255)	The potential impact on solid waste. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

TerrestrialEcosystemUse	String / varchar(255)	The potential impact on the areas of agriculture, forest plantation and open cast mine by type. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterPollutants	String / varchar(255)	The potential impact on water pollutants. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterUse	String / varchar(255)	The potential impact on the usage of surface water, ground water etc. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Dependency Materialities		
AnimalBasedEnergy	String / varchar(255)	The potential importance of animal-based energy. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

BioRemediation	String / varchar(255)	The potential importance of bioremediation. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
BufferingAndAttenuationOfMassFlows	String / varchar(255)	The potential importance of buffering and attenuation of mass flows. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
ClimateRegulation	String / varchar(255)	The potential importance of climate regulation VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
DilutionByAtmosphereAndEcosystems	String / varchar(255)	The potential importance of dilution by atmosphere and ecosystems VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
DiseaseControl	String / varchar(255)	The potential importance of disease control VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

FibresAndOtherMaterials	String / varchar(255)	The potential importance of fibers and other materials VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Filtration	String / varchar(255)	The potential importance of filtration. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
FloodAndStormProtection	String / varchar(255)	The potential importance of flood and storm protection. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
GeneticMaterials	String / varchar(255)	The potential importance of genetic materials VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
GroundWater	String / varchar(255)	The potential importance of groundwater. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

MaintainNurseryHabitats	String / varchar(255)	The potential importance of maintaining nursery habitats. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
MassStabilisationAndErosionControl	String / varchar(255)	The potential importance of mass stabilization and erosion control VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
MediationOfSensoryImpacts	String / varchar(255)	The potential importance of mediation of sensory impacts VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
PestControl	String / varchar(255)	The potential importance of pest control. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Pollination	String / varchar(255)	The potential importance of pollination. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

SoilQuality	String / varchar(255)	The potential importance of soil quality. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
SurfaceWater	String / varchar(255)	The potential importance of surface water. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
Ventilation	String / varchar(255)	The potential importance of ventilation VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterFlowMaintenance	String / varchar(255)	The potential importance of water flow maintenance. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable
WaterQuality	String / varchar(255)	The potential importance of water quality. VH – Very high impact H – High impact M – Medium impact L – Low impact VL – Very low impact Null – Not Applicable

ENCORE: Exploring Natural Capital Opportunities, Risks and Exposure. [On-line], [June 2022], Cambridge, UK: the Natural Capital Finance Alliance. DOI: https://doi.org/10.34892/dz3x-y059