# Geospatial dataset requirements by method and application type

| Dataset

|  |  |
| --- | --- |
| Key | Application type |
| R | **Registration** |
| V | **Vary project area** |
| C | **Crediting** |

 | Type | Dataset definition | Avoided Clearing of Native Regrowth  | Avoided Deforestation | Blue Carbon (Tidal Restoration)  | Designated Verified Carbon Standard Projects | Emissions Abatement through Savanna Fire Management  | Estimating Sequestration of Carbon in Soil Using Default Values  | Estimation of Soil Carbon Sequestration using Measurement and Models  | Human-Induced Regeneration of a Permanent Even-Aged Native Forest | Measurement Based Methods for New Farm Forestry Plantations | Measurement of Soil Carbon Sequestration in Agricultural Systems | Native Forest from Managed Regrowth | Plantation Forestry  | Quantifying Carbon Sequestration by Permanent Environmental Plantings using RMT | Quantifying Carbon Sequestration by Permanent Mallee Plantings using RMT | Reducing Greenhouse Gas Emissions from Fertiliser in Irrigated Cotton | Reduction of Greenhouse Gas Emissions through Early Dry Season Savanna Burning  | Reforestation and Afforestation | Reforestation by Environmental or Mallee Plantings - FullCAM | Savanna Fire Management - Emissions Avoidance | Savanna Fire Management - Sequestration and Emissions Avoidance | Sequestering Carbon in Soils in Grazing Systems |
| Project area | Polygon | The area of land on which the project has been, is being, or is to be, carried out. | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** | **RV** |
| Project extent map | Polygon | Land identified as impacted land for a tidal restoration project in a current hydrological assessment for the project made under section 15, which meets the requirements of the Supplement  |  |  | **RV** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crediting period tidal inundation map | Polygon | Land identified as part of a hydrological assessment as impacted land for a tidal restoration project in accordance with the Supplement requirements and relating to crediting period under the method |  |  | **RV** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Permanence period tidal inundation maps | Polygon | Land identified as part of a hydrological assessment as impacted land for a tidal restoration project in accordance with the Supplement requirements and relating to permanence period under the method |  |  | **RV** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project start tidal inundation map | Polygon | A map identifying the projected spatial extent of land that will become impacted at the completion of eligible project activities |  |  | **RV** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Candidate carbon estimation area | Polygon | Eligible areas demonstrating where project activities are to occur.  |  |  |  |  |  |  |  | **RV** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm locations | Polygon | Geospatial map of any farms (within the meaning of section 20C of the CFI Rule) that are wholly or partly within the proposed project area of the project, for regeneration projects that are not notifiable regeneration projects |  |  |  |  |  |  |  | **RV** |  |  | **RV** |  |  |  |  |  |  |  |  |  |  |
| Carbon estimation area | Polygon | Areas where the project mechanism is being implemented. For some methods, these are referred to as Stratum/Strata. | **RVC** | **C** | **C** | **C** |  | **C** | **C** | **C** | **C** | **C** | **C** | **RVC** | **C** | **C** |  |  | **C** | **C** |  |  | **C** |
| Model point/Model point location | Points | Locations used in Reforestation Modelling Tool (RMT) or FullCAM for the purpose of modelling carbon abatement | **C** |  |  |  |  |  |  | **C** |  |  | **C** | **C** | **C** | **C** |  |  |  | **C** |  |  |  |
| Exclusion area | Polygons | Land in the project area where the project mechanism is not implemented or excluded under method requirements. |  | **C** |  |  |  | **C** | **C** | **C[[1]](#footnote-2)** |  | **C** | **C** |  | **C** | **C** |  |  |  | **C** |  |  | **C** |
| Clearing Buffer | Polygons | Land meeting clearing buffer requirements under the Avoided Deforestation method |  | **C** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil core locations | Points | Coordinate locations of soil cores that is measured for soil carbon using laboratory measurements or laboratory calibrated in-field sensors |  |  |  |  |  |  | **C** |  |  | **C** |  |  |  |  |  |  |  |  |  |  | **C** |
| Emission accounting areas | Polygons | Declared areas of emissions that must be accounted for in abatement calculations. |  |  |  |  |  | **C** | **C** |  |  | **C** |  |  |  |  |  |  |  |  |  |  | **C** |
| Strata areas | Polygons | The soil carbon sampling design requires CEAs be divided into at least three strata.  |  |  |  |  |  | **C** | **C** |  |  | **C** |  |  |  |  |  |  |  |  |  |  | **C** |
| Vegetation Fuel  | Raster | Classified raster that identifies eligible vegetation that will be used by SavBat to calculate emission reductions as part of Savana burning method project crediting |  |  |  |  | **C** |  |  |  |  |  |  |  |  |  |  | **C** |  |  | **C** | **C** |  |

# Mandatory attribute requirements for geospatial datasets

| Dataset | Feature requirements | Geometry | Required attributes[[2]](#footnote-3) |
| --- | --- | --- | --- |
| No attributes required[[3]](#footnote-4) | CEA\_ID | SAMPLE\_ID | EMISS\_ID | STRATUM\_ID | VEGETATION\_FUEL |
|  | Alphanumeric (max length 100 char) | Alphanumeric (max length 100 char) | Alphanumeric (max length 100 char) | Alphanumeric (max length 100 char) | Integer values [0-254] |
| Project area | Multiple features allowed | Polygon | Yes |  |  |  |  |  |
| Candidate carbon estimation area | Multiple features allowed | Polygon |  | Yes |  |  |  |  |
| Farm locations | Multiple features allowed | Polygon | Yes |  |  |  |  |  |
| Carbon estimation area[[4]](#footnote-5) | Multiple features allowed | Polygon |  | Yes |  |  |  |  |
| Model point/Model point location | Multiple features allowed | Points |  | Yes |  |  |  |  |
| Exclusion area | Single feature expected | Polygons | Yes |  |  |  |  |  |
| Clearing Buffer | Single feature expected | Polygons | Yes |  |  |  |  |  |
| Soil core locations | Multiple features allowed | Points |  | Yes | Yes |  |  |  |
| Emission accounting areas | Multiple features allowed | Polygons |  | Yes |  | Yes |  |  |
| Strata areas | Multiple features allowed | Polygons |  | Yes |  |  | Yes |  |
| Vegetation Fuel  |  | Raster |  |  |  |  |  | Yes |

1. Exclusions areas requirements vary between compilations. [↑](#footnote-ref-2)
2. In additional these required attributes, further non-mandatory attributes may be provided in your geospatial dataset. [↑](#footnote-ref-3)
3. No additional attributes are required for these dataset types, apart from geometry. [↑](#footnote-ref-4)
4. Carbon estimation areas provided in accordance with the [CFI Mapping Guidelines](https://www.dcceew.gov.au/climate-change/publications/carbon-farming-initiative-cfi-mapping-guidelines) (version 5) must provide additional attributes (see section 4.4 Data description and attribute information). Additional attributes may be required for specific methodology determinations or supplements to a methodology determination. [↑](#footnote-ref-5)