**Dataset associated with Data in Brief publication:**

“Data on the Physicochemical Characteristics and Texture Classification of Soil in Bornean Tropical Heath Forests affected by exotic *Acacia mangium*.”

Authors: Salwana Md. Jaafar and Rahayu Sukmaria Sukri

See publication for more details about these data.

**Data available in one format:** comma-separated values (CSV)

**GENERAL INFORMATION**

Number of datasets: 3 CSV files -

1. **GPS** **– Revised** - with coordinates GPS (WGS 84 system, in degrees minutes decimal format) of all study plots
2. **Soil physicochemical properties** - provides details on soil physical, chemical properties and nutrient concentration of the three habitats studied which includes concentrations of total nitrogen (N), phosphorus (P), magnesium (Mg), calcium (Ca), potassium (K), exchangeable Mg, exchangeable Ca, exchangeable K, available P, pH values, gravimetric water content (GWC) and organic matter (OM), analyzed at the two different soil depths (0 – 15 cm and 30 – 5- cm depths).
3. **Soil texture classification** – provides details on soil texture classification of the three-habitat studied which includes the proportion of clay, silt and sand, analyzed at the two different soil depths (0 – 15 cm and 30 – 5- cm depths).

**Field collection:** April 2015

1. **GPS**

|  |  |
| --- | --- |
| **Column label** | **Column description** |
| Forest\_type | The forest from which the samples were obtained (Kerangas) |
| Habitat\_type | The habitat from which the samples were obtained (Intact/Invaded/Plantation) |
| Plot\_name | Unique identification code for the study plot |
| Latitude | Approximate centre point decimal latitude of the study plot in GPS coordinates. |
| Longitude | Approximate centre point decimal longitude of the study plot in GPS coordinates. |

1. **Soil physicochemical properties**

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| --- | --- |
| **Column label** | **Column description** |
| Habitat\_type | The habitat from which the samples were obtained (Intact/Invaded/Plantation) |
| Plot\_name | Unique identification code for the study plot |
| Subplot\_name | Unique identification code for the study subplot |
| Soil\_depth | Either 0 – 15 cm or 30 – 50 cm depths |
| Nitrogen | Total Nitrogen concentration of soil in mg/g |
| Phosphorus | Total Phosphorus concentration of soil in mg/g |
| Magnesium | Total Magnesium concentration of soil in mg/g |
| Calcium | Total Calcium concentration of soil in mg/g |
| Potassium | Total Potassium concentration of soil in mg/g |
| Exchangeable\_magnesium | Exchangeable Magnesium concentration of soil in mg/g |
| Exchangeable\_calcium | Exchangeable calcium concentration of soil in mg/g |
| Exchangeable\_potassium | Exchangeable potassium concentration of soil in mg/g |
| Available\_phosphorus | Available phosphorus concentration of soil in mg/g |
| pH | pH value of soil |
| Gravimetric\_water\_content | Gravimetric water content of soil in % |
| Organic\_matter | Organic matter content of soil in % |

1. **Soil texture classification**

|  |  |
| --- | --- |
| **Column label** | **Column description** |
| Habitat\_type | The habitat from which the samples were obtained (Intact/Invaded/Plantation) |
| Plot\_name | Unique identification code for the study plot |
| Subplot\_name | Unique identification code for the study subplot |
| Soil\_depth | Either 0 – 15 cm or 30 – 50 cm depths |
| Clay | Proportion of clay in soil samples in % |
| Silt | Proportion of silt in soil samples in % |
| Sand | Proportion of sand in soil samples in % |
| Texture\_classification | Soil texture classification following USDA Soil Texture Triangle |