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| **Name** | **Description** | |
| 1. Content Citation |  | |
| 1.1 Title | Supporting data of the paper Sasmito et al. Mangrove blue carbon stocks and dynamics are controlled by hydro-geomorphic setting and land-use. Submitted to Global Change Biology. | |
| 1.2 Publication date | In preparation | |
| 1.3 Originator |  | |
| 1.3.1 Name | Sigit Deni Sasmito | |
| 1.3.2 Organization | 1. RIEL-Charles Darwin University; 2. Center for International Forestry Research | |
| 1.3.3 Homepage | http://cdu.ed.au; http://cifor.cgiar.org | |
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| 1.4 Publisher | na | |
| 1.4.1 Journal | na | |
| 1.4.2 Volume | na | |
| 1.4.3 Pages | na | |
| 1.4.4 Link | na | |
| 1.5 Metadata contact | Same as Originator | |
| 2. Content description | Dataset used in Sasmito et al. Mangrove blue carbon stocks and dynamics are controlled by hydro-geomorphic setting and land-use. Submitted to Global Change Biology. | |
| 2.1 Abstract | The supporting information contains five datasets. Each dataset represent different land use, macroscale and hydro-period typology. Arguni Bay, Buruway, and Etna Bay represent undisturbed mangrove. Kaimana City consist of undisturbed mangrove and shrimp pond. Meanwhile, Bintuni Bay describe harvested, regenerated (5, 10, 25 yr old), and undisturbed mangrove.  All the datasets explained soil depth, bulk density, percent carbon, carbon density and soil carbon stocks | |
| 2.2 Data presentation | Spreadsheets | |
| 2.3 Specific content |  | |
|  |  | |
| 2.3.1 **SWAMP Data-Soil carbon-Arguni Bay-West Papua-2015** | | |
| 2.3.1.1 General info | | |
| 2.3.1.1.1 No ID | No ID |  |
| 2.3.1.1.2 General information | General information; site name, sampling year, latitude, longitude, country, land use, or cover type, area sampled. Topography, disturbance, personel trained, research objectives, principle contact, protocol used, associated publication, local partner, data available, latest data modification |  |
| 2.3.1.1.3 Description | Specific description | http://id.agrisemantics.org/gacs/C2939 |
| 2.3.1.2 Data | | |
| 2.3.1.2.1 No ID | Number ID |  |
| 2.3.1.2.2 Site ID | Site ID |  |
| 2.3.1.2.3 Latitude | Latitude; decimal degree | http://id.agrisemantics.org/gacs/C7389 |
| 2.3.1.2.4 Longitude | Longitude; decimal degree | http://id.agrisemantics.org/gacs/C30792 |
| 2.3.1.2.5 Macroscale typology | Macroscale; tidal estuary |  |
| 2.3.1.2.6 Hydroperiod typology | Hydro-period; Interior |  |
| 2.3.1.2.7 Plot | Plot | http://id.agrisemantics.org/gacs/C3354 |
| 2.3.1.2.8 Sub-plot | Sub-plot |  |
| 2.3.1.2.9 Depth interval | Depth interval; cm |  |
| 2.3.1.2.10 Collected sample depth | Depth range; cm |  |
| 2.3.1.2.11 Soil organic matter depth | Soil organic matter depth; cm | http://id.agrisemantics.org/gacs/C1248 |
| 2.3.1.2.12 Bag No | Bag Number |  |
| 2.3.1.2.13 Wet weight | Wet weight; gr |  |
| 2.3.1.2.14 Dry weight | Dry weight; gr |  |
| 2.3.1.2.15 Auger volume | Auger volume; cm3 | http://id.agrisemantics.org/gacs/C3399 |
| 2.3.1.2.16 Bulk density | Bulk density; g cm-3 | http://id.agrisemantics.org/gacs/C9295 |
| 2.3.1.2.17 Carbon content | Carbon content; % |  |
| 2.3.1.2.18 Nitrogen content | Nitrogen content; % | http://id.agrisemantics.org/gacs/C990 |
| 2.3.1.2.19 C/N ratio | Carbon and nitrogen ratio | http://id.agrisemantics.org/gacs/C7590 |
| 2.3.1.2.20 Carbon density | Carbon density; mg cm-3 |  |
| 2.3.1.2.21 Carbon stocks | Carbon stocks; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
| 2.3.1.2.22 Salinity | Salinity; ppt | http://id.agrisemantics.org/gacs/C1578 |
| 2.3.1.2.23 pH | pH | http://id.agrisemantics.org/gacs/C168 |
| 2.3.1.2.24 Temperature | Temperature; celcius degree | http://id.agrisemantics.org/gacs/C105 |
| 2.3.1.2.25 Soil C mass profile | Soil carbon mass profile; Mg C ha-1 |  |
| 2.3.1.2.26 C-stocks normal all | Carbon stocks normal all; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
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| 2.3.2 **SWAMP Data-Soil carbon-Bintuni Bay-West Papua-2018** | | |
| 2.3.2.1 General info | | |
| 2.3.2.1.1 No ID | No ID |  |
| 2.3.2.1.2 General information | General information; site name, sampling year, latitude, longitude, country, land use, or cover type, area sampled. Topography, disturbance, personel trained, research objectives, principle contact, protocol used, associated publication, local partner, data available, latest data modification |  |
| 2.3.2.1.3 Description | Specific description | http://id.agrisemantics.org/gacs/C2939 |
| 2.3.2.2 Data | | |
| 2.3.2.2.1 No ID | Number ID |  |
| 2.3.2.2.2 Site ID | Site ID |  |
| 2.3.2.2.3 Latitude | Latitude; decimal degree | http://id.agrisemantics.org/gacs/C7389 |
| 2.3.2.2.4 Longitude | Longitude; decimal degree | http://id.agrisemantics.org/gacs/C30792 |
| 2.3.2 .2.5 Macroscale typology | Macroscale; tidal estuary |  |
| 2.3.2.2.6 Hydroperiod typology | Hydro-period; Interior |  |
| 2.3.2.2.7 Plot | Plot | http://id.agrisemantics.org/gacs/C3354 |
| 2.3.2.2.8 Sub-plot | Sub-plot |  |
| 2.3.2.2.9 Depth interval | Depth interval; cm |  |
| 2.3.2.2.10 Collected sample depth | Depth range; cm |  |
| 2.3.2.2.11 Soil organic matter depth | Soil organic matter depth; cm | http://id.agrisemantics.org/gacs/C1248 |
| 2.3.2.2.12 Bag No | Bag Number |  |
| 2.3.2.2.13 Wet weight | Wet weight; gr |  |
| 2.3.2.2.14 Dry weight | Dry weight; gr |  |
| 2.3.2.2.15 Auger volume | Auger volume; cm3 | http://id.agrisemantics.org/gacs/C3399 |
| 2.3.2.2.16 Bulk density | Bulk density; g cm-3 | http://id.agrisemantics.org/gacs/C9295 |
| 2.3.2.2.17 Carbon content | Carbon content; % |  |
| 2.3.2.2.18 Nitrogen content | Nitrogen content; % | http://id.agrisemantics.org/gacs/C990 |
| 2.3.2.2.19 C/N ratio | Carbon and nitrogen ratio | http://id.agrisemantics.org/gacs/C7590 |
| 2.3.2.2.20 Carbon density | Carbon density; mg cm-3 |  |
| 2.3.2.2.21 Carbon stocks | Carbon stocks; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
| 2.3.2.2.22 Salinity | Salinity; ppt | http://id.agrisemantics.org/gacs/C1578 |
| 2.3.2.2.23 pH | pH | http://id.agrisemantics.org/gacs/C168 |
| 2.3.2.2.24 Temperature | Temperature; celcius degree | http://id.agrisemantics.org/gacs/C105 |
| 2.3.2.2.25 Soil C mass profile | Soil carbon mass profile; Mg C ha-1 |  |
| 2.3.2.2.26 C-stocks normal all | Carbon stocks normal all; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
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| 2.3.3 **SWAMP Data-Soil carbon-Buruway-West Papua-2016** | | |
| 2.3.3.1 General info | | |
| 2.3.3.1.1 No ID | No ID |  |
| 2.3.3.1.2 General information | General information; site name, sampling year, latitude, longitude, country, land use, or cover type, area sampled. Topography, disturbance, personel trained, research objectives, principle contact, protocol used, associated publication, local partner, data available, latest data modification |  |
| 2.3.3.1.3 Description | Specific description | http://id.agrisemantics.org/gacs/C2939 |
| 2.3.3.2 Data | | |
| 2.3.3.2.1 No ID | Number ID |  |
| 2.3.3.2.2 Site ID | Site ID |  |
| 2.3.3.2.3 Latitude | Latitude; decimal degree | http://id.agrisemantics.org/gacs/C7389 |
| 2.3.3.2.4 Longitude | Longitude; decimal degree | http://id.agrisemantics.org/gacs/C30792 |
| 2.3.3 .2.5 Macroscale typology | Macroscale; tidal estuary |  |
| 2.3.3.2.6 Hydroperiod typology | Hydro-period; Interior |  |
| 2.3.3.2.7 Plot | Plot | http://id.agrisemantics.org/gacs/C3354 |
| 2.3.3.2.8 Sub-plot | Sub-plot |  |
| 2.3.3.2.9 Depth interval | Depth interval; cm |  |
| 2.3.3.2.10 Collected sample depth | Depth range; cm |  |
| 2.3.3.2.11 Soil organic matter depth | Soil organic matter depth; cm | http://id.agrisemantics.org/gacs/C1248 |
| 2.3.3.2.12 Bag No | Bag Number |  |
| 2.3.3.2.13 Wet weight | Wet weight; gr |  |
| 2.3.3.2.14 Dry weight | Dry weight; gr |  |
| 2.3.3.2.15 Auger volume | Auger volume; cm3 | http://id.agrisemantics.org/gacs/C3399 |
| 2.3.3.2.16 Bulk density | Bulk density; g cm-3 | http://id.agrisemantics.org/gacs/C9295 |
| 2.3.3.2.17 Carbon content | Carbon content; % |  |
| 2.3.3.2.18 Nitrogen content | Nitrogen content; % | http://id.agrisemantics.org/gacs/C990 |
| 2.3.3.2.19 C/N ratio | Carbon and nitrogen ratio | http://id.agrisemantics.org/gacs/C7590 |
| 2.3.3.2.20 Carbon density | Carbon density; mg cm-3 |  |
| 2.3.3.2.21 Carbon stocks | Carbon stocks; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
| 2.3.3.2.22 Salinity | Salinity; ppt | http://id.agrisemantics.org/gacs/C1578 |
| 2.3.3.2.23 pH | pH | http://id.agrisemantics.org/gacs/C168 |
| 2.3.3.2.24 Temperature | Temperature; celcius degree | http://id.agrisemantics.org/gacs/C105 |
| 2.3.3.2.25 Soil C mass profile | Soil carbon mass profile; Mg C ha-1 |  |
| 2.3.3.2.26 C-stocks normal all | Carbon stocks normal all; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
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| 2.3.4 **SWAMP Data-Soil carbon-Etna Bay-West Papua-2017** | | |
| 2.3.4.1 General info | | |
| 2.3.4.1.1 No ID | No ID |  |
| 2.3.4.1.2 General information | General information; site name, sampling year, latitude, longitude, country, land use, or cover type, area sampled. Topography, disturbance, personel trained, research objectives, principle contact, protocol used, associated publication, local partner, data available, latest data modification |  |
| 2.3.4.1.3 Description | Specific description | http://id.agrisemantics.org/gacs/C2939 |
| 2.3.4.2 Data | | |
| 2.3.4.2.1 No ID | Number ID |  |
| 2.3.4.2.2 Site ID | Site ID |  |
| 2.3.4.2.3 Latitude | Latitude; decimal degree | http://id.agrisemantics.org/gacs/C7389 |
| 2.3.4.2.4 Longitude | Longitude; decimal degree | http://id.agrisemantics.org/gacs/C30792 |
| 2.3.4 .2.5 Macroscale typology | Macroscale; tidal estuary |  |
| 2.3.4.2.6 Hydroperiod typology | Hydro-period; Interior |  |
| 2.3.4.2.7 Plot | Plot | http://id.agrisemantics.org/gacs/C3354 |
| 2.3.4.2.8 Sub-plot | Sub-plot |  |
| 2.3.4.2.9 Depth interval | Depth interval; cm |  |
| 2.3.4.2.10 Collected sample depth | Depth range; cm |  |
| 2.3.4.2.11 Soil organic matter depth | Soil organic matter depth; cm | http://id.agrisemantics.org/gacs/C1248 |
| 2.3.4.2.12 Bag No | Bag Number |  |
| 2.3.4.2.13 Wet weight | Wet weight; gr |  |
| 2.3.4.2.14 Dry weight | Dry weight; gr |  |
| 2.3.4.2.15 Auger volume | Auger volume; cm3 | http://id.agrisemantics.org/gacs/C3399 |
| 2.3.4.2.16 Bulk density | Bulk density; g cm-3 | http://id.agrisemantics.org/gacs/C9295 |
| 2.3.4.2.17 Carbon content | Carbon content; % |  |
| 2.3.4.2.18 Nitrogen content | Nitrogen content; % | http://id.agrisemantics.org/gacs/C990 |
| 2.3.4.2.19 C/N ratio | Carbon and nitrogen ratio | http://id.agrisemantics.org/gacs/C7590 |
| 2.3.4.2.20 Carbon density | Carbon density; mg cm-3 |  |
| 2.3.4.2.21 Carbon stocks | Carbon stocks; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
| 2.3.4.2.22 Salinity | Salinity; ppt | http://id.agrisemantics.org/gacs/C1578 |
| 2.3.4.2.23 pH | pH | http://id.agrisemantics.org/gacs/C168 |
| 2.3.4.2.24 Temperature | Temperature; celcius degree | http://id.agrisemantics.org/gacs/C105 |
| 2.3.4.2.25 Soil C mass profile | Soil carbon mass profile; Mg C ha-1 |  |
| 2.3.4.2.26 C-stocks normal all | Carbon stocks normal all; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
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| 2.3.5 **SWAMP Data-Soil carbon-Kaimana City-West Papua-2017** | | |
| 2.3.5.1 General info | | |
| 2.3.5.1.1 No ID | No ID |  |
| 2.3.5.1.2 General information | General information; site name, sampling year, latitude, longitude, country, land use, or cover type, area sampled. Topography, disturbance, personel trained, research objectives, principle contact, protocol used, associated publication, local partner, data available, latest data modification |  |
| 2.3.5.1.3 Description | Specific description | http://id.agrisemantics.org/gacs/C2939 |
| 2.3.5.2 Data |  |  |
| 2.3.5.2.1 No ID | Number ID |  |
| 2.3.5.2.2 Site ID | Site ID |  |
| 2.3.5.2.3 Latitude | Latitude; decimal degree | http://id.agrisemantics.org/gacs/C7389 |
| 2.3.5.2.4 Longitude | Longitude; decimal degree | http://id.agrisemantics.org/gacs/C30792 |
| 2.3.5 .2.5 Macroscale typology | Macroscale; tidal estuary |  |
| 2.3.5.2.6 Hydroperiod typology | Hydro-period; Interior |  |
| 2.3.5.2.7 Plot | Plot | http://id.agrisemantics.org/gacs/C3354 |
| 2.3.5.2.8 Sub-plot | Sub-plot |  |
| 2.3.5.2.9 Depth interval | Depth interval; cm |  |
| 2.3.5.2.10 Collected sample depth | Depth range; cm |  |
| 2.3.5.2.11 Soil organic matter depth | Soil organic matter depth; cm | http://id.agrisemantics.org/gacs/C1248 |
| 2.3.5.2.12 Bag No | Bag Number |  |
| 2.3.5.2.13 Wet weight | Wet weight; gr |  |
| 2.3.5.2.14 Dry weight | Dry weight; gr |  |
| 2.3.5.2.15 Auger volume | Auger volume; cm3 | http://id.agrisemantics.org/gacs/C3399 |
| 2.3.5.2.16 Bulk density | Bulk density; g cm-3 | http://id.agrisemantics.org/gacs/C9295 |
| 2.3.5.2.17 Carbon content | Carbon content; % |  |
| 2.3.5.2.18 Nitrogen content | Nitrogen content; % | http://id.agrisemantics.org/gacs/C990 |
| 2.3.5.2.19 C/N ratio | Carbon and nitrogen ratio | http://id.agrisemantics.org/gacs/C7590 |
| 2.3.5.2.20 Carbon density | Carbon density; mg cm-3 |  |
| 2.3.5.2.21 Carbon stocks | Carbon stocks; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
| 2.3.5.2.22 Salinity | Salinity; ppt | http://id.agrisemantics.org/gacs/C1578 |
| 2.3.5.2.23 pH | pH | http://id.agrisemantics.org/gacs/C168 |
| 2.3.5.2.24 Temperature | Temperature; celcius degree | http://id.agrisemantics.org/gacs/C105 |
| 2.3.5.2.25 Soil C mass profile | Soil carbon mass profile; Mg C ha-1 |  |
| 2.3.5.2.26 C-stocks normal all | Carbon stocks normal all; Mg C ha-1 | http://id.agrisemantics.org/gacs/C12978 |
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| 3. Keyword | Productivity, emission reduction, mangroves, ecological restoration, mitigation, climate change, tropics, carbon stock, blue carbon | |
| 4. Constrain information |  | |
| 4.1 Access | Restricted | |
| 6. Spatial representation information |  | |
| 6.1 Geographic extent | West Papua, Indonesia | |