Tables for SAPFLUXNET data paper

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## Supplementary

Table X. Metadata variables list

| **variable** | **description** | **type** | **units** |
| --- | --- | --- | --- |
| si\_name | Site name given by contributors | Character | None |
| si\_country | Country code (ISO) | Character | Fixed values |
| si\_contact\_firstname | Contributor first name | Character | None |
| si\_contact\_lastname | Contributor last name | Character | None |
| si\_contact\_email | Contributor email | Character | None |
| si\_contact\_institution | Contributor affiliation | Character | None |
| si\_addcontr\_firstname | Additional contributor first name | Character | None |
| si\_addcontr\_lastname | Additional contributor last name | Character | None |
| si\_addcontr\_email | Additional contributor email | Character | None |
| si\_addcontr\_institution | Additional contributor affiliation | Character | None |
| si\_lat | Site latitude (i.e. 42.36) | Numeric | Latitude, decimal format (WGS84) |
| si\_long | Site longitude (i.e. -8.23) | Numeric | Longitude, decimal format (WGS84) |
| si\_elev | Elevation above sea level | Numeric | meters |
| si\_paper | Paper with relevant information to understand the site as DOI links or DOI codes | Character | DOI link |
| si\_dist\_mgmt | Recent and historic disturbance and management events that affected the measurement years | Character | Fixed values |
| si\_igbp | Vegetation type based on IGBP classification | Character | Fixed values |
| si\_flux\_network | Logical indicating if site is participating in the FLUXNET network | Logical | Fixed values |
| si\_dendro\_network | Logical indicating if site is participating in the DENDROGLOBAL network | Logical | Fixed values |
| si\_remarks | Remarks and commentaries useful to grasp some site-specific peculiarities | Character | None |
| si\_code | sapfluxnet site code, unique for each site | Character | Fixed value |
| si\_mat | Site annual mean temperature, as obtained from WorldClim | Numeric | Celsius degrees |
| si\_map | Site annual mean precipitation, as obtained from WorldClim | Numeric | mm |
| si\_biome | Biome classification as per Whittaker diagram, based on mat and map obtained from WorldClim | Character | sapfluxnet calculated |
| st\_name | Stand name given by contributors | Character | None |
| st\_growth\_condition | Growth condition with respect to stand origin and management | Character | Fixed values |
| st\_treatment | Treatment applied at stand level | Character | None |
| st\_age | Mean stand age at the moment of sap flow measurements | Numeric | years |
| st\_height | Canopy height | Numeric | meters |
| st\_density | Total stem density for stand | Numeric | stems/ha |
| st\_basal\_area | Total stand basal area | Numeric | m2/ha |
| st\_lai | Total maximum stand leaf area (one-sided, projected) | Numeric | m2/m2 |
| st\_aspect | Aspect the stand is facing (exposure) | Character | Fixed values |
| st\_terrain | Slope and/or relief of the stand | Character | Fixed values |
| st\_soil\_depth | Soil total depth | Numeric | cm |
| st\_soil\_texture | Soil texture class, based on simplified USDA classification | Character | Fixed values |
| st\_sand\_perc | Soil sand content, % mass | Numeric | % percentage |
| st\_silt\_perc | Soil silt content, % mass | Numeric | % percentage |
| st\_clay\_perc | Soil clay content, % mass | Numeric | % percentage |
| st\_remarks | Remarks and commentaries useful to grasp some stand-specific peculiarities | Character | None |
| st\_USDA\_soil\_texture | USDA soil classification based on the percentages provided by the contributor | Character | sapfluxnet calculated |
| sp\_name | Identity of each measured species | Character | Scientific name without author abbreviation, as accepted by The Plant List |
| sp\_ntrees | Number of trees measured of each species | Numeric | number of trees |
| sp\_leaf\_habit | Leaf habit of the measured species | Character | Fixed values |
| sp\_basal\_area\_perc | Basal area occupied by each measured species, in percentage over total stand basal area | Numeric | % percentage |
| pl\_name | Plant code assigned by contributors | Character | None |
| pl\_species | Species identity of the measured plant | Character | Scientific name without author abbreviation, as accepted by The Plant List |
| pl\_treatment | Experimental treatment (if any) | Character | None |
| pl\_dbh | Diameter at breast height of measured plants | Numeric | cm |
| pl\_height | Height of measured plants | Numeric | m |
| pl\_age | Plant age at the moment of measure | Numeric | years |
| pl\_social | Plant social status | Character | Fixed values |
| pl\_sapw\_area | Cross-sectional sapwood area | Numeric | cm2 |
| pl\_sapw\_depth | Sapwood depth, measured at breast height | Numeric | cm |
| pl\_bark\_thick | Plant bark thickness | Numeric | mm |
| pl\_leaf\_area | Leaf area of eachvvmeasured plant | Numeric | m2 |
| pl\_sens\_meth | Sap flow measures method | Character | Fixed values |
| pl\_sens\_man | Sap flow measures sensor manufacturer | Character | Fixed values |
| pl\_sens\_cor\_grad | Correction for natural temperature gradients method | Character | Fixed values |
| pl\_sens\_cor\_zero | Zero flow determination method | Character | Fixed values |
| pl\_sens\_calib | Was species-specific calibration used? | Logical | Fixed values |
| pl\_sap\_units | Uniformized sapfluxnet units for sapwood, leaf and plant level | Character | Fixed values |
| pl\_sap\_units\_orig | Original contribution units (at sapwood or plant level) | Character | Fixed values |
| pl\_sens\_length | Length of the needles or electrodes forming the sensor | Numeric | mm |
| pl\_sens\_hgt | Sensor installation height, measured from the ground | Numeric | m |
| pl\_sens\_timestep | Subdaily time step of sensor measures | Numeric | minutes |
| pl\_radial\_int |  | Character | Fixed values |
| pl\_azimut\_int |  | Character | Fixed values |
| pl\_remarks | Remarks and commentaries useful to grasp some plant-specific peculiarities | Character | None |
| pl\_code | sapfluxnet plant code, unique for each plant | Character | Fixed value |
| env\_time\_zone | Time zone of site used in the TIMESTAMPS | Character | Fixed values |
| env\_time\_daylight | Is daylight saving time applied to the original timestamp? | Logical | Fixed values |
| env\_timestep | Subdaily timestep of environmental measures | Numeric | minutes |
| env\_ta | Location of air temperature sensor | Character | Fixed values |
| env\_rh | Location of relative humidity sensor | Character | Fixed values |
| env\_vpd | Location of relative vapour pressure decifit sensor | Character | Fixed values |
| env\_sw\_in | Location of shortwave incoming radiation sensor | Character | Fixed values |
| env\_ppfd\_in | Location of incoming photosynthetic photon flux density sensor | Character | Fixed values |
| env\_netrad | Location of net radiation sensor | Character | Fixed values |
| env\_ws | Location of wind speed sensor | Character | Fixed values |
| env\_precip | Location of precipitation sensor | Character | Fixed values |
| env\_swc\_shallow\_depth | Average depth for shallow soil water content measures | Numeric | cm |
| env\_swc\_deep\_depth | Average depth for deep soil water content measures | Numeric | cm |
| env\_plant\_watpot | Availability of water potential values for the same measured plants during the sap flow measurements period | Character | Fixed values |
| env\_leafarea\_seasonal | Availability of seasonal course leaf area data and level | Character | Fixed values |
| env\_remarks | Remarks and commentaries useful to grasp some environmental-specific peculiarities | Character | None |

Table X. Number of trees per genus

| **Genus** | **N** | **Genus** | **N** | **Genus** | **N** |
| --- | --- | --- | --- | --- | --- |
| Abies | 53 | Fagus | 164 | Pinus | 740 |
| Abrahamia | 1 | Fraxinus | 12 | Platanus | 1 |
| Acacia | 51 | Genipa | 1 | Platea | 6 |
| Acer | 224 | Goupia | 3 | Pleuranthodendron | 1 |
| Agathis | 6 | Gymnanthes | 3 | Populus | 135 |
| Alchornea | 5 | Hevea | 16 | Pouteria | 12 |
| Ampelocera | 2 | Hieronyma | 3 | Protium | 3 |
| Arbutus | 4 | Ilex | 3 | Prunus | 3 |
| Aspidosperma | 1 | Inga | 1 | Pseudotsuga | 29 |
| Avicennia | 6 | Iryanthera | 1 | Psiadia | 4 |
| Betula | 52 | Juniperus | 15 | Qualea | 5 |
| Brachulaena | 1 | Kandelia | 8 | Quercus | 313 |
| Brosimum | 1 | Larix | 65 | Recordoxylon | 1 |
| Carapa | 3 | Lecythis | 2 | Rustia | 3 |
| Carpinus | 8 | Leptolaena | 1 | Santiria | 5 |
| Carya | 13 | Licania | 8 | Sassafras | 1 |
| Castanopsis | 8 | Liquidambar | 63 | Saurauia | 1 |
| Celtis | 13 | Liriodendron | 51 | Sextonia | 1 |
| Clethra | 2 | Macrolobium | 1 | Sloanea | 2 |
| Coprosma | 4 | Malus | 11 | Swartzia | 2 |
| Cornus | 1 | Manilkara | 2 | Taxus | 2 |
| Cryptocaria | 1 | Meliosma | 2 | Theobroma | 3 |
| Cryptocarya | 6 | Mollinedia | 3 | Thuja | 10 |
| Cryptomeria | 1 | Mortoniodendron | 2 | Tilia | 5 |
| Cupania | 1 | Myrtaceae | 6 | Trophis | 1 |
| Dicorynia | 9 | Nothofagus | 14 | Tsuga | 24 |
| Drimys | 5 | Ocotea | 1 | Turpinia | 1 |
| Elaeagnus | 2 | Olea | 16 | Ulmus | 1 |
| Elaeis | 10 | Ostrya | 6 | Vacapoua | 1 |
| Eschweilera | 6 | Otoba | 2 | Vantanea | 1 |
| Eschweillera | 1 | Oxandra | 3 | Vernonia | 3 |
| Eucalyptus | 189 | Palaquium | 6 | Vouacapoua | 2 |
| Eugenia | 1 | Picea | 207 |  | NA |