

FLUXNET synthesis workshop 2007

List of variables required – version 1.0

Variables mandatory

These variables are all mandatory. If one of these variables is missing, the dataset will not be processed at all.

Decimal day of the year (**DTIME**)

CO₂ flux (**FC** – $\mu\text{mol m}^{-2} \text{s}^{-1}$) not storage corrected, not ustar filtered and not gapfilled

CO₂ concentration top of the tower (**CO2_top** - ppm) and/or storage flux (**SFC** - $\mu\text{mol m}^{-2} \text{s}^{-1}$)

Ustar (**UST** – m s^{-1}) or Momentum (tau)

Global incoming radiation (**RG_in** – W m^{-2}) or PPFD (**PAR_in** - $\mu\text{mol m}^{-2} \text{s}^{-1}$)

Air temperature (**TA** - °C)

Water vapour concentration (**H2O** – mmol mol^{-1}) and/or Relative humidity (**RH** - % [0-100])

Variables very important

These variables are indispensable for part of the papers planned and if submitted (also part of these) the site will be involved in more papers. For this reason we strongly suggest to submit also these variables.

Latent heat flux (**LE** – W m^{-2})

Sensible heat flux (**H** – W m^{-2})

Soil heat flux (**G1** – W m^{-2})

Water vapour concentration (**H2O** – mmol mol^{-1})

Relative humidity (**RH** - % [0-100])

Precipitation (**PRECIP** – mm)

Soil water content (**SWC** - % [0-100]) – also more than one depth

Soil temperature (**TS** - °C) – also more than one depth

Reflected radiation (**RR** - W m^{-2})

Net radiation (**RNET** - W m^{-2})

Diffuse radiation (**RD** - W m^{-2})

Absorbed PAR (**APAR** - $\mu\text{mol m}^{-2} \text{s}^{-1}$) or Fraction of PAR absorbed (**FAPAR** – % [0-100])

Wind direction (**WD** – degrees)

Wind horizontal speed (**WS** - m s^{-1})

Air pressure (**PA** – kPa)

Atmosphere stability parameter (**ZL**)

Ancillary information required (mandatory):

Site name

PI name and email

Geographic coordinates (latitude longitude, WGS84, first decimal of second precision (e.g. 44° 27' 52,3"))

Measurement height

Land cover and Land use

Ancillary information important

Management, LAI, Biomass, age etc....

Data have to be sent before 15th November to Bob Cook (cookrb@ornl.gov), possibly in a standardized format if you are sending data of different sites, in ASCII format, with the first line as header using the codes in red above. You can also use the template attached.