

Measurement	units	Frequency	Description	Start date	End date	Contract	Data submission (location)	Publicly available?	url?	Metadata/QC protocol link?
NEE	umol m ⁻² s ⁻¹	30 minutes	Licor 7000	2002	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
LE	W m ⁻²	30 minutes	Licor 7000	2002	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
H	W m ⁻²	30 minutes	Ultrasonic anemometer (Gill Windmaster Pro)	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database) for 2002 onwards, NitroEurope,	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Rg (Global radiation)	W m ⁻²	30 minutes	Skye instruments, pyranometer SKS1110		present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Rn (Net radiation)	W m ⁻²	30 minutes	Kipp and Zonen NRLite pyrradiometer	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
St (Total solar)	W m ⁻²	30 minutes	Skye instruments, pyranometer SKS1110	1995	present date	NitroEurope, CarboEurope, ECLAIRE	NitroEurope/CarboEurope			
Total PAR	umol m ⁻² s ⁻¹	30 minutes	Skye instruments, quantum sensor, SKP215	2003	present date	CarboEurope	NitroEurope/CarboEurope			
Direct PAR	umol m ⁻² s ⁻¹	30 minutes	DeltaT Sunshine Sensor model BF3	2006	present date	NitroEurope, ECLAIRE	NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Diffuse PAR	umol m ⁻² s ⁻¹	30 minutes	DeltaT Sunshine Sensor model BF3	2006	present date	NitroEurope, ECLAIRE	NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Tair	deg_C	30 minutes	fine wire thermocouple	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
pressure	kPa	30 minutes	PTB101C,Vaisala	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
T gradient	deg_C	30 minutes	5 thermocouples ground to 4 m		2009	DEFRA Pollutant deposition processes		No		
T gradient	deg_C	30 minutes	5 thermocouples ground to 7 m	2009	present date	DEFRA Pollutant deposition processes		No		
L (Monin-Obukhov length)	adim	30 minutes	Ultrasonic anemometer (Gill Windmaster Pro)	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database) 2002 onwards, NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Tau (momentum flux)		30 minutes	Ultrasonic anemometer (Gill Windmaster Pro)	2002	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database) 2002 onwards, NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
ustar	Kg m ⁻¹ s ⁻²	30 minutes	Ultrasonic anemometer (Gill Windmaster Pro)	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database) 2002 onwards, NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
U (wind speed)		30 minutes		1995						
Wd	deg	30 minutes		1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Soil water content	%	30 minutes	Campbell Scientific CS616 TDR probes	2011	present date					
Tsoil	deg_C	30 minutes	Averaging Thermocouples	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
RH	%	30 minutes	Weather station	2002	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
precip	mm	30 minutes	tipping bucket raingauge, Campbell Scientific	1995	present date	NitroEurope, CarboEurope, ECLAIRE	Fluxnet (via European Fluxes Database), NitroEurope, CarboEurope	Yes	http://www.europe-fluxdata.eu/	http://www.europe-fluxdata.eu/
Leaf wetness	%	30 minutes	pcb grid, Model 237, Campbell Scientific	2002	present date	NitroEurope, CarboEurope, ECLAIRE	NitroEurope/CarboEurope	Yes- selected years		
soil heat flux		30 minutes	Campbell Scientific, HFP01 Heat Flux Plate (Hukseflux)	1995	present date	NitroEurope, CarboEurope, ECLAIRE	NitroEurope/CarboEurope	Yes- selected years		
sunshine	Smp	30 minutes	DeltaT Sunshine Sensor model BF3	May-06	present date	ECLAIRE	ECLAIRE			
water table	m	30 minutes	Druck PDCR 1830	Apr-07	present date	ECLAIRE	ECLAIRE			
Snow Depth	m	30 minutes	Campbell Scientific SR50A Sonic Ranging Sensor	Oct-13	present date	CEH project				
soil temperature	oC	30 minutes	4 point Campbell Scientific 107 thermistor profile	2003	present date	CarboEurope/NitroEurope				