Eddy Covariance Half-hourly files

Column heading	definition	Units
Fc_wpl	CO2 flux, WPL corrected	mg $m^{-2}s^{-1}$
LE_wpl	Latent heat flux, WPL corrected	W m^{-2}
Hs	Sensible heat flux	W m^{-2}
Tau	Shear stress	kg $m^{-1}s^{-2}$
U_star	Friction velocity	m s^{-1}
stdev_Uz	Standard deviation of vertical velocity	m s^{-1}
cov_Ux_Uz	Covariance of x and z wind components	$m^{-2}s^{-2}$
cov_Uy_Uz	Covariance of y and z wind components	$m^{-2}s^{-2}$
cov_co2_Uz	Covariance of CO_2 and vertical velocity	mg $m^{-2}s^{-1}$
cov_h2o_Uz	Covariance of H_2O and vertical velocity	g $m^{-2}s^{-1}$
cov_Ts_Uz	Cov. of sonic T and vertical velocity	K m s^{-1}
stdev_Ux	Standard deviation of x wind comp.	m s^{-1}
cov_Ux_Uy	Cov. of x and y wind comps.	$m^{-2}s^{-2}$
cov_co2_Ux	Covariance of CO_2 and x wind comp.	mg $m^{-2}s^{-1}$
cov_h2o_Ux	Covariance of H_2O and x wind comp.	g $m^{-2}s^{-1}$
cov_Ts_Ux	Covariance of sonic T and x wind comp.	K m s^{-1}
stdev_Uy	Standard deviation of y wind comp.	m s^{-1}
cov_co2_Uy	Covariance of CO_2 and y wind comp.	mg $m^{-2}s^{-1}$
cov_h2o_Uy	Covariance of H_2O and y wind comp.	g $m^{-2}s^{-1}$
cov_Ts_Uy	Covariance of sonic T and y wind comp.	K m s^{-1}
stdev_co2	Standard deviation of CO_2 conc.	mg m^{-3}
stdev_h2o	Standard deviation of H_2O conc.	g m^{-3}
Ux_Avg	Mean x wind component	m s^{-1}
Uy_Avg	Mean y wind component	m s^{-1}
Uz_Avg	Mean z wind component	m s^{-1}
co2_mean	Mean CO_2 concentration	mg m^{-3}
h2o_Avg	Mean H_2O concentration	g m^{-3}
Ts_mean	Mean sonic Temperature	C
rho_a_mean	Mean air density	kg m^{-3}
press_mean	Mean barometric pressure	kPa
panel_temp	Datalogger panel temperature	C
wnd_dir,csa	Compass wind direction	CW deg. from N
wnd_dir_csat3	Wind direction with respect to sonic.	+/- deg.
wnd_spd	Mean windspeed	m s^{-1}
rslt_wnd_spd	Mean resultant windspeed	m s^{-1}
batt_volt_Avg	Battery voltage	V
std_wnd_dir	St. dev. of wind dir?	Deg.
n_Tot	Number of data points in period	
csat_warnings	Number of csat warning flags	

irga_warnings		
irga_warnings	Number of irga warnings	
sig_lck_f_Tot	See Licor manual for flag definitions	
amp_h_f_Tot	"	
amp_l_f_Tot	"	
chopper_f_Tot	"	
detector_f_Tot	"	
pll_f_Tot	"	
pll_f_Tot	"	
sync_f_Tot	"	
agc_Avg	Irga gain control	
Fc_irga	Raw CO2 flux	mg $m^{-2}s^{-1}$
LE_irga	Raw H2O flux	g $m^{-2}s^{-1}$
co2_wpl_LE	CO2 WPL correction for LE	mg $m^{-2}s^{-1}$
co2_wpl_H	CO2 WPL correction for H	mg $m^{-2}s^{-1}$
h2o_wpl_LE	H2O WPL correction for LE	g $m^{-2}s^{-1}$
h2o_wpl_H	H2O WPL correction for H	g $m^{-2}s^{-1}$