TABLE 1 FLATLANDS96 data available as netcdf files

Netcdf variable	Measurement	Time resolution	Units	Station	Comments
ATI.TT	tdry'tdry'	5 min	$degC^2$	1, 2 & 3	bp-bp covariance
ATI.mrmr	q'q'	5 min	g^2kg^{-2}	1, 2 & 3	bp-bp covariance
ATI.a	bandpass a	10 min	$ms^{-1}gkg^{-1}$	1, 2 & 3	bandpass coeff
ATI.b	bandpass b	10 min	$gkg^{-1}degC^{1}$	1, 2 & 3	bandpass coeff
ATI.rSqrd	bandpass rsqrd	10 min	none	1, 2 & 3	bandpass coeff
ATI.N	bandpass N	10 min	points	1, 2 & 3	bandpass coeff
ATI.wq	bandpass wq	10 min	ms^{-1} gkg^{-1}	1, 2 & 3	bandpass
ATI.wt	highpass wt	10 min	ms^{-1} degC	1, 2 & 3	bandpass
ATI.wtx	highpass wq	10 min	$ms^{-1}gkg^{-1}$	1, 2 & 3	bandpass
LOGR.Soldn.AVG	sol_dn	5 min	wm^{-2}	1, 2 & 3	Licor LI200
LOGR.Rnet.AVG	Net Rad	5 min	wm^{-2}	1, 2 & 3	Q7
Everest.Tsfc.AVG	surface T	5 min	degC	1, 2 & 3	Everest surface T
LOGR.SoilT.AVG	soil T	5 min	degC	1, 2 & 3	1 - 5 cm PRT
LOGR.SoilHF.AVG	soil heat flux	5 min	wm^{-2}	1, 2 & 3	5 cm REBS plate
SoilMois.AVG	soil moisture	5 min	% vol	1, 2 & 3	Campbell Scientific 615
Soil-Mois.PCmass.AVG	soil moisture	5 min	% mass	1, 2 & 3	Campbell Scientific 615
SoilMois.Gravimetric	Gravimetric soil moisture	Infrequently	% mass	1, 2 & 3	gravimetric
O3.kok.AVG	fast O3 mean	5 min	ppb	1	Kok gpcl
O3.kok.VAR	fast O3 covari-ance	5 min	ppb^2	1	Kok gpcl
uO3	u'O3'	5 min	ms^{-1} ppb	1	Kok-sonic
vO3	v'O3'	5 min	ms^{-1} ppb	1	Kok-sonic
wO3	w'O3'	5 min	ms^{-1} ppb	1	Kok-sonic
O3.teco	accurate O3 mean	5 min	ppb	1	ThermoElectron uvab
O3.kok.cnt	Kok O3	5 min	counts	1	# of data points in 5 min
O3.teco.cnttime	Teco O3	5 min	counts	1	# of data points in 5 min

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Netcdf variable	Measurement	Time resolution	Units	Station	Comments
VAIS.PRES.AVG	pressure	1 min	mB	1, 2 & 3	Vaisala PTB 220
TRH.Tdry.AVG	temperature	1 min	degC	1, 2 & 3	NCAR hygrothermometer
TRH.rh.AVG	humidity	1 min	%	1, 2 & 3	NCAR hygrothermometer
LOGR.ETI.TOTAL	rain rate	1 min	.01” tips min^{-1}	1, 2 & 3	ETI rain gauge
LOGR.ETI.NZTOTAL	rain accum	1 min	.01” tips	1, 2 & 3	ETI rain gauge
WIND.Vavg	v wind	1 min	ms^{-1}	1, 2 & 3	prop-vane wind
WIND.Uavg	u wind	1 min	ms^{-1}	1, 2 & 3	prop-vane wind
WIND.max	max wind	1 min	ms^{-1}	1, 2 & 3	prop-vane wind
ATI.freq	frequency	5 min	Hz	1, 2 & 3	sonic sampling freq
ATI.cnt	samples	5 min	counts	1, 2 & 3	# of sonic samples
ATI.U.AVG	u wind	5 min	ms^{-1}	1, 2 & 3	sonic wind
ATI.V.AVG	v wind	5 min	ms^{-1}	1, 2 & 3	sonic wind
ATI.W.AVG	w wind	5 min	ms^{-1}	1, 2 & 3	sonic wind
ATI.Tsonic.AVG	Virtual T	5 min	degC	1, 2 & 3	sonic virtual T
ATI.Uspikes	u spikes	5 min	counts	1, 2 & 3	sonic spike counts
ATI.Vspikes	v spikes	5 min	counts	1, 2 & 3	sonic spike counts
ATI.Wspikes	w spikes	5 min	counts	1, 2 & 3	sonic spike counts
ATI.Tsonicspikes	sonic T spikes	5 min	counts	1, 2 & 3	sonic spike counts
ATI.alev.AVG	a level	5 min	degrees	1, 2 & 3	N-S
ATI.blev.AVG	b level	5 min	degrees	1, 2 & 3	E-W
ATI.Tdry.AVG	temperature	5 min	degC	1, 2 & 3	bandpass T
ATI.rh.AVG	humidity	5 min	%	1, 2 & 3	bandpass RH
ATI.mr.AVG	mixing ratio	5 min	gkg^{-1}	1, 2 & 3	bandpass mixing ratio
ATI.UU	u’u’	5 min	m^2s^{-2}	1, 2 & 3	sonic-sonic covariance
ATI.UV	u’v’	5 min	m^2s^{-2}	1, 2 & 3	sonic-sonic variance
ATI.UW	u’w’	5 min	m^2s^{-2}	1, 2 & 3	sonic-sonic variance
ATI.UTs	u’t’	5 min	ms^{-1} degC	1, 2 & 3	sonic-sonic variance
ATI.Umr	u’q’	5 min	ms^{-1} gkg^{-1}	1, 2 & 3	sonic-sonic variance
ATI.VV	v’v’	5 min	m^2s^{-2}	1, 2 & 3	sonic-sonic covariance
ATI.VW	v’w’	5 min	m^2s^{-2}	1, 2 & 3	sonic-sonic variance
ATI.VTs	v’t’	5 min	ms^{-1}degC	1, 2 & 3	sonic-sonic variance
ATI.Vmr	v’q’	5 min	ms^{-1} gkg^{-1}	1, 2 & 3	sonic-sonic variance
ATI.WW	w’w’	5 min	m^2s^{-2}	1, 2 & 3	sonic-sonic covariance
ATI.WTs	w’t’	5 min	ms^{-1} degC	1, 2 & 3	sonic-sonic variance
ATI.Wmr	w’q’	5 min	ms^{-1} gkg^{-1}	1, 2 & 3	sonic-sonic variance
ATI.TsTs	t’t’	5 min	$degC^2$	1, 2 & 3	sonic-sonic covariance