

Table A1 - Variables					
version 9					
long_name	standard_name	units	variable	acronym	AMIP
surface albedo	surface_albedo	1	albedo_surf	TUBKlima	N
albedo type classification		1	albedo_type	LUHimuk	N
basal area density		m2 m-3	bad	LUHimuk	N
building id number		1	building_id	LUHimuk	N
building type classification		1	building_type	LUHimuk	N
building height		m	buildings_2d	LUHimuk	N
building flag		1	buildings_3d	LUHimuk	N
cold air flow		m3 s-1	caf	SenSWB	N
coverage of plants with liquid water		1	cliq	LUHimuk	N
cloud area fraction	cloud_area_fraction	1	clt		Y
coverage of land surface with bare soil		1	csoll	LUHimuk	N
city structure		1	csfr	SenSWB	N
vegetation area fraction	vegetation_area_fraction	1	cveg	LUHimuk	N
divergence of velocity field after pressure solver		s-1	divnew	LUHimuk	N
divergence of velocity field before pressure solver		s-1	divold	LUHimuk	N
time step		s	dt	LUHimuk	N
emission of anthropogenic heat from buildings		K s-1	eahb	LUHimuk	N
absolute atmospheric humidity		kg m-3	haa	KITimkro	N
hail duration		s	hdu	FZJiek8	N
downward heat flux at ground level in soil	downward_heat_flux_at_ground_level_in_soil	W m-2	hfdg	TUBKlima	N
downward heat flux in soil	downward_heat_flux_in_soil	W m-2	hfd5	UHHmeteo	N
surface upward latent heat flux	surface_upward_latent_heat_flux	W m-2	hfls		Y
upward latent heat flux in air	upward_latent_heat_flux_in_air	W m-2	hfla	TUBKlima	N
surface upward sensible heat flux	surface_upward_sensible_heat_flux	W m-2	hfss		Y
upward sensible heat flux in air	upward_sensible_heat_flux_in_air	W m-2	hf5a	TUBKlima	N
relative humidity	relative_humidity	1	hur		Y
specific humidity	specific_humidity	g kg-1	hus		Y
photolysis rate of nitrogen dioxide	photolysis_rate_of_nitrogen_dioxide	s-1	jno2	FZJiek8	N
mixing length		m	l	LUHimuk	N
leaf area density		m2 m-3	lad	LUHimuk	N
leaf area index	leaf_area_index	m2 m-2	lai	LUHimuk	N
mass concentration of liquid water in air	mass_concentration_of_liquid_water_in_air	kg m-3	lwc	hdcp2	N
liquid water content of soil layer	liquid_water_content_of_soil_layer	kg m-2	lwcs	UHHmeteo, TUBKlima	N
liquid water path	atmosphere_mass_content_of_cloud_liquid_water	kg m-2	lwp	KITimk, LUHimuk	N
liquid water level on plants		m	m_liq	LUHimuk	N
soil moisture volumetric		m3 m-3	m_soil	LUHimuk	N
mass concentration of ambient aerosol particles in air		kg m-3	mcaa	FZJiek8	N
mass concentration of arsenic dry aerosol particles in air		kg m-3	mca5a	SenUVKB	N
mass concentration of black carbon dry aerosol particles in air		kg m-3	mcbsd	USIfk	N
mass concentration of benzene in air	mass_concentration_of_benzene_in_air	kg m-3	mcbenz	SenUVKB	N
mass concentration of calcium dry aerosol particles in air		kg m-3	mccada	SenUVKB	N
mass concentration of elemental carbon dry aerosol particles in air	mass_concentration_of_elemental_carbon_dry_aerosol_particles_in_air	kg m-3	mccda	SenUVKB	N
mass concentration of cadmium dry aerosol particles in air		kg m-3	mccdda	SenUVKB	N
mass concentration of chloride dry aerosol particles in air		kg m-3	mcclda	SenUVKB	N
mass concentration of carbon monoxide in air	mass_concentration_of_carbon_monoxide_in_air	kg m-3	mcco	SenUVKB	N
mass concentration of carbon dioxide in air	mass_concentration_of_carbon_dioxide_in_air	kg m-3	mcco2	TUBSgeo	N
mass concentration of potassium dry aerosol particles in air		kg m-3	mckda	SenUVKB	N
mass concentration of magnesium dry aerosol particles in air		kg m-3	mcmgda	SenUVKB	N
mass concentration of sodium dry aerosol particles in air		kg m-3	mcnada	SenUVKB	N
mass concentration of ammonium dry aerosol particles in air	mass_concentration_of_ammonium_dry_aerosol_particles_in_air	kg m-3	mcn4da	SenUVKB	N
mass concentration of nickel dry aerosol particles in air		kg m-3	mcnida	SenUVKB	N
mass concentration of nitrogen monoxide in air	mass_concentration_of_nitrogen_monoxide_in_air	kg m-3	mcno	USIfk	N
mass concentration of nitrogen dioxide in air	mass_concentration_of_nitrogen_dioxide_in_air	kg m-3	mcno2	SenUVKB	N
mass concentration of nitrate dry aerosol particles in air	mass_concentration_of_nitrate_dry_aerosol_particles_in_air	kg m-3	mcno3da	SenUVKB	N
mass concentration of nitrogen oxides in air		kg m-3	mcnox	SenUVKB	N
mass concentration of ozone in air	mass_concentration_of_ozone_in_air	kg m-3	mco3	SenUVKB	N
mass concentration of lead dry aerosol particles in air		kg m-3	mcpbda	SenUVKB	N
mass concentration of pm ambient aerosol particles in air		kg m-3	mcpm	USIfk	N
mass concentration of pm1 ambient aerosol particles in air	mass_concentration_of_pm1_ambient_aerosol_particles_in_air	kg m-3	mcpm1	HUBgeo	N
mass concentration of pm10 ambient aerosol particles in air	mass_concentration_of_pm10_ambient_aerosol_particles_in_air	kg m-3	mcpm10	SenUVKB	N
mass concentration of pm2.5 ambient aerosol particles in air	mass_concentration_of_pm2p5_ambient_aerosol_particles_in_air	kg m-3	mcpm2p5	USIfk	N
mass concentration of sulfur dioxide in air	mass_concentration_of_sulfur_dioxide_in_air	kg m-3	mcsso2	SenUVKB	N
mass concentration sulfate ambient aerosol particles in air		kg m-3	mcsso4aa	SenUVKB	N
mole fraction of 1-1-dimethylcyclohexane in air		mol mol-1	mf11mecyc6	FZJiek8	N
mole fraction of 1-2-3-4-tetramethylbenzene in air		mol mol-1	mf1234mebenz	FZJiek8	N
mole fraction of 1-2-3-5-tetramethylbenzene in air		mol mol-1	mf1235mebenz	FZJiek8	N
mole fraction of 1-2-3-trimethylbenzene in air		mol mol-1	mf123mebenz	FZJiek8	N
mole fraction of 1-2-4-5-tetramethylbenzene in air		mol mol-1	mf1245mebenz	FZJiek8	N
mole fraction of 1-2-dimethyl-4-ethylbenzene in air		mol mol-1	mf12me4etbenz	FZJiek8	N
mole fraction of 4-ethenyl-1-2-dimethylbenzene in air		mol mol-1	mf12me4etenbenz	FZJiek8	N
mole fraction of 1-2-methyl isopropylbenzene in air		mol mol-1	mf12meisopbenz	FZJiek8	N
mole fraction of 1-2-methyl-n-propylbenzene in air		mol mol-1	mf12mepropbenz	FZJiek8	N
mole fraction of mesitylene in air		mol mol-1	mf135mebenz	FZJiek8	N
mole fraction of diethyl-1-3-benzene in air		mol mol-1	mf13etbenz	FZJiek8	N
mole fraction of 1-3-dimethyl-2-ethylbenzene in air		mol mol-1	mf13me2etbenz	FZJiek8	N
mole fraction of 1-3-dimethyl-4-ethylbenzene in air		mol mol-1	mf13me4etbenz	FZJiek8	N
mole fraction of 1-3-methyl-isopropylbenzene in air		mol mol-1	mf13meisopbenz	FZJiek8	N
mole fraction of 1-3-methyl-n-propylbenzene in air		mol mol-1	mf13mepropbenz	FZJiek8	N
mole fraction of diethyl-1-4-benzene in air		mol mol-1	mf14etbenz	FZJiek8	N
mole fraction of 1-ethenyl-3-ethylbenzene in air		mol mol-1	mf1eten3etbenz	FZJiek8	N
mole fraction of 1-methylcyclohexene in air		mol mol-1	mf1mecyc6en	FZJiek8	N
mole fraction of 2-2-4-trimethylpentane in air		mol mol-1	mf224mec5	FZJiek8	N
mole fraction of 2-2-4-dimethylbutane in air		mol mol-1	mf22mec4	FZJiek8	N
mole fraction of 2-3-4-trimethylpentane in air		mol mol-1	mf234mec5	FZJiek8	N
mole fraction of 2-3-dimethylbutane in air		mol mol-1	mf23mec4	FZJiek8	N
mole fraction of 2-3-dimethylpentane in air		mol mol-1	mf23mec5	FZJiek8	N
mole fraction of 2-3-dimethyl-2-pentene in air		mol mol-1	mf23mec5en2	FZJiek8	N
mole fraction of 2-4-dimethylpentane in air		mol mol-1	mf24mec5	FZJiek8	N
mole fraction of 2-4-dimethylhexane in air		mol mol-1	mf24mec6	FZJiek8	N
mole fraction of 2-5-dimethylhexane in air		mol mol-1	mf25mec6	FZJiek8	N
mole fraction of 2-6-dimethylcyclohexane in air		mol mol-1	mf26mec6	FZJiek8	N
mole fraction of 2-ethyltoluene in air		mol mol-1	mf2ettol	FZJiek8	N
mole fraction of 2-methylbutane in air		mol mol-1	mf2mec4	FZJiek8	N
mole fraction of 2-methyl-1-butene in air		mol mol-1	mf2mec4en1	FZJiek8	N
mole fraction of 2-methyl-2-butene in air		mol mol-1	mf2mec4en2	FZJiek8	N
mole fraction of 2-methylpentane in air		mol mol-1	mf2mec5	FZJiek8	N
mole fraction of 2-methylhexane in air		mol mol-1	mf2mec6	FZJiek8	N
mole fraction of 2-methyl-heptane in air		mol mol-1	mf2mec7	FZJiek8	N
mole fraction of 3-6-dimethylcyclohexane in air		mol mol-1	mf36mec8	FZJiek8	N
mole fraction of 3-ethyltoluene in air		mol mol-1	mf3ettol	FZJiek8	N
mole fraction of 3-methylpentane in air		mol mol-1	mf3mec5	FZJiek8	N
mole fraction of 3-methylhexane in air		mol mol-1	mf3mec6	FZJiek8	N
mole fraction of 3-methyl-heptane in air		mol mol-1	mf3mec7	FZJiek8	N
mole fraction of 4-ethyltoluene in air		mol mol-1	mf4ettol	FZJiek8	N
mole fraction of 4-methyl-heptane in air		mol mol-1	mf4mec7	FZJiek8	N
mole fraction of 4-methylcyclohexane in air		mol mol-1	mf4mec8	FZJiek8	N
mole fraction of 5-methylnonane in air		mol mol-1	mf5mec9	FZJiek8	N
mole fraction of alpha-pinene in air		mol mol-1	mfagpine	FZJiek8	N
mole fraction of alpha-terpinene in air		mol mol-1	mfaterp	FZJiek8	N
mole fraction of benzene in air	mole_fraction_of_benzene_in_air	mol mol-1	mfbenz	FZJiek8	N
mole fraction of beta pinene in air		mol mol-1	mfbpine	FZJiek8	N
mole fraction of butylbenzene in air		mol mol-1	mfbutbenz	FZJiek8	N
mole fraction of n-butylcyclopentane in air		mol mol-1	mfbutcyc5	FZJiek8	N
mole fraction of decane in air		mol mol-1	mf10	FZJiek8	N
mole fraction of undecane in air		mol mol-1	mf11	FZJiek8	N
mole fraction of dodecane in air		mol mol-1	mf12	FZJiek8	N
mole fraction of cis-1-2-dimethylcyclopentane in air		mol mol-1	mf12mecyc5	FZJiek8	N
mole fraction of cis-1-3-dimethylcyclohexane in air		mol mol-1	mf13mecyc5	FZJiek8	N
mole fraction of cis-1-4-dimethylcyclohexane in air		mol mol-1	mf14mecyc5	FZJiek8	N
mole fraction of 1cis-2trans-4-trimethylcyclopentane in air		mol mol-1	mf1124mecyc5	FZJiek8	N

mole fraction of ethane in air	mole fraction of ethane in air	mol mol-1	mfc2	FZJiek8	N
mole fraction of acetaldehyde in air	mole_fraction_of_acetaldehyde_in_air	mol mol-1	mfc2al	FZJiek8	N
mole fraction of ethene in air	mole fraction of ethene in air	mol mol-1	mfc2en	FZJiek8	N
mole fraction of ethyne in air	mole_fraction_of_etyne_in_air	mol mol-1	mfc2in	FZJiek8	N
mole fraction of ethanol in air	mole_fraction_of_ethanol_in_air	mol mol-1	mfc2ol	FZJiek8	N
mole fraction of propane in air	mole_fraction_of_propane_in_air	mol mol-1	mfc3	FZJiek8	N
mole fraction of propanal in air		mol mol-1	mfc3al	FZJiek8	N
mole fraction of propene in air	mole_fraction_of_propene_in_air	mol mol-1	mfc3en	FZJiek8	N
mole fraction of propyne in air		mol mol-1	mfc3in	FZJiek8	N
mole fraction of 1-propanol in air		mol mol-1	mfc3ol1	FZJiek8	N
mole fraction of 2-propanol in air		mol mol-1	mfc3ol2	FZJiek8	N
mole fraction of acetone in air	mole_fraction_of_acetone_in_air	mol mol-1	mfc3on	FZJiek8	N
mole fraction of butane in air	mole_fraction_of_butane_in_air	mol mol-1	mfc4	FZJiek8	N
mole fraction of butanal in air		mol mol-1	mfc4al	FZJiek8	N
mole fraction of 1-2-butadiene in air		mol mol-1	mfc4en12	FZJiek8	N
mole fraction of 1-3-butadiene in air		mol mol-1	mfc4en13	FZJiek8	N
mole fraction of 1-butanol in air		mol mol-1	mfc4ol1	FZJiek8	N
mole fraction of 2-butanol in air		mol mol-1	mfc4ol2	FZJiek8	N
mole fraction of butanone in air		mol mol-1	mfc4on	FZJiek8	N
mole fraction of pentane in air		mol mol-1	mfc5	FZJiek8	N
mole fraction of pentanal in air		mol mol-1	mfc5al	FZJiek8	N
mole fraction of 1-pentene in air		mol mol-1	mfc5en1	FZJiek8	N
mole fraction of hexane in air		mol mol-1	mfc6	FZJiek8	N
mole fraction of hexanal in air		mol mol-1	mfc6al	FZJiek8	N
mole fraction of heptane in air		mol mol-1	mfc7	FZJiek8	N
mole fraction of 1-heptene in air		mol mol-1	mfc7en1	FZJiek8	N
mole fraction of octane in air		mol mol-1	mfc8	FZJiek8	N
mole fraction of nonane in air		mol mol-1	mfc9	FZJiek8	N
mole fraction of cis-butene in air		mol mol-1	mfc4en	FZJiek8	N
mole fraction of cis-pentene in air		mol mol-1	mfc5en	FZJiek8	N
mole fraction of cis-2-hexene in air		mol mol-1	mfc6en2	FZJiek8	N
mole fraction of cis-3-ethylmethylcyclopentane in air		mol mol-1	mfcetmecyc5	FZJiek8	N
mole fraction of methane in air	mole_fraction_of_methane_in_air	mol mol-1	mfc4	FZJiek8	N
mole fraction of carbon monoxide in air	mole_fraction_of_carbon_monoxide_in_air	mol mol-1	mfc	FZJiek8	N
mole fraction of carbon dioxide in air	mole_fraction_of_carbon_dioxide_in_air	mol mol-1	mfcO2	FZJiek8	N
mole fraction of cyclopentene in air		mol mol-1	mfcyc5en	FZJiek8	N
mole fraction of cis-1-3-cyclopentane in air		mol mol-1	mfcyc5en13	FZJiek8	N
mole fraction of cyclohexane in air		mol mol-1	mfcyc6	FZJiek8	N
mole fraction of d2-carene in air		mol mol-1	mfd2care	FZJiek8	N
mole fraction of d3-carene in air		mol mol-1	mfd3care	FZJiek8	N
mole fraction of e-beta-ocimene in air		mol mol-1	mfebocim	FZJiek8	N
mole fraction of ethylbenzene in air		mol mol-1	mftbenz	FZJiek8	N
mole fraction of ethylcyclopentane in air		mol mol-1	mftcyc5	FZJiek8	N
mole fraction of ethylcycloheptane in air		mol mol-1	mftcyc7	FZJiek8	N
mole fraction of water in air		mol mol-1	mH2O	FZJiek8	N
mole fraction of 2-3-dihydroindene in air		mol mol-1	mfind	FZJiek8	N
mole fraction of 2-phenylpentane in air		mol mol-1	mfindoc5benz	FZJiek8	N
mole fraction of isoprene in air	mole_fraction_of_isoprene_in_air	mol mol-1	mfindoprene	FZJiek8	N
mole fraction of isopropylbenzene in air		mol mol-1	mfindopropbenz	FZJiek8	N
mole fraction of isopropylcyclopentane in air		mol mol-1	mfindopropcyc5	FZJiek8	N
mole fraction of limonene in air	mole_fraction_of_limonene_in_air	mol mol-1	mflimo	FZJiek8	N
mole fraction of methacrolein in air		mol mol-1	mfmacr	FZJiek8	N
mole fraction of isobutane in air		mol mol-1	mfmec3	FZJiek8	N
mole fraction of isobutene and 1-butene in air		mol mol-1	mfmec3en	FZJiek8	N
mole fraction of methylcyclopentane in air		mol mol-1	mfmecyc5	FZJiek8	N
mole fraction of methylcyclohexane in air		mol mol-1	mfmecyc6	FZJiek8	N
mole fraction of m-p-xylene in air		mol mol-1	mfmpxyle	FZJiek8	N
mole fraction of methyl vinyl ketone in air		mol mol-1	mfmvk	FZJiek8	N
mole fraction of myrcene in air		mol mol-1	mfmvrc	FZJiek8	N
mole fraction of nitrous oxide in air	mole_fraction_of_nitrous_oxide_in_air	mol mol-1	mfn2O	FZJiek8	N
mole fraction of naphthalene in air		mol mol-1	mfnaphth	FZJiek8	N
mole fraction of ammonia in air	mole_fraction_of_ammonia_in_air	mol mol-1	mfnh3	FZJiek8	N
mole fraction of nitrogen monoxide in air	mole_fraction_of_nitrogen_monoxide_in_air	mol mol-1	mfnO	FZJiek8	N
mole fraction of nitrogen dioxide in air	mole_fraction_of_nitrogen_dioxide_in_air	mol mol-1	mfnO2	FZJiek8	N
mole fraction of nox expressed as nitrogen in air	mole_fraction_of_nox_expressed_as_nitrogen_in_air	mol mol-1	mfnOx	FZJiek8	N
mole fraction of o-xylene in air		mol mol-1	mfoxyle	FZJiek8	N
mole fraction of propylbenzene in air		mol mol-1	mfindpropbenz	FZJiek8	N
mole fraction of 1-propenylbenzene in air		mol mol-1	mfindpropen1benz	FZJiek8	N
mole fraction of sabinene in air		mol mol-1	mfsabi	FZJiek8	N
mole fraction of sulfur dioxide in air	mole_fraction_of_sulfur_dioxide_in_air	mol mol-1	mfsO2	FZJiek8	N
mole fraction of styrene in air		mol mol-1	mfstyr	FZJiek8	N
mole fraction of trans-1-3-dimethylcyclopentane in air		mol mol-1	mft13mecyc5	FZJiek8	N
mole fraction of trans-1-4-dimethylcyclohexane in air		mol mol-1	mft14mecyc6	FZJiek8	N
mole fraction of t-butylbenzene in air		mol mol-1	mftbutbenz	FZJiek8	N
mole fraction of trans-butene in air		mol mol-1	mftc4en	FZJiek8	N
mole fraction of trans-pentene in air		mol mol-1	mftc5en	FZJiek8	N
mole fraction of trans-1-3-hexadiene in air		mol mol-1	mftc6en13	FZJiek8	N
mole fraction of trans-2-hexene in air		mol mol-1	mftc6en2	FZJiek8	N
mole fraction of terpinolene in air		mol mol-1	mfterpiolene	FZJiek8	N
mole fraction of trans-3-ethylmethylcyclopentane in air		mol mol-1	mftetmecyc5	FZJiek8	N
mole fraction of toluene in air	mole_fraction_of_toluene_in_air	mol mol-1	mftol	FZJiek8	N
surface upward mole flux of carbon dioxide	surface_upward_mole_flux_of_carbon_dioxide	mol m-2 s-1	mfxuco2s	TUBSgeo	N
mole fraction of z-beta-ocimene in air		mol mol-1	mfbocim	FZJiek8	N
mass concentration of organic carbon dry aerosol particles in air		kg m-3	mocda	SenUVKB	N
number concentration of ambient aerosol particles in air	number_concentration_of_ambient_aerosol_particles_in_air	m-3	ncaa	FZJiek8, TUBSgeo	N
nocturnal cooling rate		K h-1	ncr	SenSWB	N
number concentration of ultrafine ambient aerosol particles in air		m-3	ncufpa	FZJiek8, TUBSgeo,	N
rain drop number density		m-3	nr	LUHimuk	N
normalized downwelling photon radiance due to backscattering		1	nrdpb	TUBklima	N
surface downwelling photosynthetic photon flux in air	surface_downwelling_photosynthetic_photon_flux_in_air	mol m-2 s-1	pard	TUDDmeteo	N
surface upwelling photosynthetic photon flux in air	surface_upwelling_photosynthetic_photon_flux_in_air	mol m-2 s-1	paru	TUDDmeteo	N
pavement type classification		1	pavement_type	LUHimuk	N
aerodynamic particle diameter	aerodynamic_particle_diameter	1e-6 m	pd_ad	TUBklima	N
air pressure	air_pressure	hPa	plev	LUHimuk	Y
particle radius		m	pr	LUHimuk	N
precipitation amount	precipitation_amount	mm	precip	hdcp2	N
sea water potential density		kg m-3	prho	LUHimuk	N
precipitable water	atmosphere_mass_content_of_water_vapor	kg m-2	prw		Y
surface air pressure	surface_air_pressure	hPa	ps		Y
particle surface area		1e-12 m-2	psa	FZJiek8	N
platform speed wrt ground	platform_speed_wrt_ground	m s-1	pswrtg	FZJiek8	N
platform speed wrt air	platform_speed_wrt_air	m s-1	pswrtair	TUBklima	N
water vapor partial pressure in air	water_vapor_partial_pressure_in_air	hPa	pvw	TUBklima	N
cloud water mixing ratio	cloud_water_mixing_ratio	kg kg-1	qc	LUHimuk	N
liquid water mixing ratio	liquid_water_mixing_ratio	kg kg-1	ql	LUHimuk	N
cloud droplets weighting factor		1	qlvp	LUHimuk	N
rain water mixing ratio		kg kg-1	qr	LUHimuk	N
surface layer humidity scale		kg kg-1	qs	LUHimuk	N
aerodynamic resistance	aerodynamic_resistance	m s-1	r_aero	LUHimuk	N
surface resistance		m s-1	r_surf	LUHimuk	N
clear sky longwave radiative heating rate		K h-1	rad_lw_cs_hr	LUHimuk	N
longwave radiative heating rate		K h-1	rad_lw_hr	LUHimuk	N
clear sky shortwave radiative heating rate		K h-1	rad_sw_cs_hr	LUHimuk	N
shortwave radiative heating rate		K h-1	rad_sw_hr	LUHimuk	N
rainfall duration		s	radu	FZJiek8	N
air density	air_density	kg m-3	rho	LUHimuk	N
sea water density	sea_water_density	kg m-3	rho_sea_water	LUHimuk	N
downwelling longwave flux in air	downwelling_longwave_flux_in_air	W m-2	rid	TUBklima	N
surface downwelling longwave flux in air	surface_downwelling_longwave_flux_in_air	W m-2	rids		Y
upwelling longwave flux in air	upwelling_longwave_flux_in_air	W m-2	riu	TUBklima	N
surface upwelling longwave flux in air	surface_upwelling_longwave_flux_in_air	W m-2	rius		Y
surface net downward radiative flux	surface_net_downward_radiative_flux	W m-2	rnds	DWD	N
downwelling shortwave flux in air	downwelling_shortwave_flux_in_air	W m-2	rsd	hdcp2	N
diffuse downwelling shortwave flux in air	diffuse_downwelling_shortwave_flux_in_air	W m-2	rsddf	TUBklima	N
direct downwelling shortwave flux in air	direct_downwelling_shortwave_flux_in_air	W m-2	rsddir	TUBklima	N
surface downwelling shortwave flux in air	surface_downwelling_shortwave_flux_in_air	W m-2	rsds		Y

upwelling shortwave flux in air	upwelling_shortwave_flux_in_air	W m-2	rsu	TUBKlima	N
surface upwelling shortwave flux in air	surface_upwelling_shortwave_flux_in_air	W m-2	rsus		Y
radiative flux ultraviolet a		W m-2	ruva	USIfk	N
radiative flux ultraviolet b		W m-2	ruvb	USIfk	N
soil type classification		1	soil_type	LUHimuk	N
soil type	soil_type	1	soil_type	LUHimuk, TUBKlima	N
duration of sunshine	duration_of_sunshine	s	ssdu	TUBKlima	N
surface scalar flux		kg kg-1 m s-1	ssws	LUHimuk	N
indoor temperature		degree_C	t_indoor	LUHimuk	N
land water temperature		degree_C	t_lw	FUBmeteo, TUBKlima	N
mean radiant temperature		degree_C	t_mrt	LUHimuk	N
perceived temperature		degree_C	t_perceived	LUHimuk	N
physiological equivalent temperature		degree_C	t_pet	LUHimuk	N
soil temperature	soil_temperature	degree_C	t_soil	TUBKlima, LUHimuk	N
universal thermal climate index		degree_C	t_utci	LUHimuk	N
virtual acoustic temperature		K	t_va	TUBKlima	N
air temperature	air_temperature	degree_C	ta		Y
brightness temperature	brightness_temperature	K	tb	hdcp2	N
dew point temperature	dew_point_temperature	degree_C	tdps	TUBKlima	Y
thickness of hail amount		mm	tha	FZJiek8	N
air potential temperature	air_potential_temperature	K	theta		Y
liquid water potential temperature		K	thetal	LUHimuk	N
surface layer temperature scale		K	thetas	LUHimuk	N
virtual air potential temperature	virtual_temperature	K	thetav	LUHimuk	N
troposphere mole content of nitrogen dioxide	troposphere_mole_content_of_nitrogen_dioxide	mol m-2	tmcnd	TUBSgeo	N
thickness of rainfall amount	thickness_of_rainfall_amount	mm	traa	FZJiek8	N
mole fraction of ozone in air	mole_fraction_of_ozone_in_air	mol mol-1	tro3		Y
surface temperature	surface_temperature	K	ts		Y
u wind component		m s-1	u	LUHimuk	N
eastward wind	eastward_wind	m s-1	ua		Y
upward flux of ultrafine ambient aerosol particles in air		m2 s-1	ufluxufp	TUBSgeo	N
u wind component geostrophic		m s-1	ug	LUHimuk	N
eastward kinematic latent heat flux in air		g kg-1 m s-1	uqv	TUBKlima	N
friction velocity		m s-1	us	LUHimuk	N
eastward kinematic sensible heat flux in air		K m s-1	utheta	TUBKlima	N
eastward northward kinematic momentum flux in air		m2 s-2	uv	TUBKlima	N
uv index		1	uv_index	LUHimuk	N
upward eastward kinematic momentum flux in air		m2 s-2	uw	TUBKlima	N
v wind component		m s-1	v	LUHimuk	N
northward wind	northward_wind	m s-1	va		Y
vegetation type classification		1	vegetation_type	LUHimuk	N
v wind component geostrophic		m s-1	vg	LUHimuk	N
northward kinematic latent heat flux in air		g kg-1 m s-1	vqv	TUBKlima	N
northward kinematic sensible heat flux in air		K m s-1	vtheta	TUBKlima	N
upward northward kinematic momentum flux in air		m2 s-2	vw	TUBKlima	N
w wind component	upward_air_velocity	m s-1	w	LUHimuk	N
large scale vertical velocity		m s-1	w_subs	LUHimuk	N
water type classification		1	water_type	LUHimuk	N
wind from direction	wind_from_direction	degree	wdir	hdcp2	N
divergence of transport of resolved turbulence kinetic energy due to pressure fluctuations		Pa m s-2	wpdz	LUHimuk	N
upward kinematic latent heat flux in air		g kg-1 m s-1	wqv	TUBKlima	N
mixing layer velocity scale		m s-1	ws	LUHimuk	N
wind speed	wind_speed	m s-1	wspeed	hdcp2	N
upward kinematic sensible heat flux in air		K m s-1	wtheta	TUBKlima	N
divergence of transport of resolved turbulence kinetic energy due to turbulence		m2 s-3	wuudz	LUHimuk	N
roughness length for momentum	surface_roughness_length_for_momentum_in_air	m	z0	LUHimuk	N
roughness length for heat	surface_roughness_length_for_heat_in_air	m	z0h	LUHimuk	N
cloud base altitude	cloud_base_altitude	m	zcb	hdcp2	N
convective boundary layer height based on maximum temperature gradient		m	zi_theta	LUHimuk	N
convective boundary layer height based on minimum sensible heat flux		m	zi_wtheta	LUHimuk	N
atmosphere boundary layer thickness	atmosphere_boundary_layer_thickness	m	zm1a		Y
ground level altitude	ground_level_altitude	m	zt	LUHimuk, TUBKlima	N