

CLM		Plant function types are already in UMD classification	UMD land cover type	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter	Description	Units	1	2	3	4	5	6	7	8	9	10	11	12	13	
pftname	Name of veg type		Evergreen needleleaf Forest	Evergreen Broadleaf Forest	Deciduous Needleleaf Forest	Deciduous Broadleaf Forest	Mixed Forest	Woodlands	Wooded Grassland	Closed Shrubland	Open Shrubland	Grassland	Cropland	Bare Soil	Urban	
z0mr	Ratio of momentum roughness length to canopy top height	none	0.055	0.055	0.055	0.055	0.055	0.055	0.12	0.12	0.12	0.12	0.12	0	0.12	
displar	Ratio of displacement height to canopy top height	none	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0	0.68	
dleaf	Characteristic leaf dimension	m	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0	0.04	
c3psn	photosynthetic pathway	0=c4, 1=c3	1	1	1	1	1	1	0	1	1	1	1	1	1	
vcmx25	max rate of carbosylation at 25 C	umol CO2/m2/s	43	75	43	51	51	43	24	17	17	24	50	0	50	
mp	Slope of conductance to photosynthesis relationship	none	6	9	6	9	9	6	5	9	9	5	9	9	9	
qe25	quantum efficiency at 25 C	umol CO2 / umol photon	0.06	0.06	0.06	0.06	0.06	0.06	0.04	0.06	0.06	0.04	0.06	0	0.06	
rhol(1)	visible leaf reflectance		0.07	0.1	0.07	0.1	0.1	0.07	0.11	0.1	0.1	0.11	0.11	0	0.11	
rhol(2)	near-IR leaf reflectance		0.35	0.45	0.35	0.45	0.45	0.35	0.58	0.45	0.45	0.58	0.58	0	0.58	
rhos(1)	visible stem reflectance		0.16	0.16	0.16	0.16	0.16	0.16	0.36	0.16	0.16	0.36	0.36	0	0.36	
rhos(2)	near-IR stem reflectance		0.39	0.39	0.39	0.39	0.39	0.39	0.58	0.39	0.39	0.58	0.58	0	0.58	
taul(1)	visible leaf transmittance		0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.05	0.05	0.07	0.07	0	0.07	
taul(2)	near-IR leaf transmittance		0.1	0.25	0.1	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	0	0.25	
taus(1)	visible stem transmittance		0.001	0.001	0.001	0.001	0.001	0.001	0.22	0.001	0.001	0.22	0.22	0	0.22	
taus(2)	near-IR stem transmittance		0.001	0.001	0.001	0.001	0.001	0.001	0.38	0.001	0.001	0.38	0.38	0	0.38	
xl	leaf/stem orientation index		0.01	0.25	0.01	0.25	0.25	0.01	-0.3	0.25	0.25	-0.3	-0.3	0	-0.3	
roota_par	rooting distribution parameter	1/m	7	7	7	6	6	7	11	7	7	11	6	0	6	
rootb_par	rooting distribution parameter	1/m	2	1	2	2	2	2	2	1.5	1.5	2	3	0	3	

#### Canopy height file

Parameter	Description	Units	1	2	3	4	5	6	7	8	9	10	11	12	13
top	canopy height	m	17	35	14	20	20	15.602	7.9751	0.5	0.5	0.5	0.5	0	7.1
bottom	canopy height	m	8.5	1	7	11.5	10	8.03089	4.16095	0.1	0.1	0.01	0.01	0	0