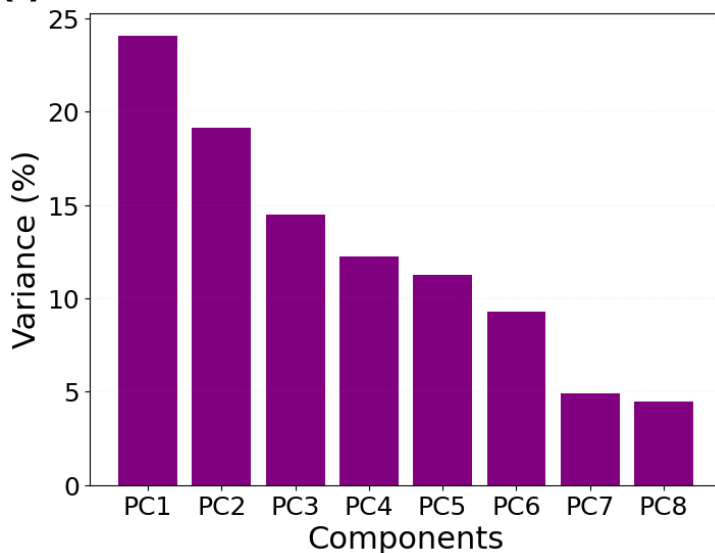


(a)



(b)

PCA inputs: 8 variables (differences between beginning and end of the trajectory, and along-trajectory means for CCFs: **WS, **q**, **ω** , and **EIS**)**

2 CCFs (SST and P_{MSL}) and cloud variables are excluded from PCA.

PC1	-0.03	-0.38	0.02	0.78	-0.43	-0.72	0.48	0.48	-0.07	-0.47	0.21	-0.04	-0.06	-0.17	0.15	-0.1
PC2	0.6	-0.56	0.23	0.39	-0.15	0.29	0	-0.74	-0.34	0.38	0.12	-0.05	-0.37	-0.19	0.02	0.19
	ΔWS_{10m} ($m s^{-1}$)	Δq ($g kg^{-1}$)	$\Delta \omega$ ($Pa s^{-1}$)	ΔEIS (K)	WS_{10m} ($m s^{-1}$)	q ($g kg^{-1}$)	ω ($Pa s^{-1}$)	EIS (K)	CF (%)	SST (° C)	P_{MSL} (hPa)	log(CERES LWP)	log(N_d)	log($< N_a >$)	MODIS CTH (km)	log(Precip)