

Supplementary Materials

for

Total electron content PCA-NN model for middle latitudes

by

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This file contains Supplementary Materials (SM) referenced in the main text:

Supplementary Table S1. Absolute values of the correlation coefficients $|r|$ between SWp. Only $|r| \geq 0.68$ with p values < 0.01 are shown. Correlation coefficients of SWp of the same type (IMF; solar wind; geomagnetic indices; solar UV and XR fluxes, and solar flares) have solid borders. Correlation coefficients between the coupling functions and other SWp have dashed borders.

	By	Bz	p	Dst	ap	AE	Kp	Kcoi	F10.7	XR	C.f.				
Bx	0.69														
n			0.75												
ap									0.74		0.85	0.89	0.86		
AE									0.75	0.85			0.86		
Kp									0.73	0.89	0.91		0.97		
Kcoi									0.68	0.86					
dΦ _{MP} /dt	0.83											0.75	0.87	0.75	0.69
E _{WAV}	0.85											0.72	0.79		
E _{WV}	0.82											0.78	0.80	0.7	
ε ₃	0.8											0.79	0.80	0.72	
E _{KLV}	0.74											0.79	0.79	0.74	0.69
E _{KL}	0.77											0.72	0.77	0.69	
v·Bs	0.85											0.7	0.76		
E _{SR}	0.76											0.77	0.72		
E _{TL}	0.75											0.73	0.68		
Mg II										0.79	0.82				
F10.7											0.84				
N.f.												0.98			