

<u>Variable</u>	<u>Trend</u>	<u>Impact</u>
GDI = CBI + MWI + II	↑	Increase in TS potential and intensity
$\mathbf{ME} = \theta_{e(C)} - \beta$	↑	Cooling and moistening in the mid-levels and warming and drying at the lower levels
$\mathbf{LE} = \theta_{e(A)} - \beta$	\	
$CBI = \gamma \times ME \times LE$ $(if \ LE > 0; else \ CBI = 0)$	-	Non-significant trends in CBI
$MWI = \mu \times (T_{500} - \tau)$ $(if T_{500} - \tau > 0; else MWI = 0)$	↑	Cooling of the mid-troposphere
$II_{\mathbf{D}} = \theta_{e(B)} - \theta_{e(A)}$	1	Relaxation of the vertical gradient of $ heta_e$
$II_S = T_{950} - T_{700}$	1	Increase in the vertical gradient of <i>T</i>
$II = \sigma \times (II_S + II_D)$ $(if \ II_S + II_D \le 0; else \ II = 0)$	↑	Decrease in convective inhibition
Vertical Windshear i.e., $ \vec{V}_{500} - \vec{V}_{850} $	↑	Better convective organization of TS, and enhances the longevity and intensity of MCSs

