Supplement of

Classification of large-scale environments that drive the formation of mesoscale convective systems over southern West Africa

Francis Nkrumah et al.

Correspondence to: Francis Nkrumah (francis.nkrumah@ucc.edu.gh) and Nana Ama Browne Klutse (nklutse@ug.edu.gh)

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Figure. S1. Total quantization error (gpm) of all grid points in the geopotential height patterns mapped to each SOM node.

Figure. S2. 12 UTC composites of 925-hPa geopotential height (shading; gpm) and 925-hPa winds (vectors; m s⁻¹) in 9 nodes based on SOM analysis. The purple box depicts the SWA region (5°–9°N, 10°W–10°E)
Figure. S3. 12 UTC composites of 650-hPa geopotential height (shading; gpm) and 650-hPa winds (vectors; m s$^{-1}$) in 9 nodes based on SOM analysis. The purple box depicts the SWA region (5°–9°N, 10°W–10°E).
Figure S4. 12 UTC composite anomalies of CIN for MCSs occurring in each type of large-scale environment determined by the SOM analysis over SWA. CIN anomalies are shown when they are significant at the 5% level.

Figure S5. 12 UTC 925-hPa geopotential height 95% confidence interval widths (shading; gpm) based on bootstrapping with 5000 resamples for the 9 node day groups based on the SOM analysis.