Title of Article: Simulated Analysis of soil heat flux using temperature deviation model
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Abstract: Soil compaction can be explained using basic properties of soil. Cohesive soil sample were collected from five major region of the main site of investigation. Unlike other method of analyzing soil compaction, temperature deviation curves were used as the determinant for testing for compaction. It was discovered also that the temperature deviation curves can be used to find the annual amplitude of the surface soil temperatures. Soils in Abuja displayed some degree of compaction except for Gwagwalada that showed negligible compaction. Garki location produced the highest compaction at 14cm depth. The highest annual amplitude of the surface soil temperatures was noticed in Kuje and the lowest in Bwari.