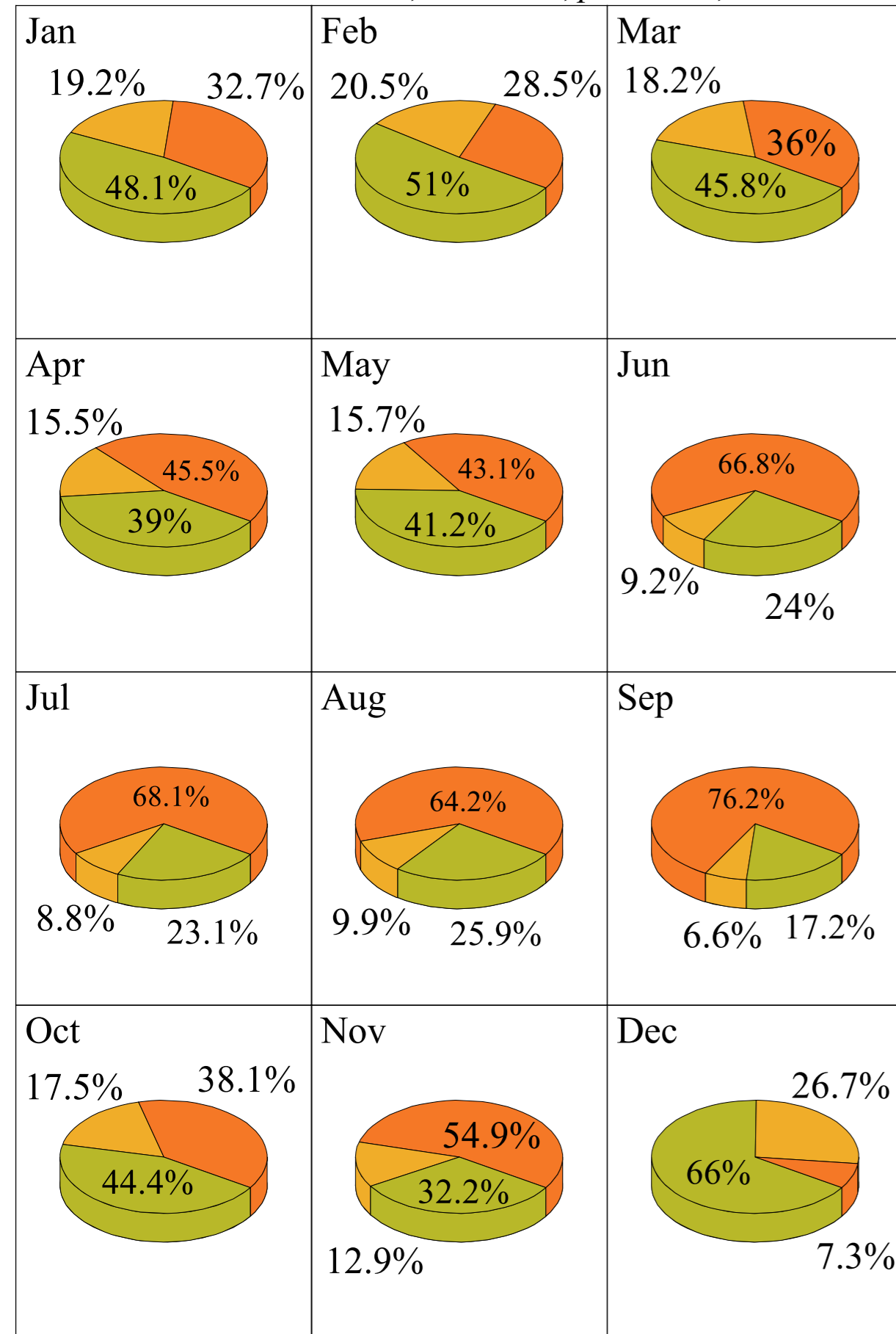


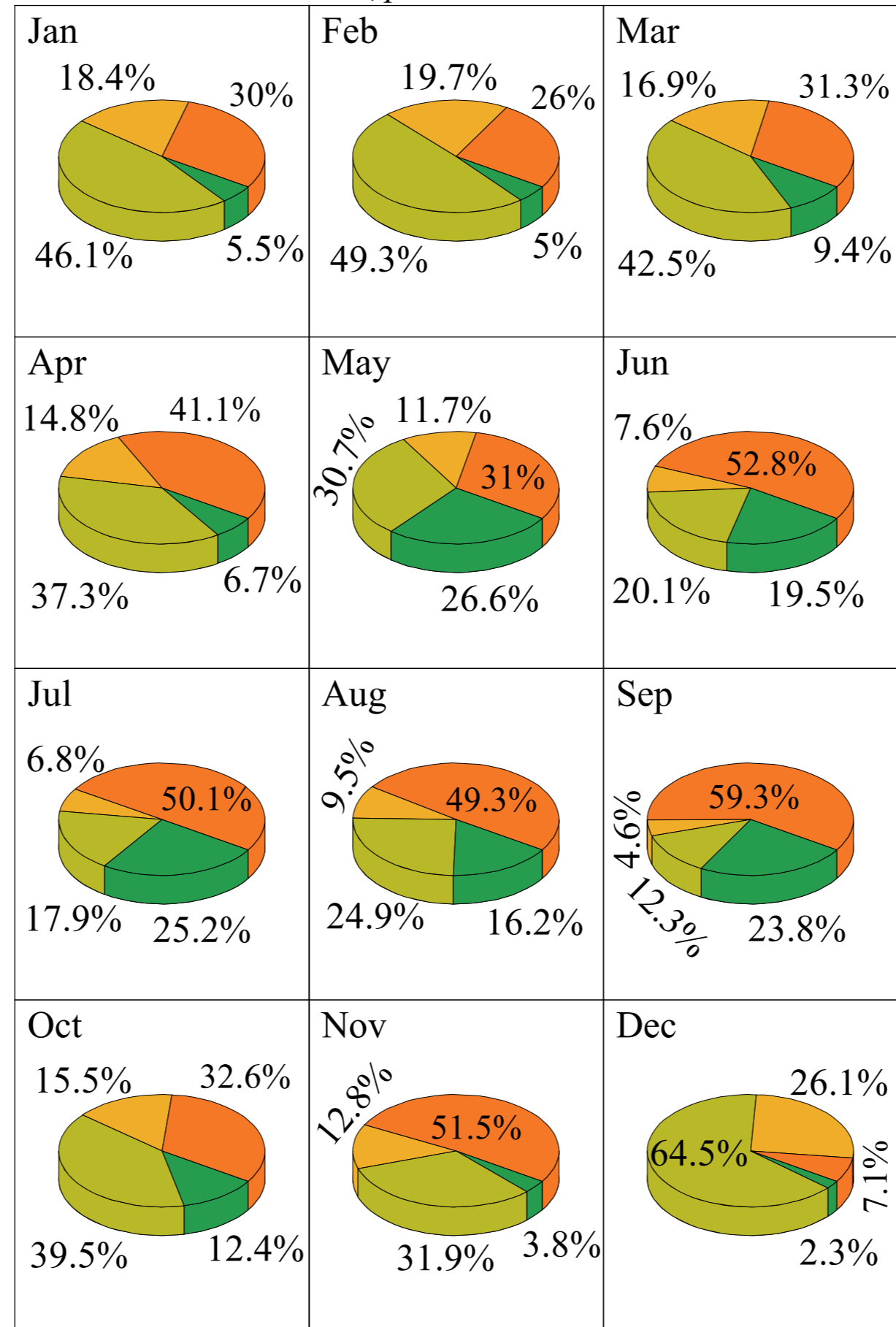
Original model

For observed and simulated TN during model validation, nRMSE = 51.67%; NSI = 0.80; $r^2 = 0.97$, $p < 0.001$, $n = 12$



Upgraded model

For observed and simulated TN during model validation, nRMSE = 42.55%; NSI = 0.86; $r^2 = 0.98$, $p < 0.001$, $n = 12$



Upgraded model

Components of PN

