1) DD, where: $\theta = 0.5[1 + \exp(-\alpha_1 d)]$

   $\alpha_1 = 0.005, 0.05, 0.1, 1, 2, 10$

2) PDD, where: $\theta = 0.5[1 + \exp\{(\alpha_2 \log(d)) - (\alpha_1 d)\}]$

   $\alpha_1 = 0.005, 0.05, 0.1, 1, 2, 10$

   $\alpha_2 = 0.05, 0.1, 0.5, 1$

3) DIR, where: $\theta = 0.5\left[1 + \exp\{(\alpha_3 \cos(\phi - \mu)) + (\alpha_4 \sin(\phi - \mu))\}\right]$

   where the pollution source is arbitrarily selected to emit a contaminant in the

   direction of the mean angle $\mu = \dfrac{\pi}{4}$ and where ϕ = the angle of the centroid

   from the pollution source,

   $\alpha_3 = 0.05, 0.1, 0.2, 0.5, 1, 2$

   $\alpha_4 = 0.05, 0.1, 0.2, 0.5, 1, 2$

4) DDIR, where: $\theta = 0.5\left[1 + \exp\{(\alpha_3 \cos(\phi - \mu)) + (\alpha_4 \sin(\phi - \mu)) - (\alpha_1 d)\}\right]$

   $\alpha_1 = 0.005, 0.05, 0.1, 1, 2, 10$

   $\alpha_3 = 0.05, 0.1, 0.2, 0.5, 1, 2$

   $\alpha_4 = 0.05, 0.1, 0.2, 0.5, 1, 2$

5) PDDIR, where:

   $$\theta = 0.5\left[1 + \exp\{(\alpha_3 \cos(\phi - \mu)) + (\alpha_4 \sin(\phi - \mu)) + (\alpha_2 \log(d)) - (\alpha_1 d)\}\right]$$

$\alpha_1 = 0.005, 0.05, 0.1, 1, 2, 10$

$\alpha_2 = 0.05, 0.1, 0.5, 1$

$\alpha_3 = 0.05, 0.1, 0.2, 0.5, 1, 2$

$\alpha_4 = 0.05, 0.1, 0.2, 0.5, 1, 2$