CLIM-319/GGS-319

HW # 3

1) Given the following general expression, C representing concentration value,

$$C = \frac{Q}{(2\pi)^{3/2}\sigma_x\sigma_y\sigma_z}\exp\left\{-\frac{1}{2}\left[\left(\frac{x-\bar{u}t}{\sigma_x}\right)^2+\left(\frac{y}{\sigma_y}\right)^2+\left(\frac{z}{\sigma_z}\right)^2\right]\right\}$$

Sketch the physical situation represented by the above equation. Show the location of the coordinate axes and identify all parameters appearing in the equation.