FORM TO SPECIFY INPUT DATA
FOR WIND-VELOCITY MODEL ULOGZ2

A logarithmic wind profile of the atmospheric boundary layer neglecting Coriolis forces. The eastward wind is given by

$$u_\phi = \frac{u_*}{k} \ln \frac{z}{z_0} \qquad \text{for} \qquad z > z_0 e$$

$$u_\phi = \frac{u_*}{k} \frac{z}{z_0 e} \qquad \text{for} \qquad z \leq z_0 e \ ,$$

where $z = G(r,\theta,\phi)$ is determined by the terrain model and is the height above or some kind of distance from the terrain, depending on the terrain model, and r is the radial coordinate of the ray point.

Specify--

the model check for ULOGZ2 = ____6.0____(W100)

the input data-format code = _____(W101)

an input data-set identification number = _____(W102)

an 80-character description of the wind velocity profile:

_____

the reference wind speed, u_* = _____km/s, m/s (W103)

von Kármán's constant, k = _____(W104) (.35 recommended)

the roughness height, z_0 = _____km (W105)

OTHER MODELS REQUIRED: Any wind-perturbation model. Use NPWIND if no perturbation is desired.

($\overline{uw} = -u_*^2$ is the surface stress at the ground.)