

FORM TO SPECIFY INPUT DATA FOR
RECEIVER-SURFACE MODEL RVERT

A receiver surface that is a vertical (conical) surface a constant distance from a given origin on the Earth's surface

$$f(r, \theta, \phi) = \sin \lambda_o \cos \theta + \cos \lambda_o \sin \theta \cos(\phi - \phi_o) - \cos \alpha_o$$

$$\frac{\partial f}{\partial t} = \frac{\partial f}{\partial r} = 0$$

$$\frac{\partial f}{\partial \theta} = -\sin \lambda_o \sin \theta + \cos \lambda_o \cos \theta \cos(\phi - \phi_o)$$

$$\frac{\partial f}{\partial \phi} = -\cos \lambda_o \sin \theta \sin(\phi - \phi_o) .$$

Specify--

3.0

the model check number for subroutine RVERT = ~~2.0~~ (W275)

the input data-format code number = _____ (W276)

an 80-character description of the model including parameters:

the distance of the surface from the origin,

$\alpha_o =$ _____ rad, deg, km (278)

the latitude of the origin, $\lambda_o =$ _____ rad, deg, km N (W279)

the longitude of the origin, $\phi_o =$ _____ rad, deg, km E (W280)

OTHER MODELS REQUIRED: none.