


```

52 *output.z0 = double(SpatialDist.exobase * sin(lat))
53 endif else begin
54   ;; Starting at a satellite
55   ;; Treats the satellite as if it were at phi = 0.
56   ;; 0 deg longitude = subsolar pt = (0, -1, 0)
57   ;; 90 deg longitude = leading pt = (-1, 0, 0)
58   ;; 270 deg longitude = trailing pt = (1, 0, 0)
59   ;; lon=0 -> sub-planet point; lon=90 -> leading point
60   *output.x0 = -double(SpatialDist.exobase * sin(lon)*cos(lat))
61   *output.y0 = -double(SpatialDist.exobase * cos(lon)*cos(lat))
62   *output.z0 = double(SpatialDist.exobase * sin(lat))
63 endelse
64
65 q = where(finite(*output.x0) EQ 0, nq) & if (nq NE 0) then stop
66 q = where(finite(*output.y0) EQ 0, nq) & if (nq NE 0) then stop
67 q = where(finite(*output.z0) EQ 0, nq) & if (nq NE 0) then stop
68
69 end
70

```