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Distribute packets in a torus centered on the central planet that is longitudinally
                                                                                                                                                                                                                                                                                                                                                                                                                                                 pro torus_distribution, geometry, spatialdist, options, seed, startloc=startloc
                                                                                                                                                                                                                                                                                                                 If r2 = 0, then packets are confined to the equatorial plane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      r1 = random_nr(seed=seed, npack)*(SpatialDist.torus_radii)[1]
r2 = random_nr(seed=seed, npack)*(SpatialDist.torus_radii)[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *startloc.x = (r0 + r1*cos(theta))*cos(phi)
*startloc.y = (r0 + r1*cos(theta))*sin(phi)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  theta = random_nr(seed=seed, npack)*2*!pi
r0 = (SpatialDist.torus_radii)[0]
                                                                                                                                                                                                            x = (r0 + r1*cos(theta))*cos(phi)
y = (r0 + r1*cos(theta))*sin(phi)
z = r2*sin(theta)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           phi = random_nr(seed=seed, npack)*2*!p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *startlog.z = r2*sin(theta)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             *startloc.latitude = theta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *startloc.longitude = phi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  npack = options.packets
                                                                                                                                                                                                                                                                                                                                                                                             2.0: File created.
                                                                                                                                                                                     Torus equation:
                                                                                                                                                                                                                                                                                                                                                                   ;; Version History
                                                                                                                                 symmetric.
                                                                              2222222
```