



## Intensity of Lightning Associated with TGFs

Andrew Collier (1,2), Thomas Gjesteland (3), and Nikolai Østgaard (3)

(1) SANSA Space Science, South Africa (collierab@gmail.com), (2) University of KwaZulu-Natal, Durban, South Africa, (3) University of Bergen, Bergen, Norway

Based on satellite observations and detailed modeling, it is currently believed that all terrestrial gamma-ray flashes (TGFs) observed in space are produced by cloud-to-cloud (CC) lightning. These lightning discharges are more frequent, yet generally less intense, than cloud-to-ground (CG) lightning. The World Wide Lightning Location Network (WWLLN) has recently developed the capacity to estimate the energy yield from a lightning discharge. Using an extended catalog of RHESSI TGFs, we examine the energy of lightning discharges associated with TGFs relative to the population of other nearby lightning discharges.