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Contribution ID: **21** Type: **Poster Presentation**

TGFS: Power of source lightning strokes

Tuesday, 10 July 2012 17:30 (2 hours)

Abstract content
   (Max 300 words)

Terrestrial Gamma-ray Flashes (TGFs) are brief bursts of gamma-rays originating in the Earth's atmosphere and observed on Low Earth Orbit (LEO) satellites. TGFs have a hard spectrum which extends from less than 25 keV to over 20 MeV. The main production mechanism of these bursts of photons is not yet fully resolved. Lightning discharges within 300 km of the sub-satellite point have been found to be closely associated with TGFs. Previous analyses have used World Wide Lightning Location Network (WWLLN) data to geolocate the probable location of TGF source lightning. Recent WWLLN data now also include an indication of lightning power. The distribution of source lightning power will be presented.

Apply to be
 consider for a student
   award (Yes / No)?

Yes

Level for award
 (Hons, MSc,
   PhD)?

PhD

Main supervisor (name and email)
and his / her institution

Andrew B. Collier/collierab@gmail.com/University of KwaZulu-Natal, South Africa.

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

NO

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Session Classification: Poster Session

Track Classification: Track D2 - Space Science