

SPARTAN Sprite-Watch Campaign 2007

A. Odzimek¹, L. B. N. Clausen¹, V. Kanawade¹, I. Cnossen¹, N. Edberg¹, F. Faedi¹, A. Del Moro¹, U. Ural¹, K. Byckling¹, P. Krzaczkowski², R. Iwanski³, P. Struzik³, M. Pajek³ and W. Gajda⁴

¹ Department of Physics and Astronomy, University of Leicester, U.K.

² High-Mountain Meteorological Observatory at Sniezka, Karpacz, Poland

³ Satellite Remote Sensing Centre, Institute of Meteorology and Water Management, Krakow, Poland

⁴ Ground-based Remote Sensing Department, Institute of Meteorology and Water Management, Warsaw, Poland

Nine PhD students and SPARTAN (Centre of Excellence for Space, Planetary and Astrophysics Research Training and Networking) fellows implemented and participated in the SPARTAN Sprite-Watch campaign to observe Transient Luminous Events (TLEs) and contribute to the EuroSprite 2007 observation campaign. One SPARTAN Sprite-Watch team installed an observation system at the IMWM High-Mountain Meteorological Observatory at Mount Sniezka (50.73 N, 15.74 E, 1603 m) to run first optical observations of TLEs from Poland during two weeks in July 2007. A second team made observations during four weeks in July/August 2007 in Leicester, UK, using two remotely controlled systems installed by the Danish National Space Centre/Technical University of Denmark at two locations in France. The observations made at Sniezka resulted in the first video recordings of red sprite phenomena from Poland on the night 20/21 July 2007. The SPARTAN Sprite-Watch teams have been supported by the Polish Institute of Meteorology and Water Management who provided continuous information on the meteorological conditions over Poland and Europe and hosted the Polish campaign at Sniezka.