



TLEs Observations during the summer and fall Eurosprite 2007 campaign in South-Western France and North-Eastern Spain

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During the summer and the fall of 2007, several low-light cameras for TLEs observation were deployed in different sites of South-Western France and North-Eastern Spain. Some were located in altitude (Pic du Midi, 2877m; La Molina, 2537m) and other in plain areas (Lannemezan, 600m; Toulouse, 150m). The most favourable period was October and November with several storms located over Mediterranean Sea. A maximum of 65 events including a majority of sprites and one elfe were detected during the night of 11-12 October while a storm was active in the Balearic Islands area. The colour camera of Pic du Midi detected a sprite that night. Another night of October (16-17) was particularly productive in sprites with 41 events. During the night of 15-16 November around 30 events were detected with several haloes and elves over a storm located close to Corsica. Late in the season, during two nights of December (16-17 and 17-18), several events with an unusual amount of elves and haloes were detected over wintery thundershowers in the western Mediterranean Sea. A good proportion of the events were simultaneously detected by two cameras, allowing a triangulated location. The analysis takes into account the cloud-to-ground lightning activity associated with the sprites and elves.