

The 2011 Draconids outburst: UCM group results from Spain



Francisco Ocaña

J.Zamorano, A. Sánchez de Miguel, J. Izquierdo,
M. F. Palos, B. Muñoz-Ibáñez and A. Santamaría

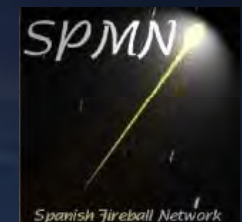
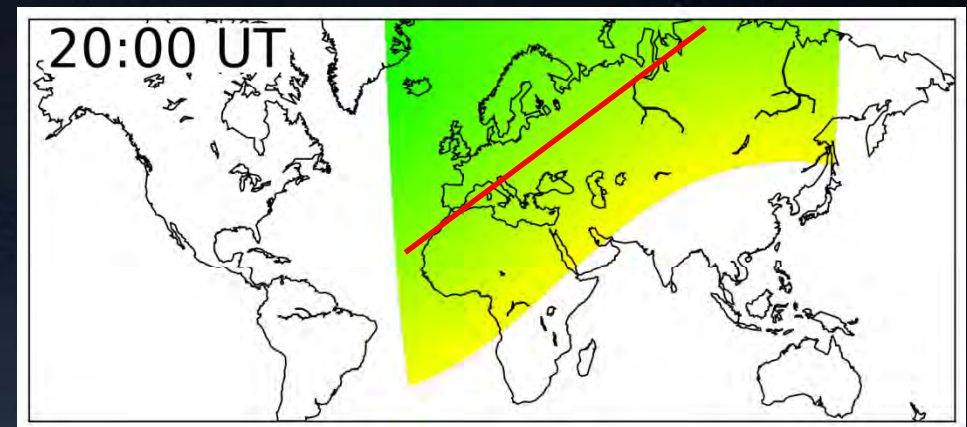


Observatorio de Sierra Nevada

IAA facilities

@ 2900m high

> 40° radiant elevation

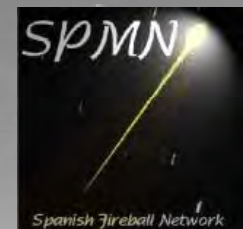


from 18:34 UT to 23:00 UT
5 cameras at OSN
+ DSLRs



Observatorio UCM

7 cameras covering all-sky

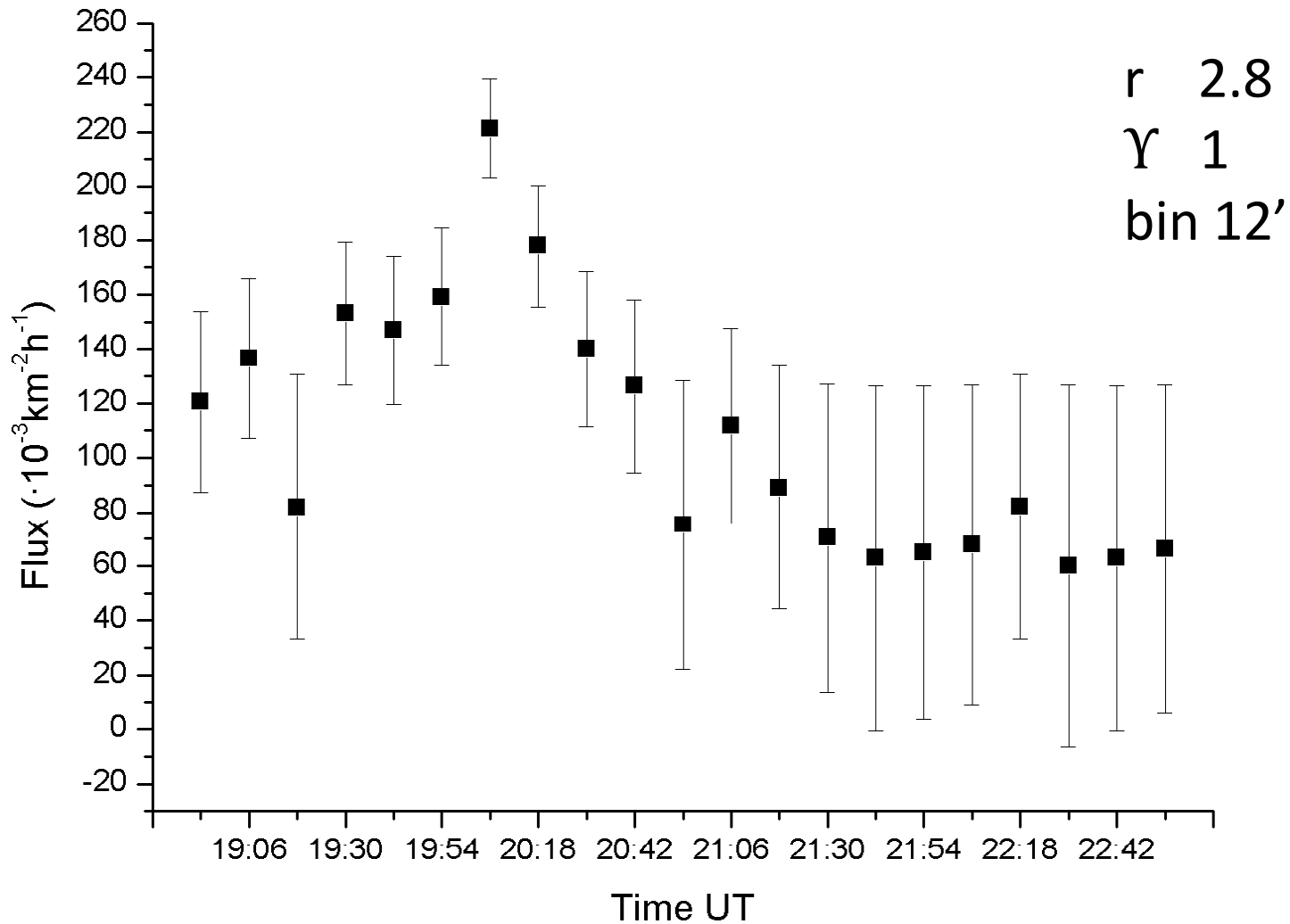


2011/10/08 20:00:00.0 UTC SPMN UCM MADRID 05 E Y000000+000

Dungeons & Draconids (&Fellows!)



Flux density determination



Flux density determination

$220 \pm 50 \cdot 10^{-3}$ meteoroids $\text{km}^{-2} \text{h}^{-1}$ at 20h06m UT

$110 \cdot 10^{-3}$ meteoroids $\text{km}^{-2} \text{h}^{-1}$ at 20h10m UT by
IMONET

$95 \pm 20 \cdot 10^{-3}$ meteoroids $\text{km}^{-2} \text{h}^{-1}$ at 20h00m UT
by SPMN (Trigo et al. , EPSC 2012).

Balloon launch with
scientific payload for
Draconids 2011

