Supplement of Nat. Hazards Earth Syst. Sci., 16, 509–528, 2016 http://www.nat-hazards-earth-syst-sci.net/16/509/2016/doi:10.5194/nhess-16-509-2016-supplement © Author(s) 2016. CC Attribution 3.0 License.





Supplement of

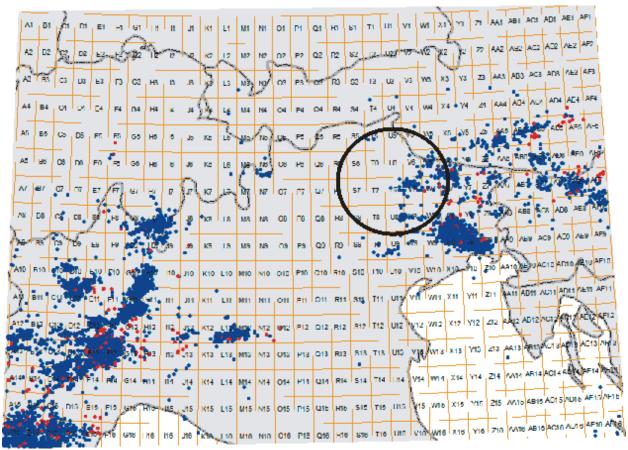
Atmospheric circulation patterns, cloud-to-ground lightning, and locally intense convective rainfall associated with debris flow initiation in the Dolomite Alps of northeastern Italy

S. Jeffrey Underwood et al.

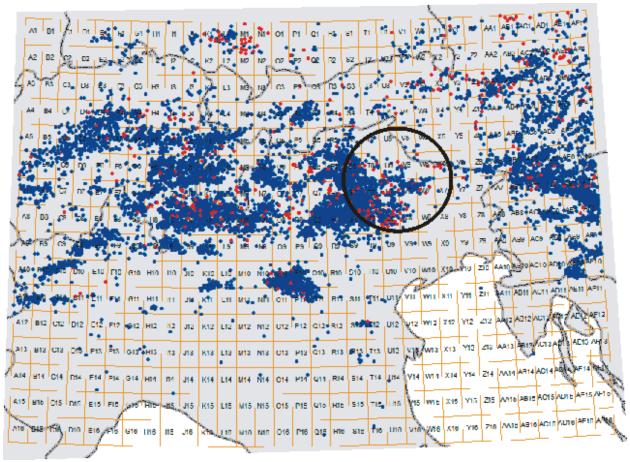
Correspondence to: S. Jeffrey Underwood (sjunderwood@georgiasouthern.edu)

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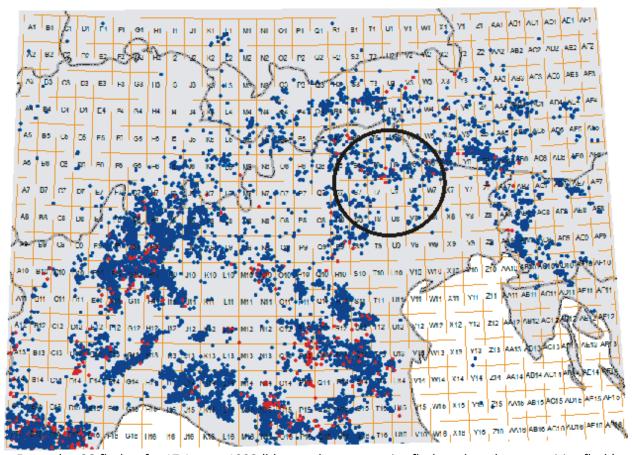
Supplement S1



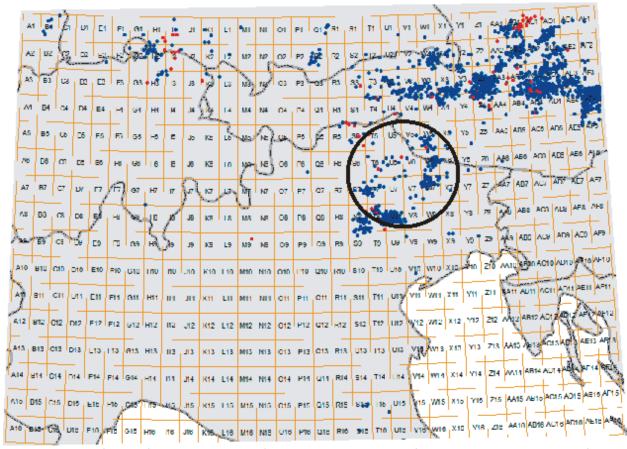
Event-day CG flashes for 7 August 1996 (blue markers = negative flash; red markers = positive flash)



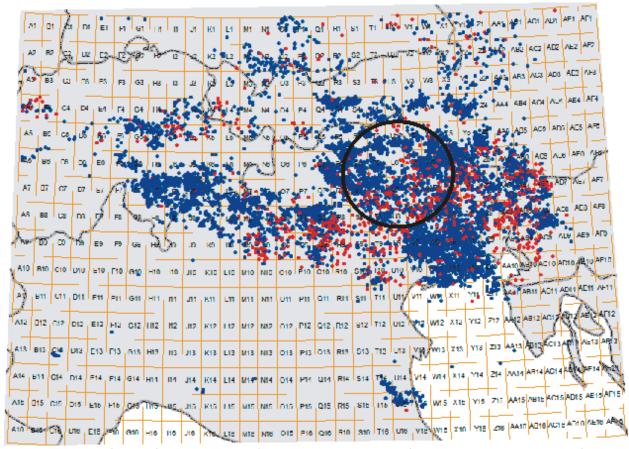
Event-day CG flashes for 12 June 1997 (blue markers = negative flash; red markers = positive flash)



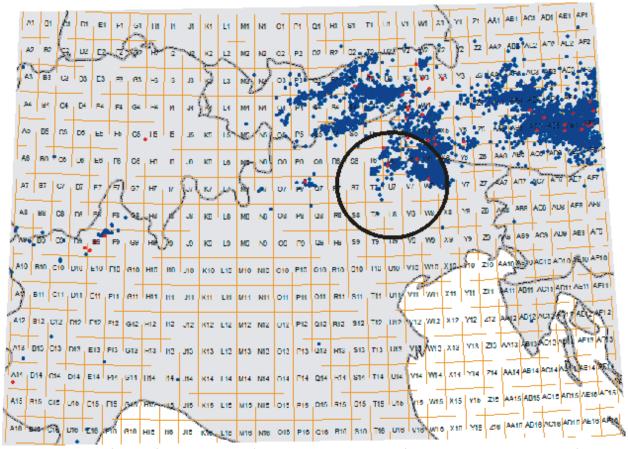
Event-day CG flashes for 17 August 1998 (blue markers = negative flash; red markers = positive flash)



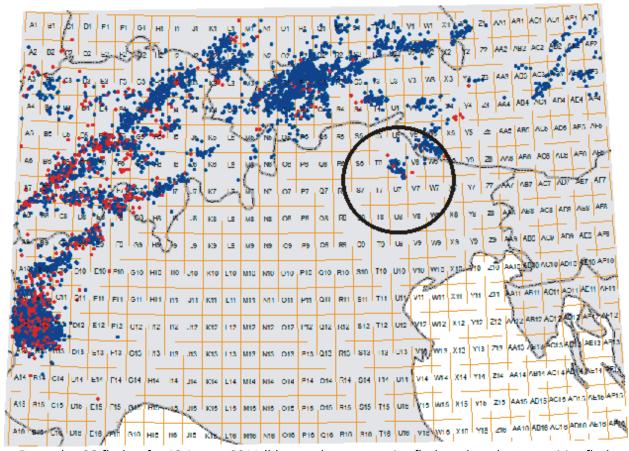
Event-day CG flashes for 20 August 1999 (blue markers = negative flash; red markers = positive flash



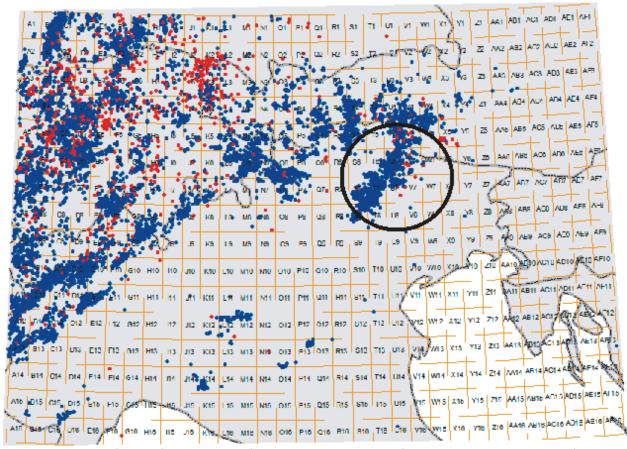
Event-day CG flashes for 30 June 2001 (blue markers = negative flash; red markers = positive flash



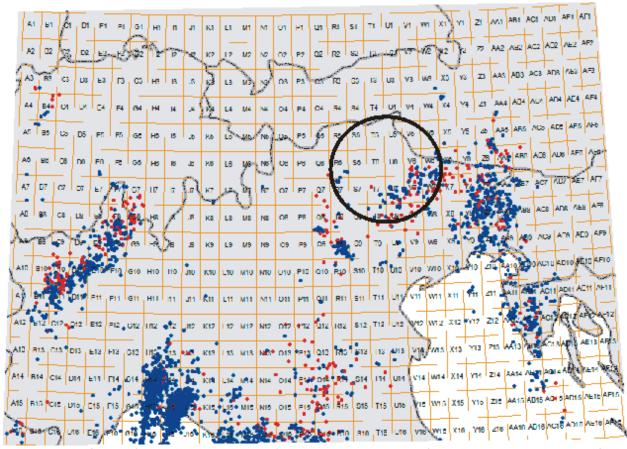
Event-day CG flashes for 19 July 2004 (blue markers = negative flash; red markers = positive flash



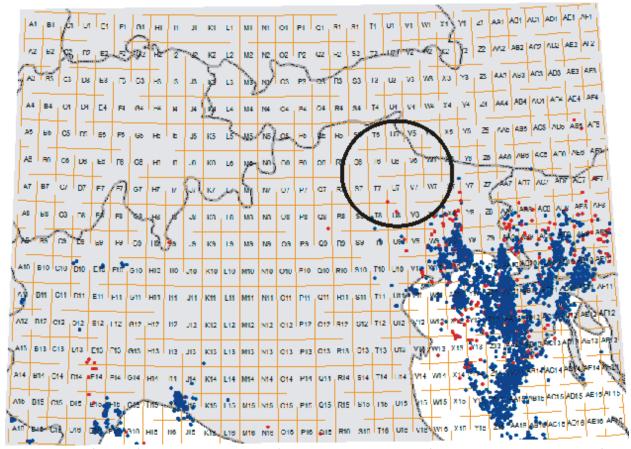
Event-day CG flashes for 18 August 2011 (blue markers = negative flash; red markers = positive flash



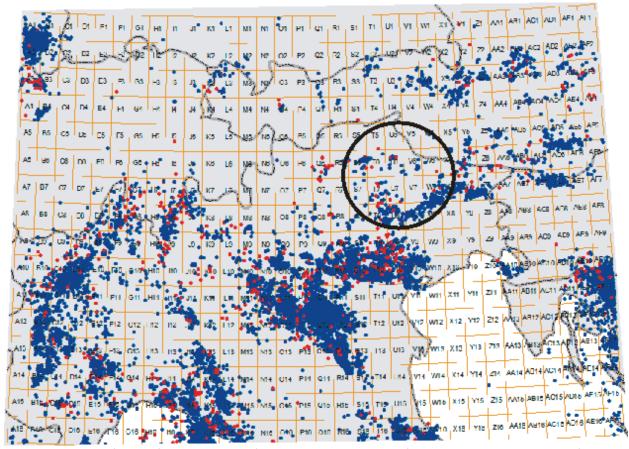
Event-day CG flashes for 5 July 2006 (blue markers = negative flash; red markers = positive flash



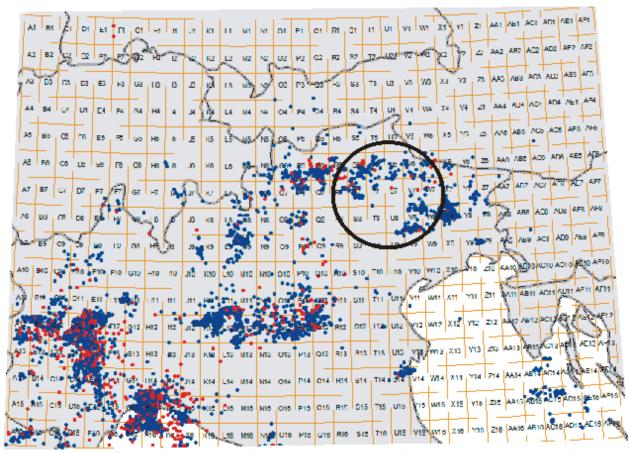
Event-day CG flashes for 20 September 1999 (blue markers = negative flash; red markers = positive flash



Event-day CG flashes for 30 September 2000 (blue markers = negative flash; red markers = positive flash

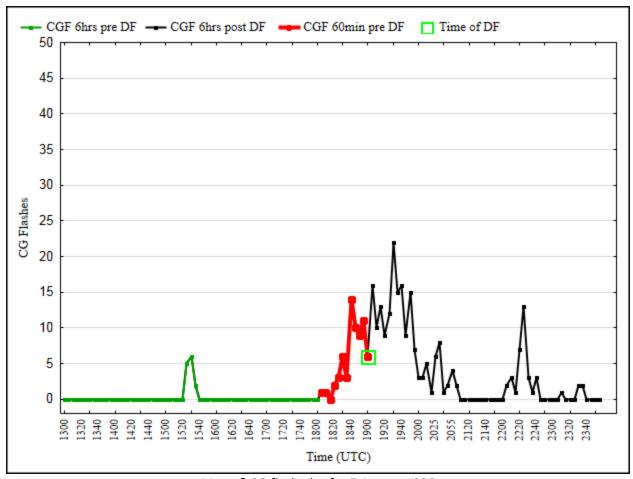


Event-day CG flashes for 28 July 1999 (blue markers = negative flash; red markers = positive flash

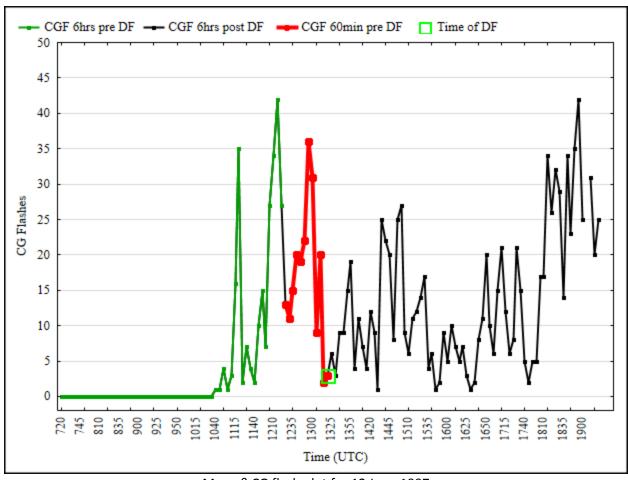


Event-day CG flashes for 4 July 2011 (blue markers = negative flash; red markers = positive flash

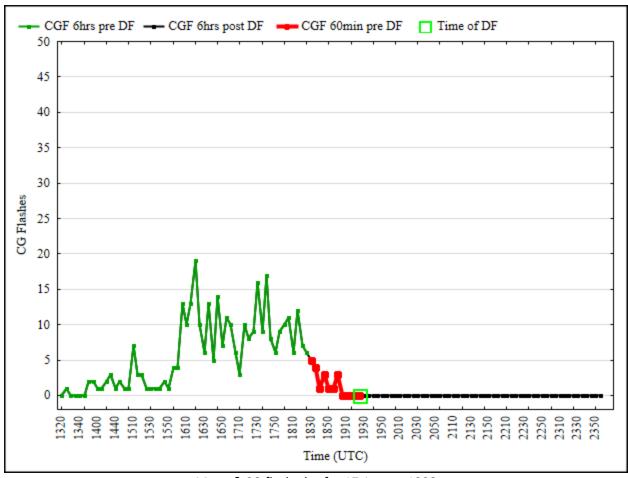
Supplement S2



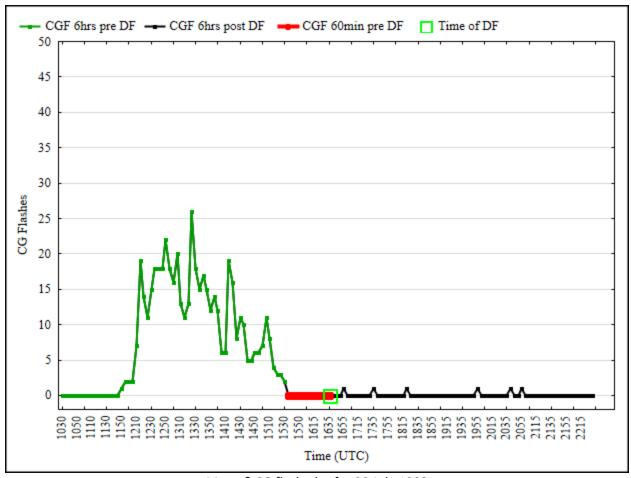
Meso-β CG flash plot for 7 August 1996



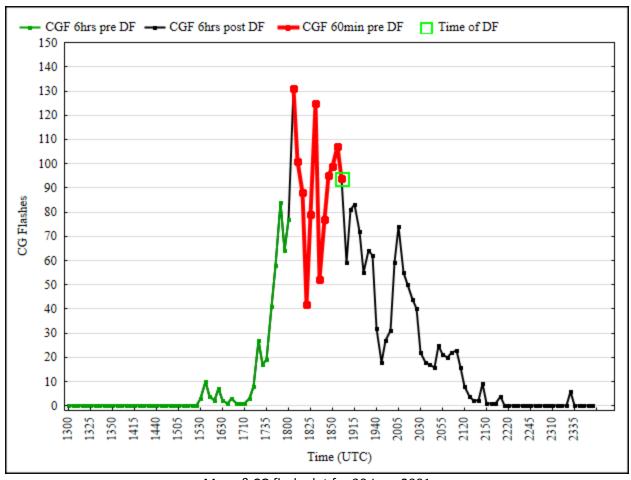
Meso-β CG flash plot for 12 June 1997



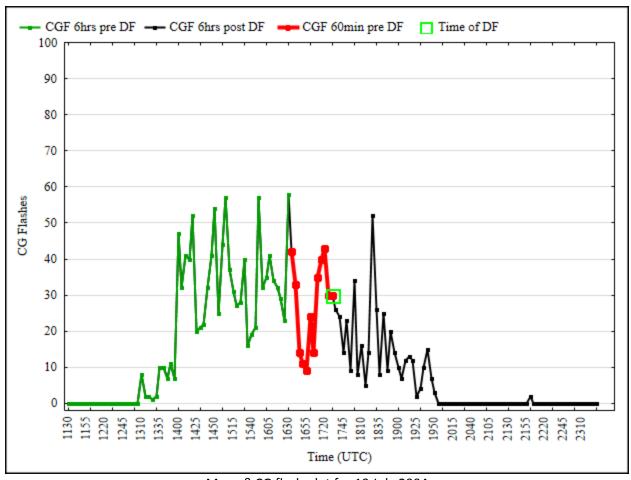
Meso-β CG flash plot for 17 August 1998



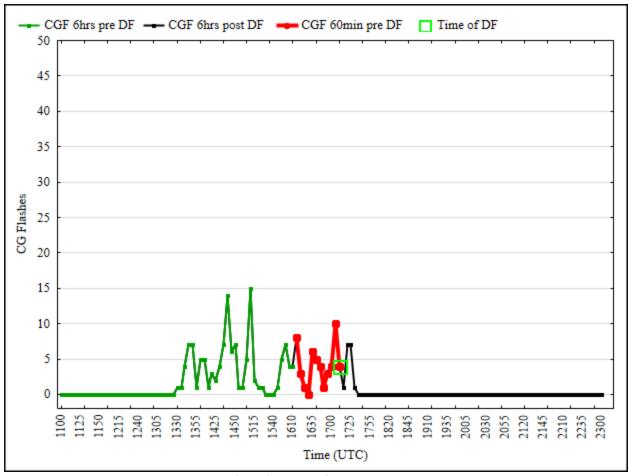
Meso-β CG flash plot for 20 July 1999



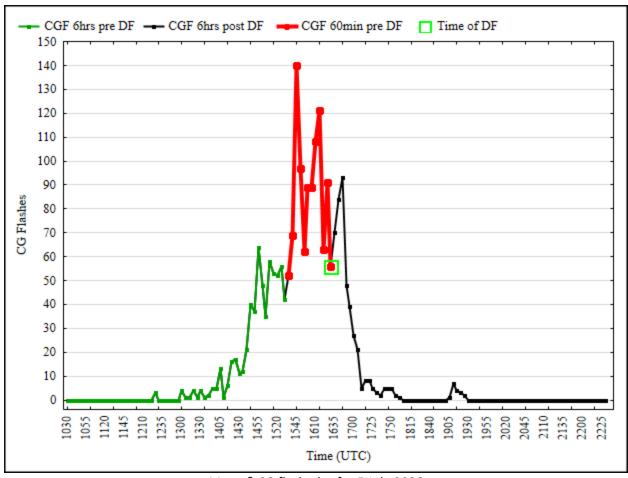
Meso-β CG flash plot for 30 June 2001



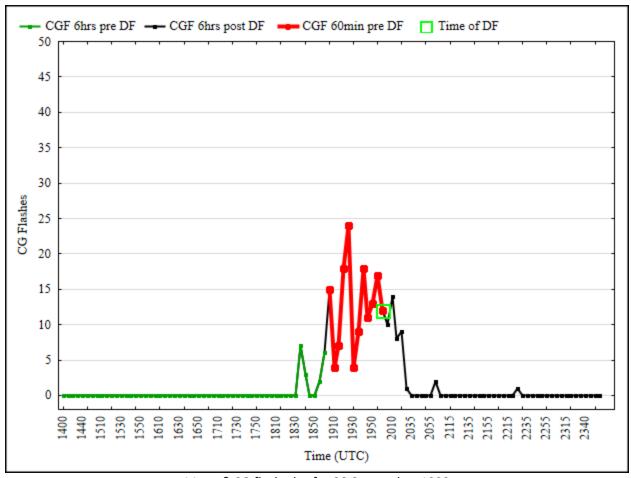
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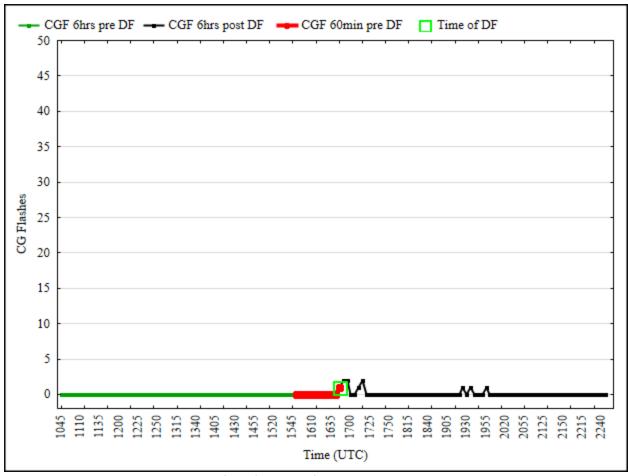
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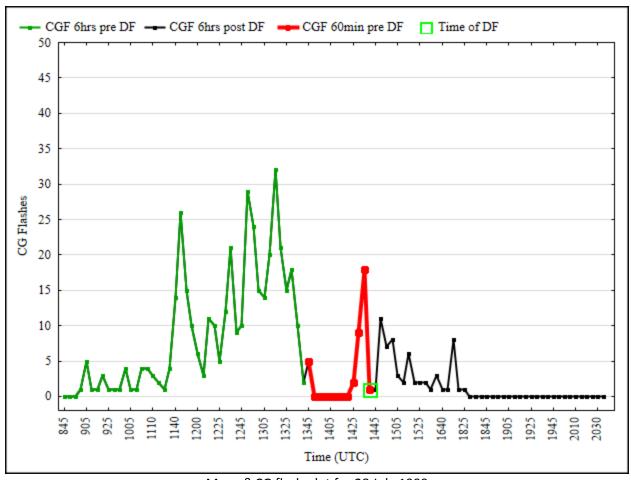
Meso-β CG flash plot for 5 July 2006



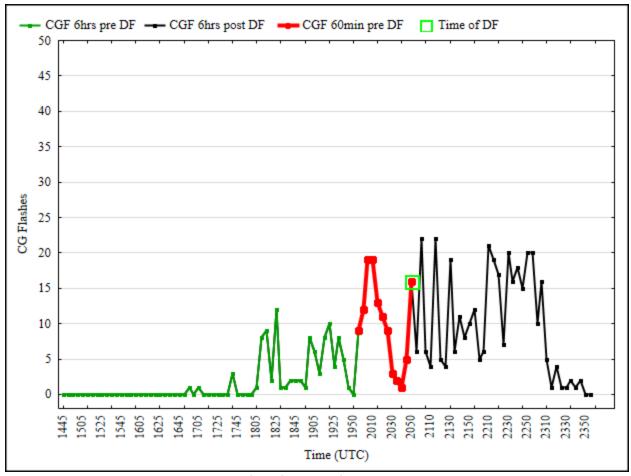
Meso-β CG flash plot for 20 September 1999



Meso-β CG flash plot for 30 September 2000



Meso-β CG flash plot for 28 July 1999



Meso-β CG flash plot for 4 July 2011