

## ***Interactive comment on “Tracing devastating fires in Portugal to a snow archive in the Swiss Alps: a case study” by Dimitri Osmont et al.***

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This is interesting work. Just a short comment in relation to the burned area estimate. The fire blowup, with extremely high rate of spread and pyCb formation and collapse that killed 66 people, occurred on the first day of its development. As such your 17th June burned area estimates are underestimated by one order of magnitude. According to our reconstruction (CTI 2017), resulting from the combination of various ground- and remote sensing-based information, burned area on the 1st and 2nd days was 128 and 211 km<sup>2</sup>, respectively. Thus remote sensing products did not detect fire growth nor peak FRP happening at about 19-21 h PM on the 17th, presumably because of the combination of dense smoke with thunderstorm clouds.

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