

Review of egusphere-2023-1224, revision 2

This is a much improved revision of the manuscript taking into account the comments of both reviewers. In particular the description of the case studies is more concise and the similarities and differences between the different cases is more clearly articulated. There is also an attempt to better explain the rationale for using the conceptual model. I still feel that while this is a very nicely documented case study it is somewhat incremental in terms of developing our scientific understanding. There is however sufficient novelty to merit publication. The paper does demonstrate that there could be some utility in using the conceptual model for very short range nowcasting. In very specific situations (e.g. aviation) the impact of fog and the need for advanced warning of fog dissipation might justify the cost of the instrumentation required. I have only some minor technical comments now, and once these are addressed, I am happy to recommend publication of the manuscript.

(Line numbers correspond to the track changes version submitted by the authors).

Line 137. "Meteo-France installed in a fallow field near the supersite, several sensors as Licor analyzers and sonic anemometers" -> "At a fallow field near the supersite Meteo France installed a sonic anemometer and Licor infra-red gas analyzer (IRGA)". Do you need to mention the Licor? You don't actually use that.

Line 261. "will persist in the coming minutes, hours (nowcasting tool for fog dissipation time)." -> "will persist in the coming minutes and hours (i.e. as a nowcasting tool for fog dissipation time)."

Line 335. "could be considered as a low-level jet". I raised this in my previous review, and the response is not entirely satisfactory. It *might* be a jet, but the observations presented don't actually show that. I would suggest some thing like "possibly due to a low-level jet" instead to make it clear that this is something you are hypothesising by analogy with IOP6 rather than something you know.

Line 345. "an horizontal visibility" -> "a horizontal visibility"

Line 373. "a continue increase in SHF" -> "a continued increase in SHF"

Line 443. "Fog adiabatic phase" -> "The fog adiabatic phase"