

Peer Review

Review of: "Solar Flare Spectroscopy at Pic du Midi Observatory (1956–1968) in the Frame of the International Geophysical Year"

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The manuscript is well-written and does an excellent job of summarizing the temporal evolution of the research conducted at the observatory, both from a historical and scientific perspective. While the paper may not introduce scientific advancements, it effectively summarizes the studies conducted and the technologies used, providing a comprehensive overview that might be valuable for future research. Given its well-structured nature and contribution to understanding the historical context of these observations, it is a valuable addition.

Below are my minor comments and suggestions:

Comments

- **Page 2:** I would suggest updating Figure 1 to include data up to 2025 and using a brighter shade of blue for the Ap index, as the current colors look too similar despite different line thicknesses.
- **Page 4:** The phrase “until 1990 when the observer retired” could be more specific. Could you clarify the identity of the observer or provide more context? The sentence is a bit vague as it stands.
- **Page 21:** “After 1980, if was decided” should be corrected to “After 1980, it was decided”.
- **Page 21:** I recommend adding some information to the conclusion regarding the current status and ongoing research at the Pic du Midi observatory to provide a more up-to-date context.

Questions

1. Have you considered making quantitative comparisons between the spectra obtained at Pic du Midi and those recorded at other international observatories during the IGY?
2. Are there any public archives or ongoing digitization projects to make the spectrograms collected between 1956 and 1968 accessible?
3. Have you considered including a summary table of the main events observed (e.g., notable flares), with their dates, spectral lines, and key characteristics?

Declarations

Potential competing interests: No potential competing interests to declare.