

## General comments

I consider extended assessment to be approximately one-year post-fire, to coincide with the peak of the following year's green-up. It seems like too broad a range to use the definition of 2-12 months post-fire, unless the fire occurred in spring and thus peak green up followed shortly thereafter. In that case, pre-fire imagery should be used from the previous year's growing season. Perhaps it would be sufficient to add more explanation of the difference between rapid, initial, and extended assessments, in addition to pure timelines, such as what each assessment attempts to capture and represent. This might fit well after line 57 in the introduction.

Related to the above, your definition of burn severity could be more clearly framed throughout the paper. Because burn severity can refer to fire effects from immediate to one or even multiple years post-fire, it's important to define what your goals are and what your end product is representing.

I disagree with the approach of averaging all dNBR values for an area which burned more than once. Assuming a long time had passed since any prior fire, it would make more sense to represent the severity of the first fire. On the other hand, if the area is adapted to frequent fire, the severity of most recent fire entry might be more relevant. However averaging yields a value that does not represent the effects of any fire event and is thus ecologically meaningless.

I would suggest giving more context on vegetation types and historical fire regimes in the introduction if possible. This is very helpful when it comes up in the discussion but would be nice to have a general sense of earlier on, especially for readers not super familiar with fire in Portugal.

## Line by line

Line 27 "climatic"

Line 48 add fuels, ie "changes on soil, vegetation, and fuels"

Line 53 "ash removal"

Line 115-119 don't need quotation marks

Line 134 does "fire date" refer to the start or end date of the fire? Or perhaps both, to fill in the Sdate and Edate values. Are progression data generally available?

Line 231 subject missing from sentence "in this case, \_\_\_ corresponds to images overlapping..."

Line 265 confusing grammar, missing something in this final sentence of the paragraph?

Line 470 "imaging" rather than "imagining"

Line 548 double negative, remove "no" or "neither"

Line 597-8 I suggest clarifying here the timeframe within which this finding is true (+/- 120 days).