CFA Research and Development

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Identifying and defining landscape dryness thresholds for fires



Thomas Duff

Indicators of fire



Temperature Vegetation

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 - Proxies
 - Remotely ser
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- Most of these lave some demonstrated coree





A Cautionary Note Regarding the Use of Cumulative **Burnt Areas for the Determination of Fire Danger Index Breakpoints**

F. Pimont ^{ID} ^A, J. Ruffault^A, N.K. Martin-StPaul^A and J.-L. Dupuy^A

Fit for Purpose???



- Depends on what the purpose is....
- Many approaches are being applied outside their development range
- The is often more than one purpose
- E.g. For McArthur's Forest Fire Danger:
 - Suppressibility
 - Forward Rates of Spread
 - Intensity
 - Probability of any fires
 - Probability of uncontrollable fires
 - Severity (Drought Factor)





Fit for Purpose?

- Scientific evidence is not necessarily fit for decisions
- For decision making:
 - Tolerance to error may vary
 - Overall model performance may be less important the ability to discriminate at key times
 - Generally need to predict the future
 - Consequences can be high
- For robust decision making we need to know what our models are telling us



Victorian government pledges \$500m to reduce

bushfire risk, waives tourist entry fees for







What is this project seeking to do

- Review and describe landscape dryness metrics
- Determine the uses and decisions we're making using dryness metrics
- For each decision, look at what our knowledge needs are (sensitivity to detecting an event etc.) and how well they are being filled by existing metrics
- Make recommendations on how pathways for improvement







Seeking Expressions of Interest soon!