THE AUSTRALIAN FLAMMABILITY MONITORING SYSTEM

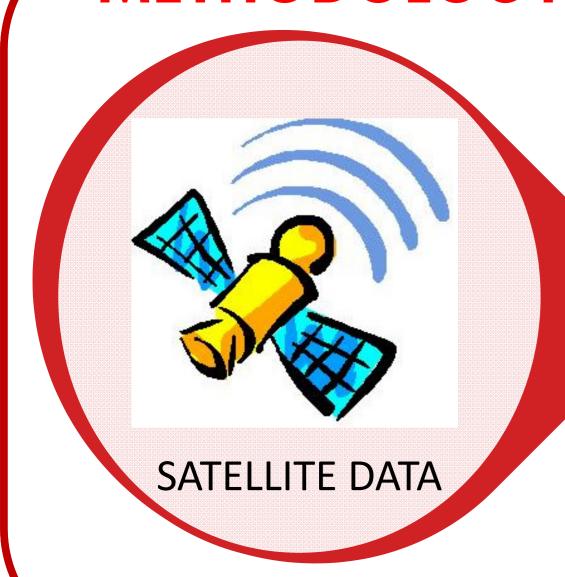


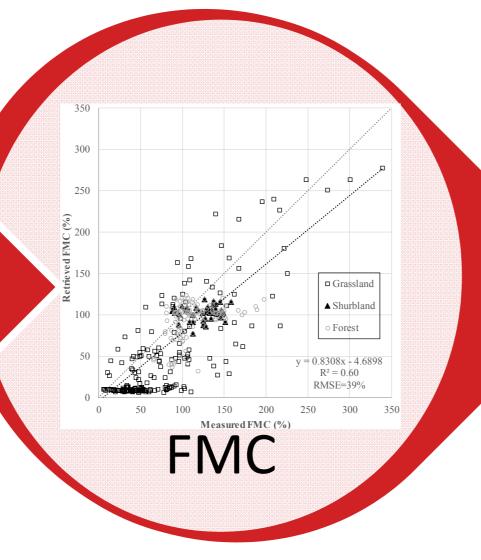
Marta Yebra^{1,2}, Albert Van Dijk^{1,2}, Geoff Cary^{1,2}, Xingwen Quan³, Joel Rahman⁴, Zac Hatfield Dodds¹, Christopher Tapper¹, and Pablo Rozas⁵

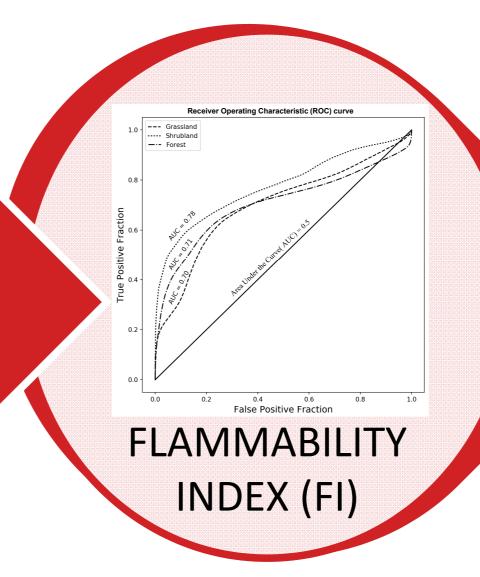
¹ Fenner School of Environment and Society, Australian National University, College of Medicine, Biology and Environment, ACT; ² Bushfire and Natural Hazards CRC; ³University of Electronic Science and Technology of China, Chengdu.; ⁴ Flow Matters Pty Ltd; ⁵ National Computing Infrastructure, Australian National University.

THE FIRST NATIONAL-SCALE, PRE-OPERATIONAL, NEAR-REAL TIME LIVE FUEL MOISTURE CONTENT (FMC) AND FLAMMABILITY MONITORING SYSTEM FOR AUSTRALIA

METHODOLOGY







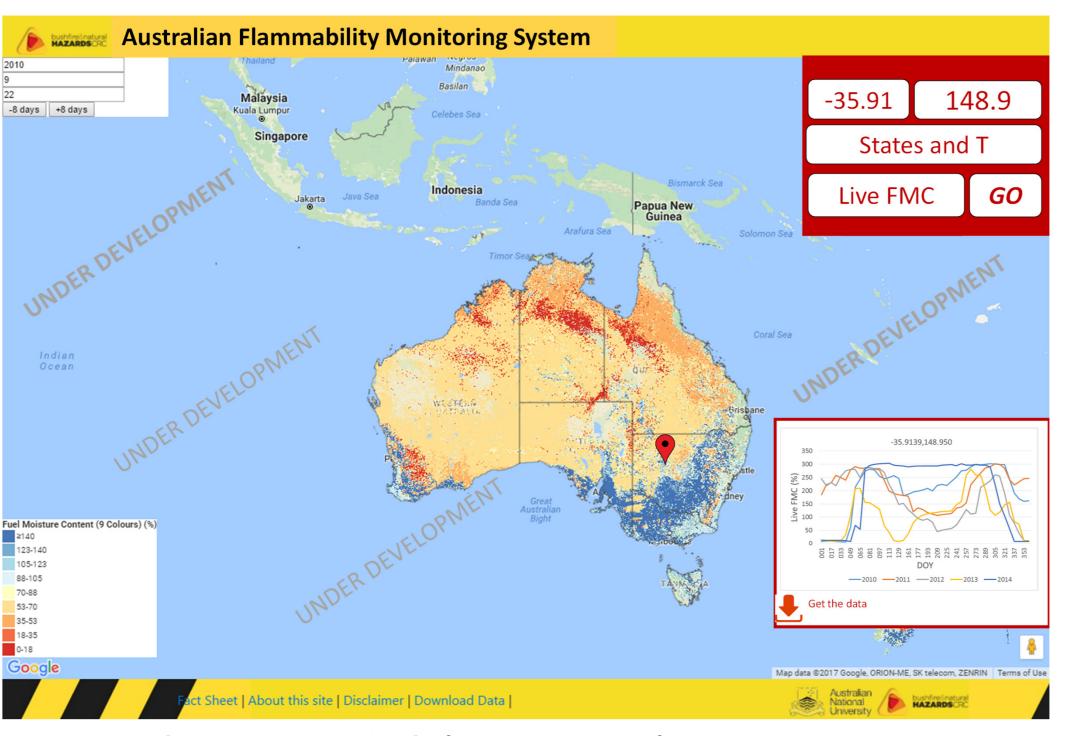


 FMC_{t-1} , FMC_{t-1} - FMC_{t-2} and Anomaly

AFMS EXPLORER

http://wenfo.org/afms/

MAKES SPATIAL INFORMATION ON FMC AND FLAMMABILITY EASIER AND FASTER TO ACCESS



Change in FMC for an specific location.

- Data currently displayed: FMC, uncertainty in the FMC estimates, a Flammability Index (500 m pixel size), near surface fuel moisture content and information on past fires (occurrence, intensity and burn extent)
- The AFMS offers advanced functions for professional users to interrogate the data and download options.
- Offers the flexibility to incorporate other relevant spatial information that might be currently available (e.g. fire weather, grassland curing)
- Please browse the explorer and send us your feedback! marta.yebra@anu.edu.au

END USER STATEMENT. 'The new technology described here has enormous potential to improve the efficiency of bushfire operations across Australia and drive an expansion of our capability. The provision of accurate, spatially explicit, near real-time estimates of FMC and flammability at a range of spatial resolutions would permit more accurate targeting of scarce bushfire fighting resources in time and space. It would no longer be necessary to estimate jurisdiction-wide readiness based on anecdotal extrapolation of conditions at a few locations'. **Adam Leavesley, ACT Parks and Conservation Service**







