ACCESS-Fire

Research Advisory Forum
Perth 2019

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Australian Government
Department of Industry, Innovation and Science

Business Cooperative Research Centres Programme

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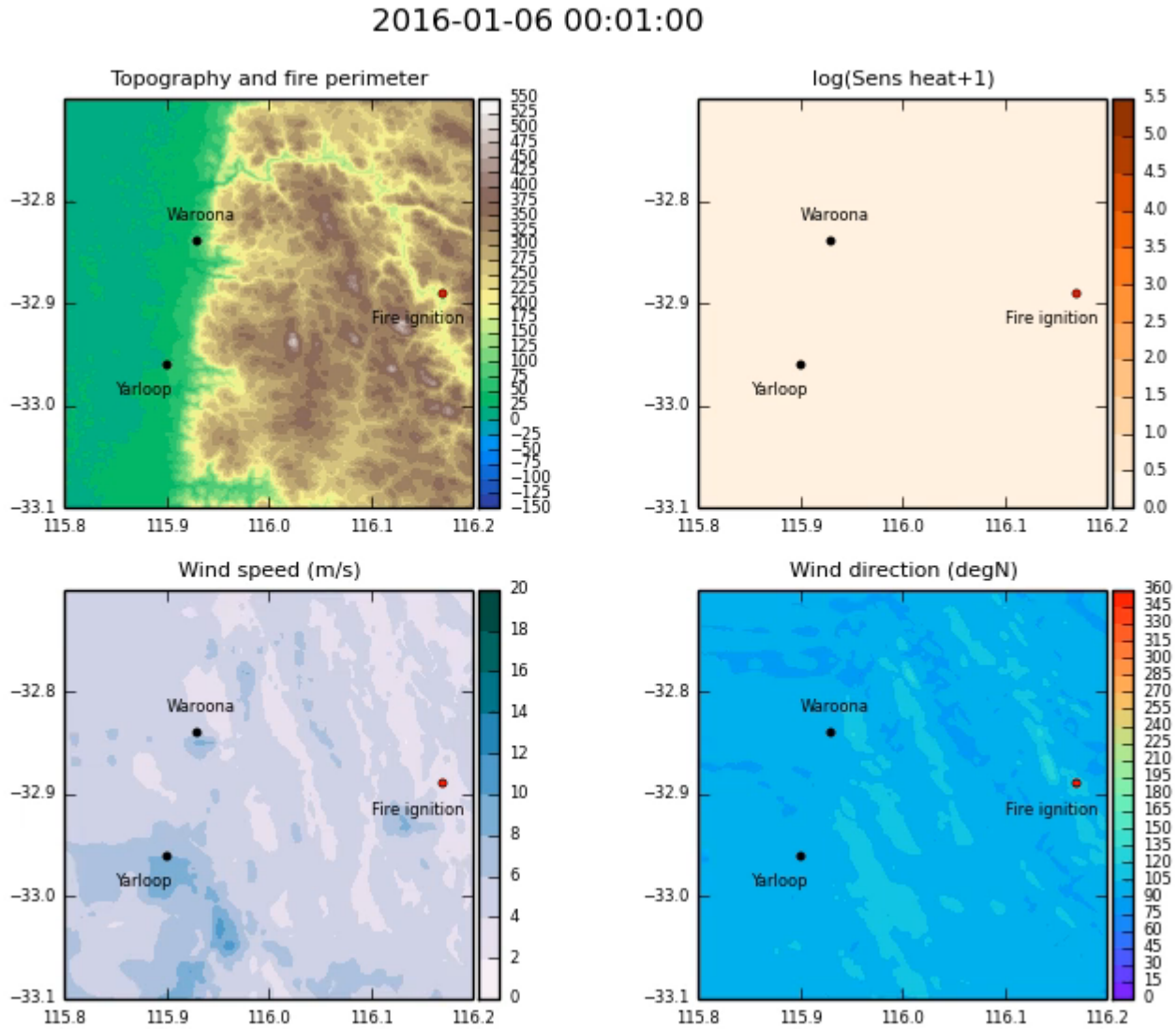
Waroona

Next steps:

- Run simulations from three initial times (reset perimeters)
- Explore the vertical circulation around the time of the two ember storms
- Analysis and narrative



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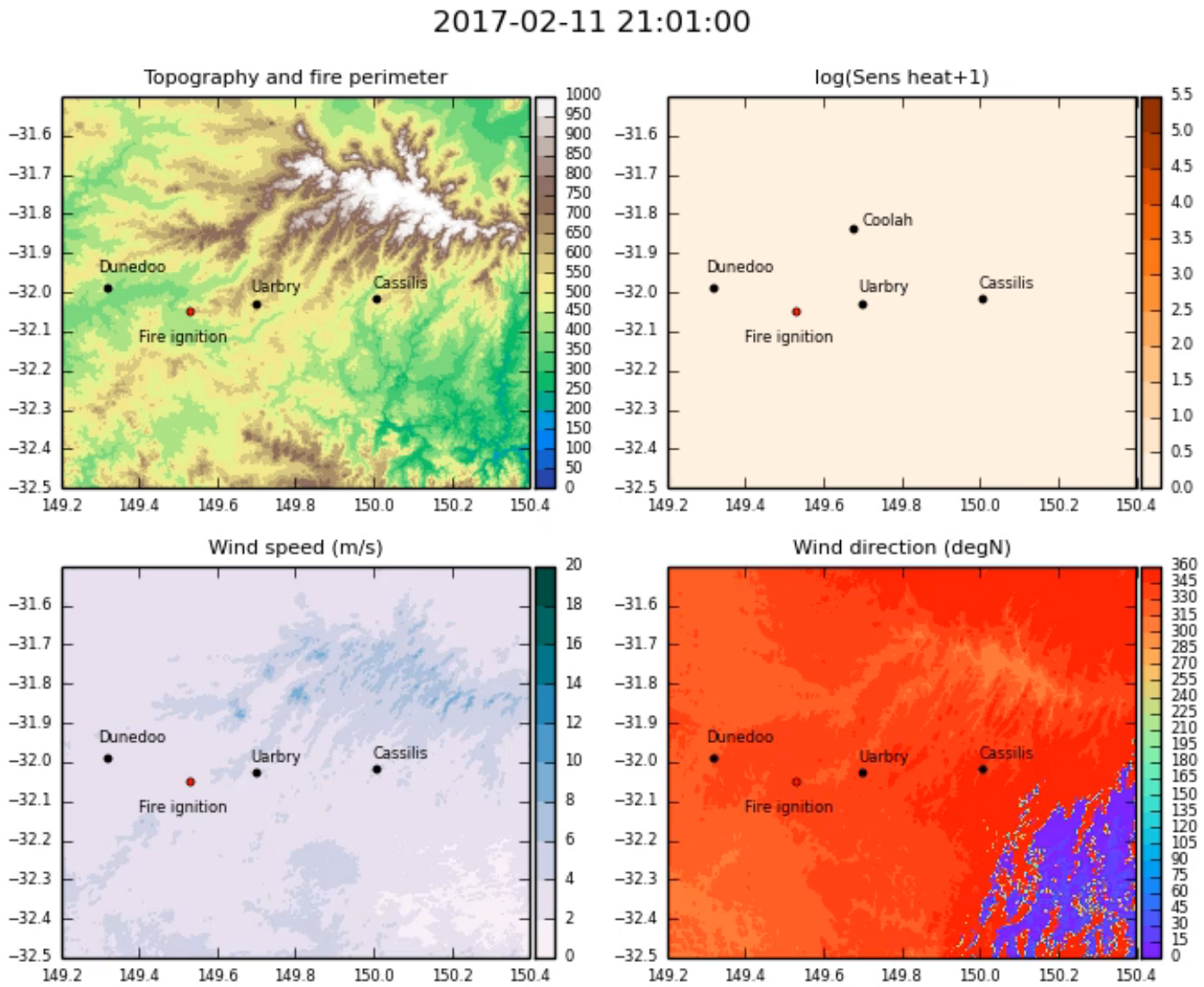
Sir Ivan fire

Initial runs use same fuel as Waroona
Good match for reconstruction (without any modification)

Next steps:

- Include fuels provided by RFS
- Comparison against observations
- Analysis and narrative



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Future model use?

ACCESS and ACCESS-Fire high resolution nests have been developed across several CRC projects

- ACCESS (uncoupled) can be run reliably at 300m resolution
- ACCESS-Fire can be configured for new events

- Configure ACCESS for post-event analysis with a standard set of outputs plotted?
- Run ACCESS-Fire for risk-assessment investigation (e.g. Adelaide gully winds)?

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Manuscript in draft..

- **'Lessons learned from coupled fire-atmosphere research and implications for operational fire modelling'**

- Coauthors: Mika Peace, John Bally (Fire Prediction Services), Jay Charney (US Forest Service)

"Throughout this paper, we preserve the position that empirical uncoupled fire prediction approaches are inadequate under certain circumstances. The issue is identifying the circumstances under which the deficiencies in the current models may manifest as dangerously deficient guidance and what alternative information can be provided so that remedial and mitigation action can be taken."

- In review soon.. comments and input welcome (contact Mika)

- The paper contributes to developing our vision and the business case informing future development of fire prediction models

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Operational support and outreach activities

- Queensland operational support at QDMC during unprecedented fires during November/December 2018.
- Presentations at a range of public forums and national media radio interviews and print articles

- Systematic approach towards researchers supporting operations nationally during major or extreme events
- Opportunities for informing and educating the community on fire science and research findings

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