

## **Supplementary material**

### **Large eddy simulation of atypical wildland fire spread on leeward slopes**

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#### **namelist.input.fcf13**

This is the namelist.input file used in the FCF13 simulation and should be located in the ./WRF/run/ directory. The other atmosphere-fire simulations can be replicated by varying either the fire\_atm\_feedback or fire\_fuel\_cat options.

#### **module\_initialize\_fire.F**

This is the file used to initialise the model for each of the coupled atmosphere-fire simulations and should be located in the ./WRF/dyn\_em/ directory. This file should be used in place of the original when the WRF model is compiled with the em\_fire option. A search of the string "ccs" will show the changes made to the original file.