Grootemaat\_2017\_2\_AusTraits\_QandA

1. (section general) This study also contains data on four traits related to fuel bed properties that are not yet in AusTraits, the rate of spread, the fuel bed density, the fuel bed packing ratio, and the point burning time. (Note to AusTraits data processors) [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#BEIOFTLH)

That’s great. I know more fuel bed experiments have been done in the past. In the FLARE lab at VU (Amsterdam) - we could contact Hans Cornelissen?  
But also in some labs in southern France, Portugal and the United States, I believe.

The experiment at FLARE should have the same experimental design/set-up, so they could merge nicely with the data presented here.

1. (section general) In your species match spreadsheet you have “Syn\_glo” matched with “Synoum glandulosum” and “Syn\_gla” matched with “Syncarpia glomulifera”. Should these be reversed? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#FLSJYPRS)

Oh nooo!!!! That’s terrible. What datasheet is this exactly? I can’t find it in the files that I am looking at….

1. (section general) Something doesn’t seem right with values for fuel moisture content (FMC ‘%’ in your data, which I’ve aligned to leaf\_water\_content\_per\_dry\_mass, defined as the ratio of the mass of water in a leaf to leaf dry mass) [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#GAEPZNWQ)

The leaves were air-dried before any measurements were taking. So there is no “fresh” fresh weight as such. The way FMC was calculated is:

(air dried weight - oven dried weight)/oven dried weight \* 100 %.

1. (section people) Are all appropriate people listed, with appropriate details? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#TWNFLAON)

Yes

1. (section source) Are the citation details for this study correct? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#IQDQYWRL)

Yes

1. (section dataset) Can you provide more detailed information for any of these variables? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#OENWCWOJ)

Start date and end date > were both in 2013

1. (section dataset) Can you provide missing details for the variable year\_collected\_start? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#MIOFQCAM)

2013

1. (section dataset) Can you provide missing details for the variable year\_collected\_end? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#FGYWIOBD)

2013

1. (section sites) Do site details look complete and accurate? As a minimum we would like latitude, longitude, description. [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#ZPBFXAQB)

Yes, this looks great

1. (section sites) Do the additional site details look complete? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#MFUWKWVW)

Yes, I assume this comes from Ian’s 2001 paper?

1. (section contexts) Do the context details look complete? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#JVMWWPUH)

Dried = air-dried live leaves  
Senesced = air-dried senesced leaves

1. (section traits) Does this study include other trait data we may have missed? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#CDAZTICC)

-Packing ratio (maybe not an official trait as such, because we reconstructed the fuel beds in the lab, but it is related to bulk density, see Fig 2).  
-Maximum temperature (in this specific setting)  
-Point burning time (in this specific setting)

-Can you exclude the ash content per dry mass? It was measured using non-conventional methods. I.e., after the burns I collected the ashes and split it into ash, unburnt material and charcoal. This data has not been published and is probably less relevant.

1. (section traits) Were any of your data sourced from other studies? If so, can you tell us which records and the source (so that we can avoid duplicates, where possible)? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#KQFUNYCL)

As you mentioned before, the trait data on individual leaves came from my 2015 FE publication.

1. (section traits) Can you provide any additional information so that above exclusions no longer apply? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#HVBKIUNI)

Nope, don’t think I can be of any help... It is what it is?

1. (section traits) Do the data for the trait fire\_fuel\_bed\_bulk\_density appear correct? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#KALWBXYU)

Yes

1. (section traits) Do the data for the trait fire\_fuel\_comsumption appear correct? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#WNSSUGPA)

Yes

1. (section traits) Do the data for the trait fire\_rate\_of\_spread appear correct? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#XZNDJBXQ)

Yes

1. (section traits) Do the data for the trait leaf\_ash\_content\_per\_dry\_mass appear correct? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#CVSIKDCH)

See previous comment. Can this be removed from the database and report?

1. (section traits) Do the data for the trait leaf\_curliness appear correct? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#WMBJSMOY)

Yes

1. (section traits) More than 10% of your data points for the trait leaf\_P\_per\_dry\_mass are outliers, does this seem reasonable, given what you know about the biology of these species and overall distribution of values in Austraits? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#DVRBPNLN)

Please note that we have two different leaf types here. Air dried and senesced. In case they are grouped together, it makes sense that we have some lower values here (from the senesced leaves)

1. (section traits) More than 10% of your data points for the trait leaf\_water\_content\_per\_dry\_mass are outliers, does this seem reasonable, given what you know about the biology of these species and overall distribution of values in Austraits? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#XLOCGSBR)

The leaves were air-dried before any measurements were taking. So there is no “fresh” fresh weight as such. The way FMC was calculated is:

(air dried weight - oven dried weight)/oven dried weight \* 100 %.

1. (section taxonomic\_updates) Do these taxonomic alignments and corrections look reasonable? [link](file:///C:\Users\saskia\Downloads\Grootemaat_2017_2%20(1).html#IWSJKROM)

Yes