

# **A post-wildfire response in cave dripwater chemistry**

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## **SUPPLEMENTARY MATERIAL**

27 Supplementary Figure 1) The entrance to Yonderup cave, showing distinct fracturing which  
28 has occurred post-fire and indicative of a high intensity fire (photograph taken March 2015).

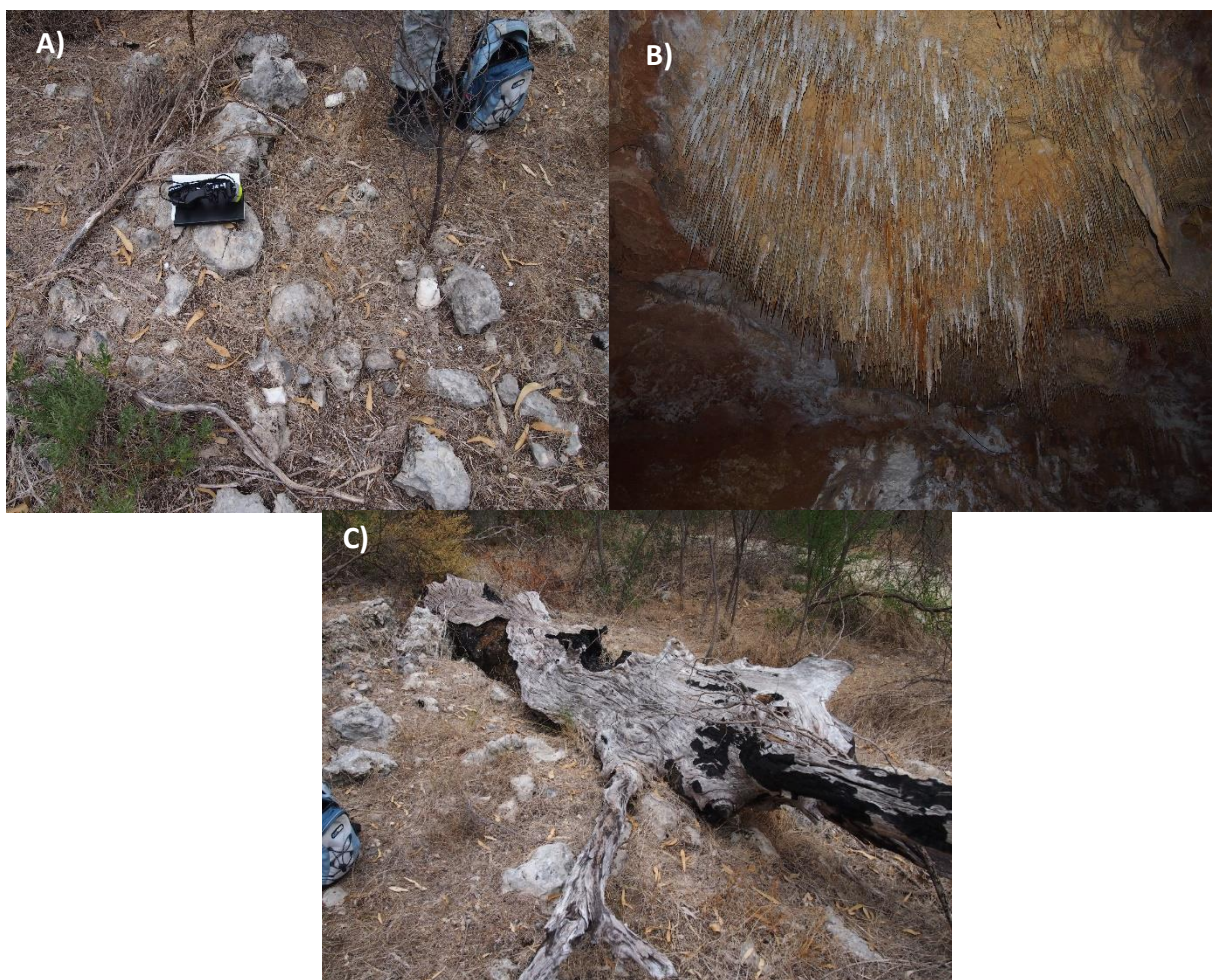
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Supplementary Figure 2) Images of Site 1a a) soil cover above the site, showing exposed bedrock b) ‘wheat field’ of stalactites on the roof c) dead tuart tree above site 1a with exposed bedrock cover. The photograph was taken March 2015. Due to the close proximity of the tree above the site, infiltration water chemistry may have been affected by the wood ash created as this tree was burnt during the fire.



41     Supplementary Figure 3) Site 2a and its ‘Cathedral’ like structure with large stalactites  
42     hanging from the roof.

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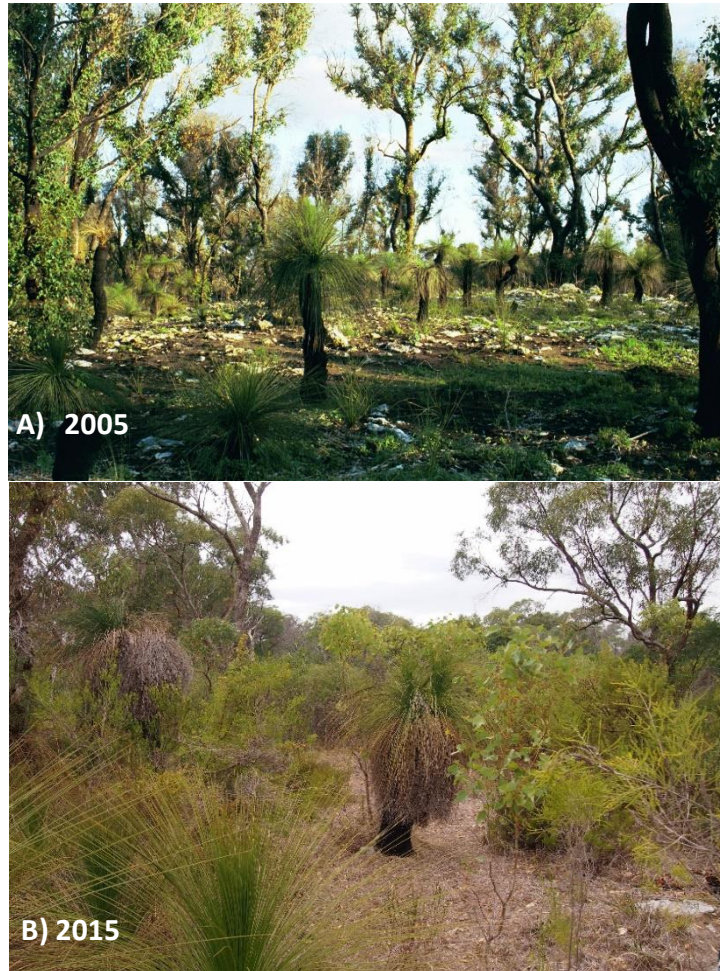




Supplementary Figure 4) Photos of regrowth 7 months after wildfire at Yanchep.



Supplementary Figure 5) Regrowth post-wildfire in Yanchep National Park from (A) August 2005 to (B) March 2015.



87     **Refer to excel file for following captions: DR\_Geo\_Tables**

88     Table DR1) Shows anion and cations data in mg/L and mmol/L for Site 1a (DR1A) and Site  
89     2a (DR1B).

90     Table DR2) Show isotopic data using IRMS method (A) and CRDS method (B) at both Site  
91     1a and Site 2a.

92     Discharge Calculations of Site 1a and Site 2a.

93     Table DR3) Show soil depth from centre point above each site, every meter for five meters in  
94     directions North, South, East and West.

95     Water balance calculations: These include P - AET calculations and cumulative water  
96     balance (CWB).