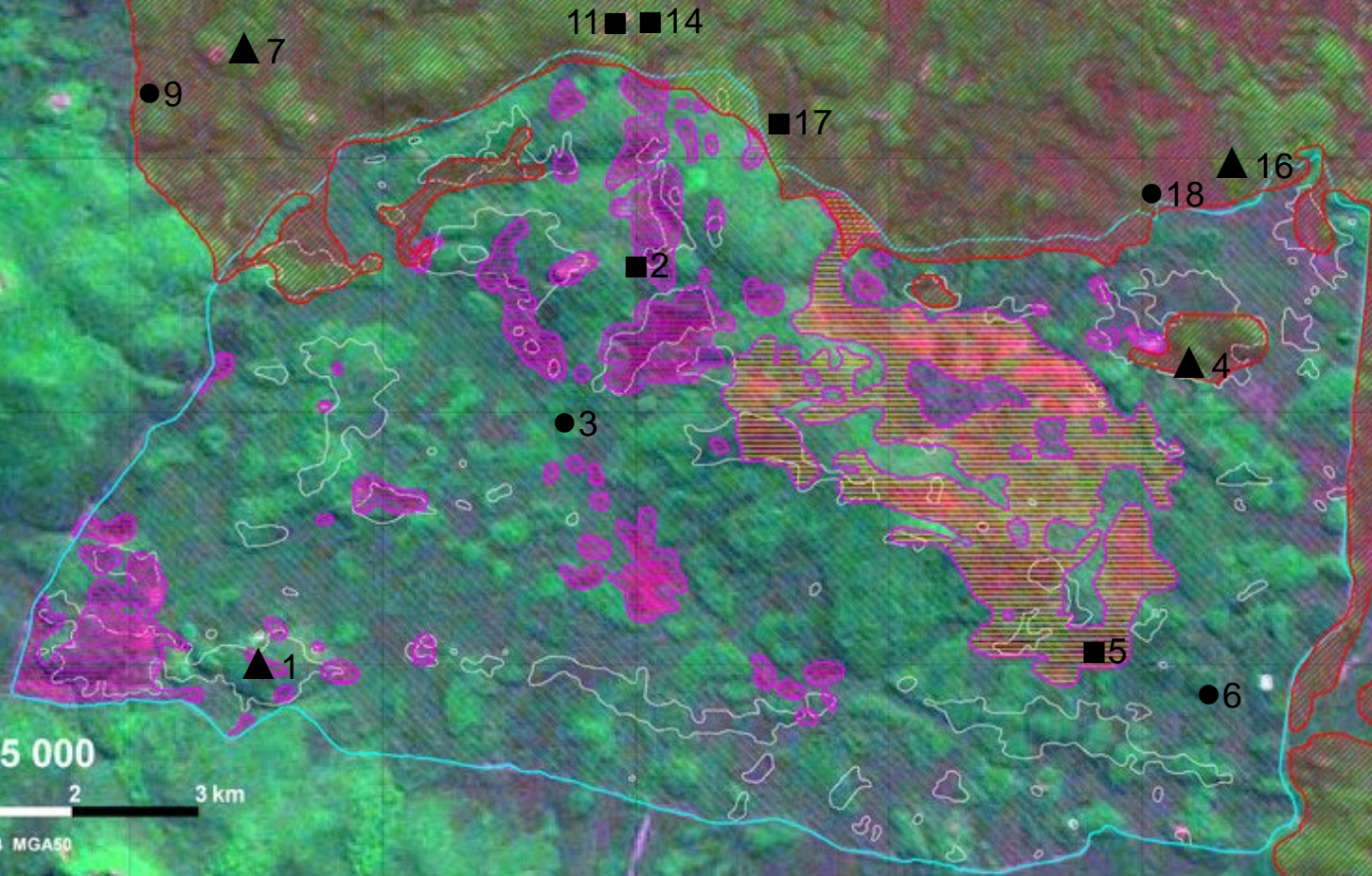


# LONDON BLOCK PRESCRIBED BURN: JAN - MARCH 2006

DRAFT



1:25 000

0 1 2 3 km

GDA94 MGA50

-  Burn 2006-03
-  Fire 2003-09
-  Burn 2002-12

Landsat TM captured on 6 June 2006  
Mapped by LI Shu  
Fire Management Services  
DEC 28 July 2006

# WALPOLE FIRE MOSAIC





# Why Monitor Fungi?

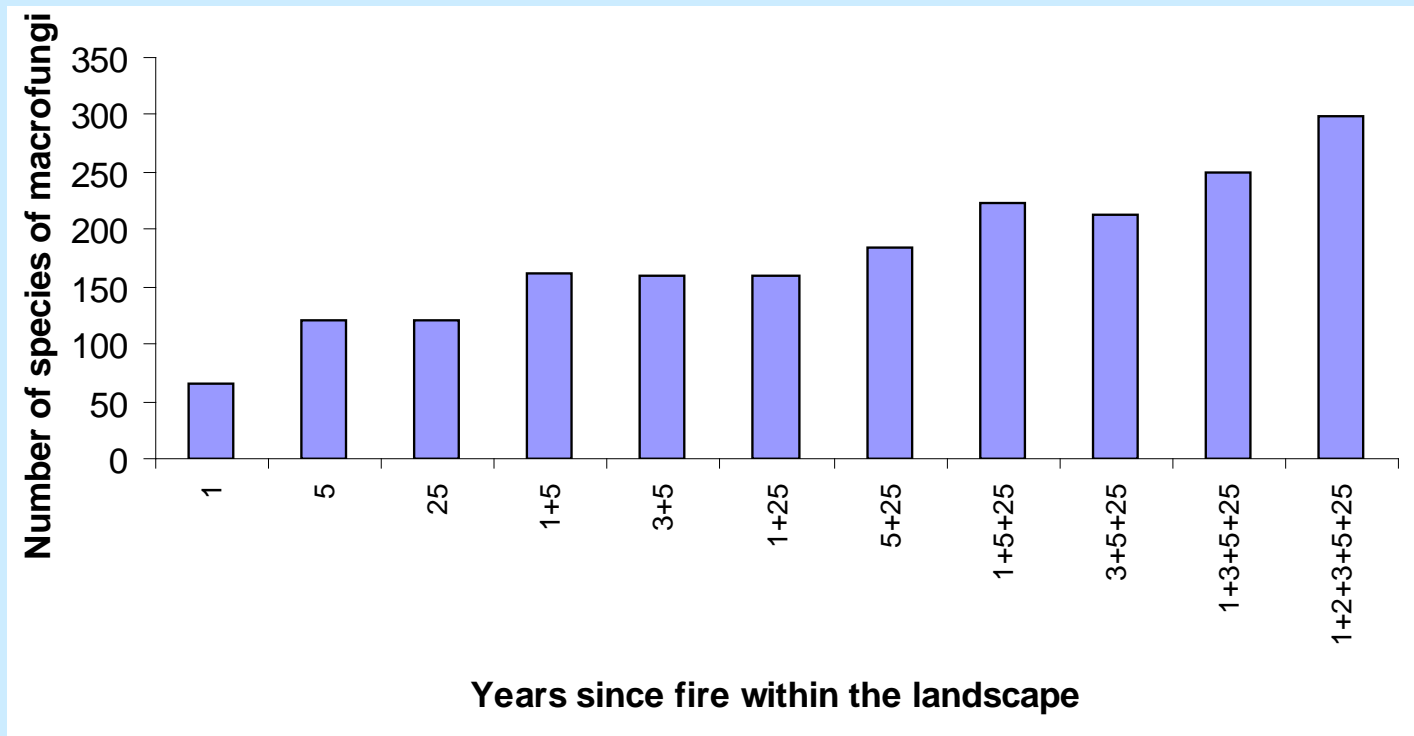
Very important in terms of both biodiversity and function:

- Thousands of species
- Soil litter and wood inhabiting species play major roles in decomposition and nutrient cycling
- Mycorrhizal species enhance nutrient uptake of plants
- Hypogeous truffle-like fungi provide an important food resource for native mammals
  - especially following fire

Knowledge of fungal diversity and the ecological roles that fungi play are therefore important considerations when Land Managers make decisions regarding Nature Conservation

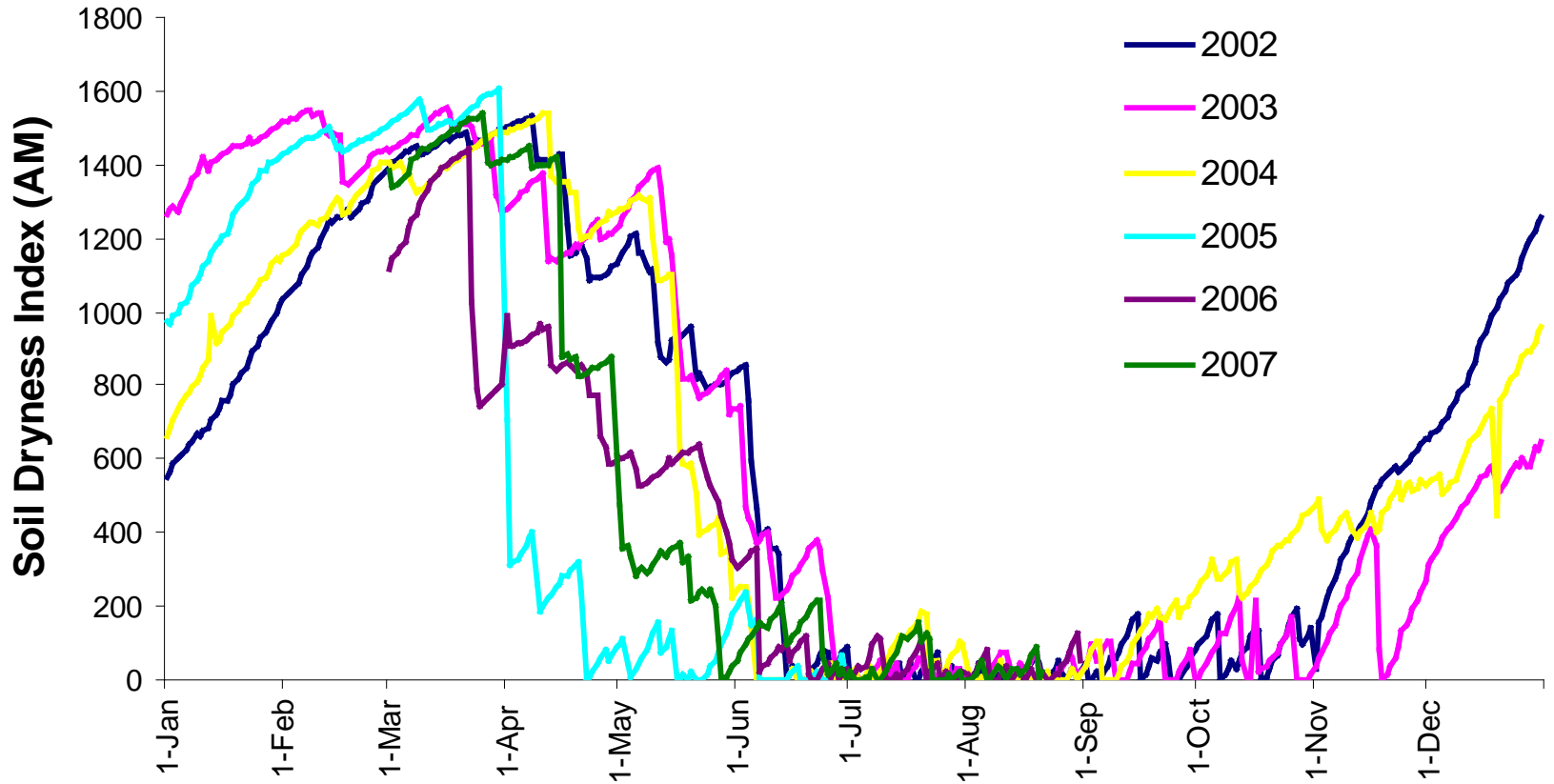
# Fungi and Fire

A large number of fungi are stimulated by fire to produce fruit bodies or are only associated with recently burnt sites

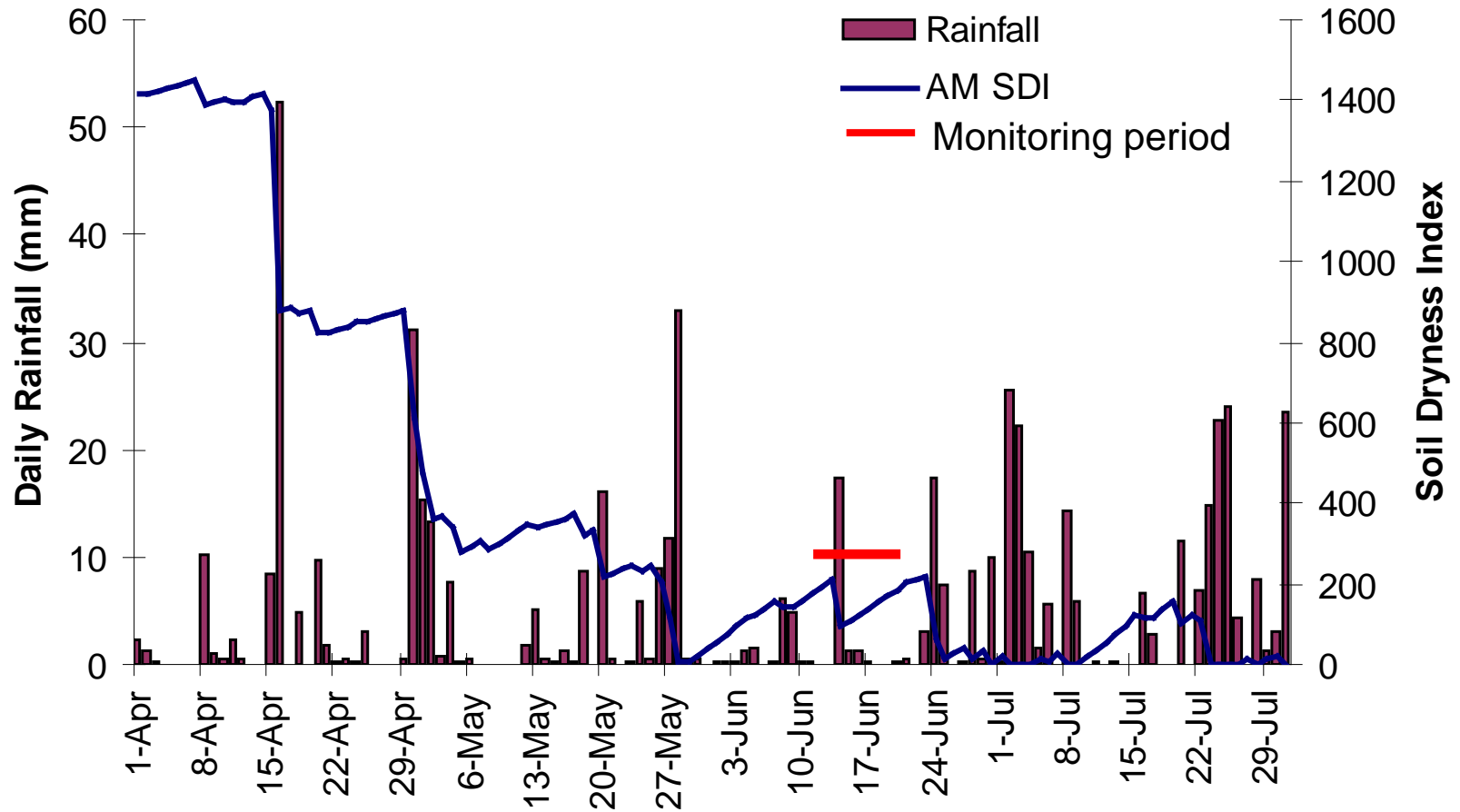


Fire can be used to enhance fungal diversity across a landscape

# The challenge of when to survey?



# The challenge of when to survey?



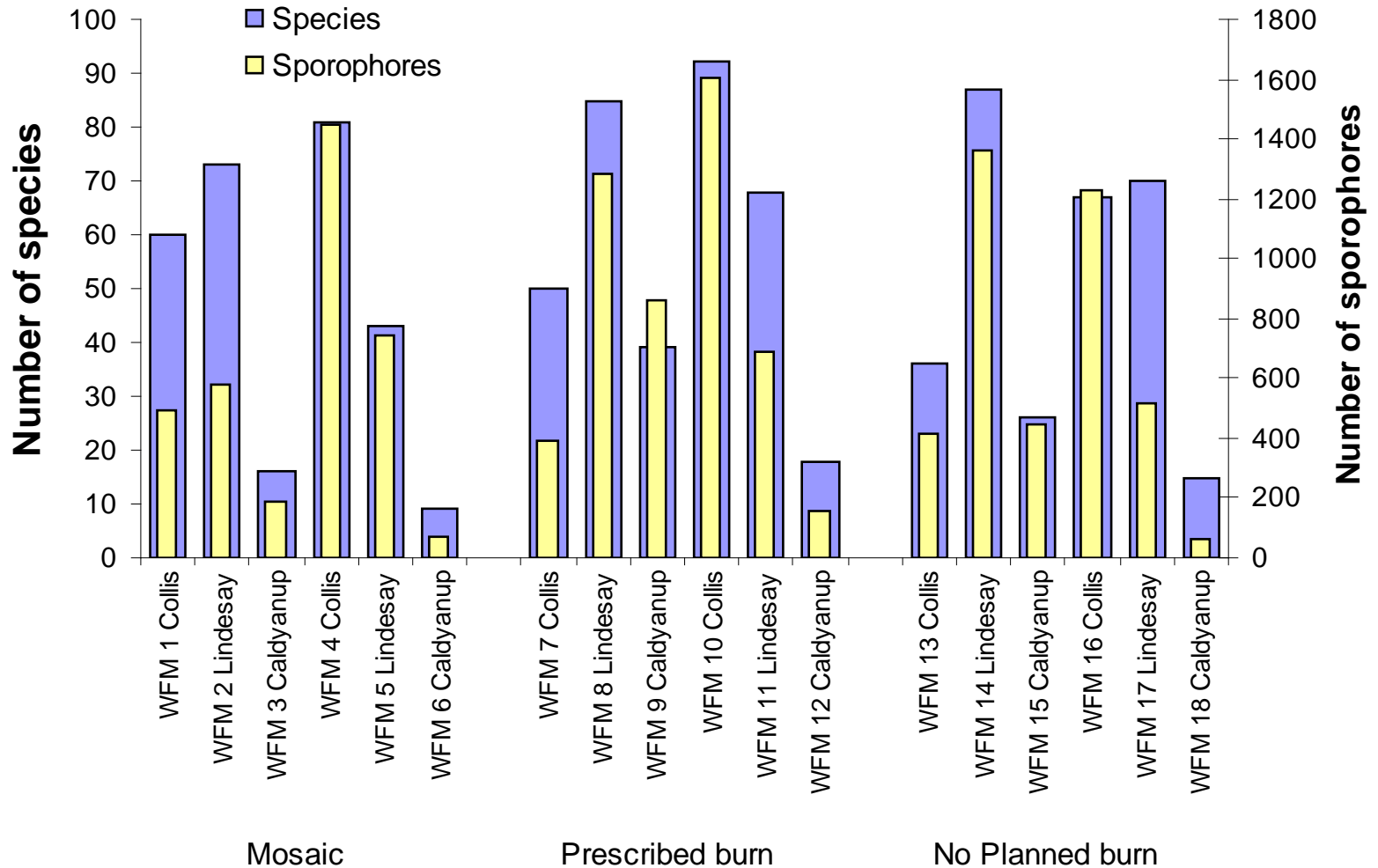
# Survey results 2007

- 282 species recorded
  - 12,547 sporophores
  - 19 new species records for jarrah forest
    - Indicates we are getting a reasonably comprehensive spp. list for the area
- Total of 677 spp. recorded in FORESTCHECK, WFM and Bushfire CRC projects
  - In 2007, 41% of total spp recorded – which is excellent considering the ephemeral nature of fungi



# Survey results 2007

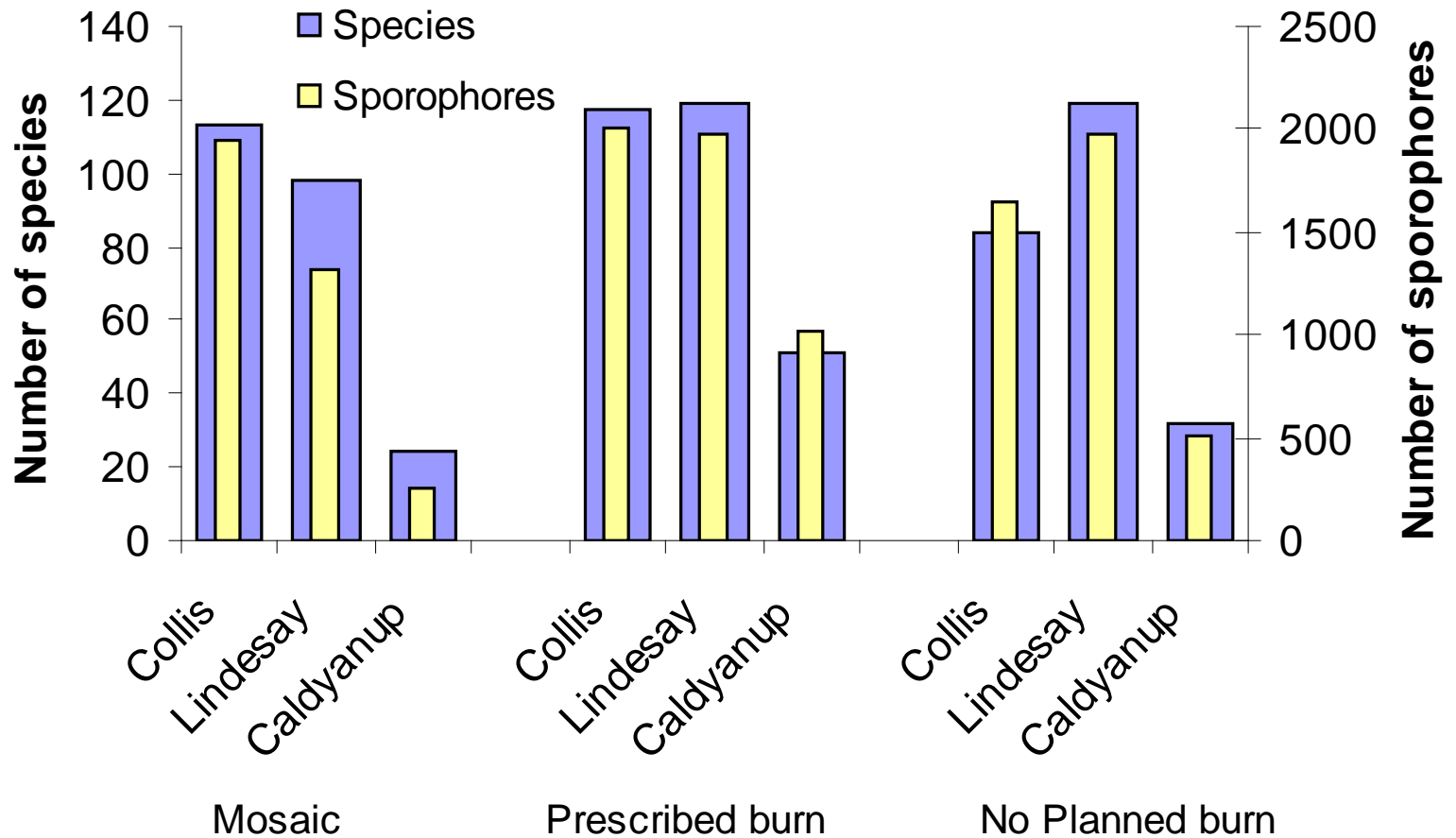
- species richness and abundance recorded in each grid in each treatment





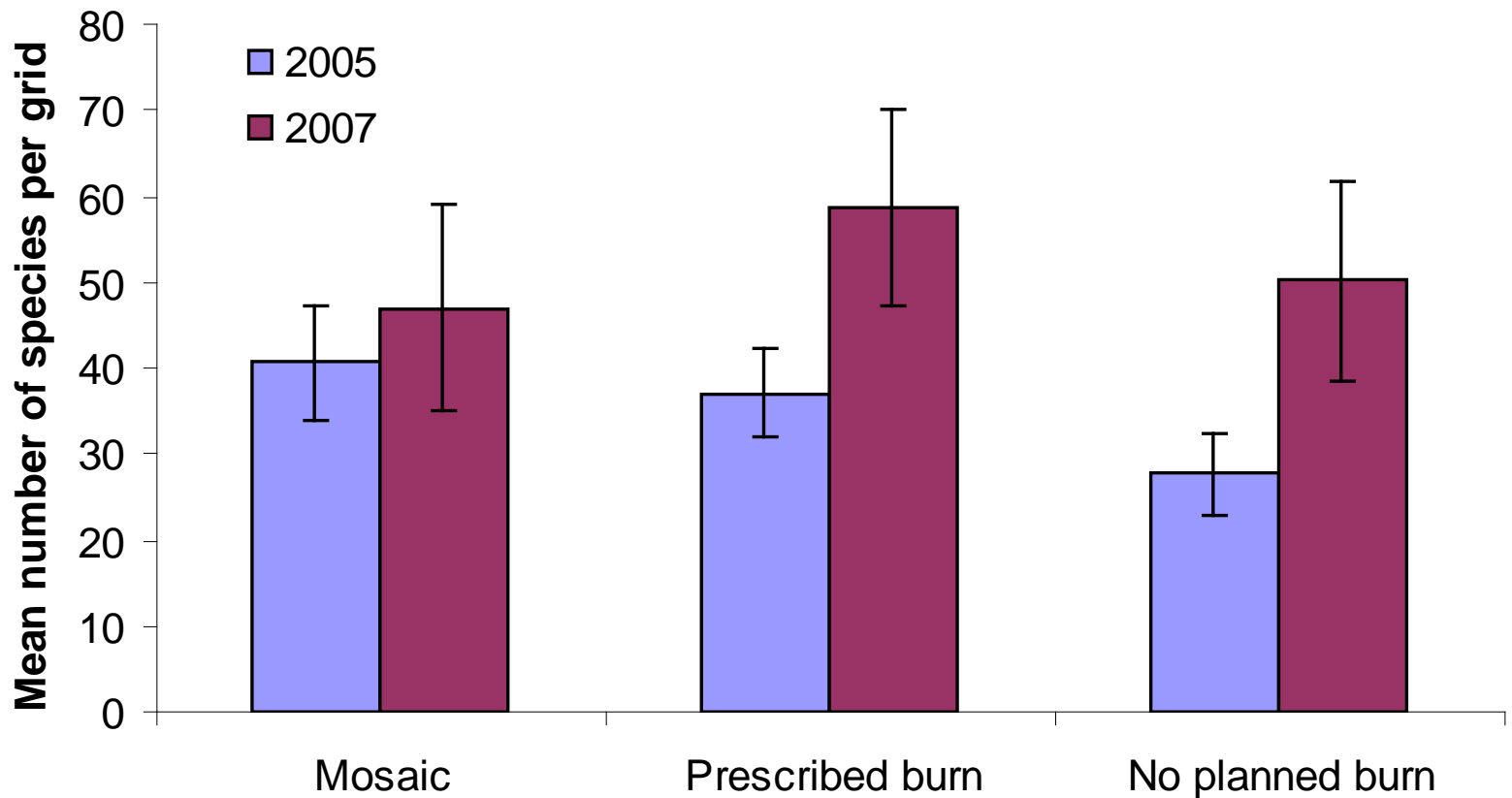
# Survey results 2007

- total species richness and abundance recorded in each vegetation type in each treatment



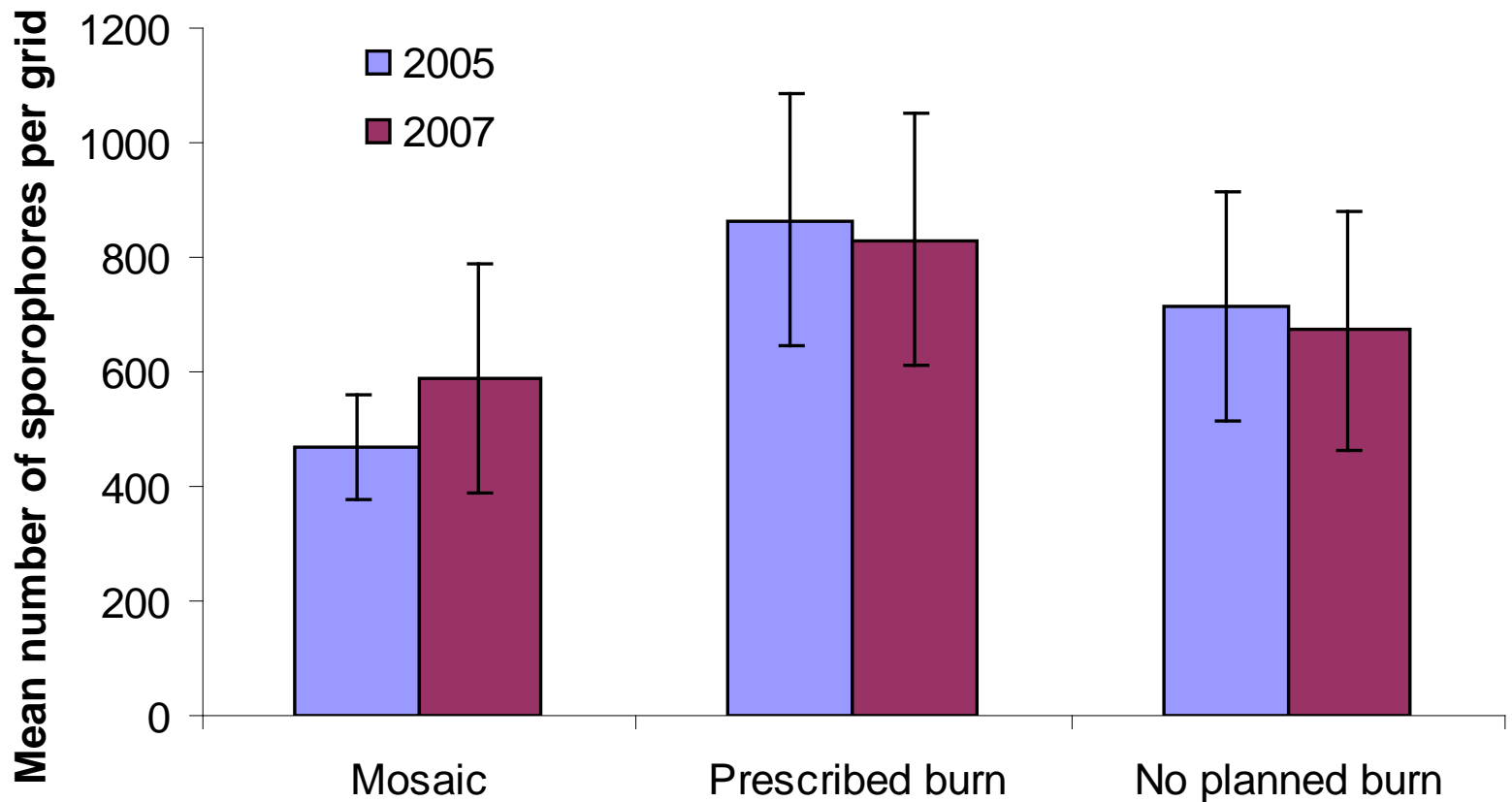
# Survey results 2005-07

- mean species richness recorded in each treatment in 2005 and 2007



# Survey results 2005-07

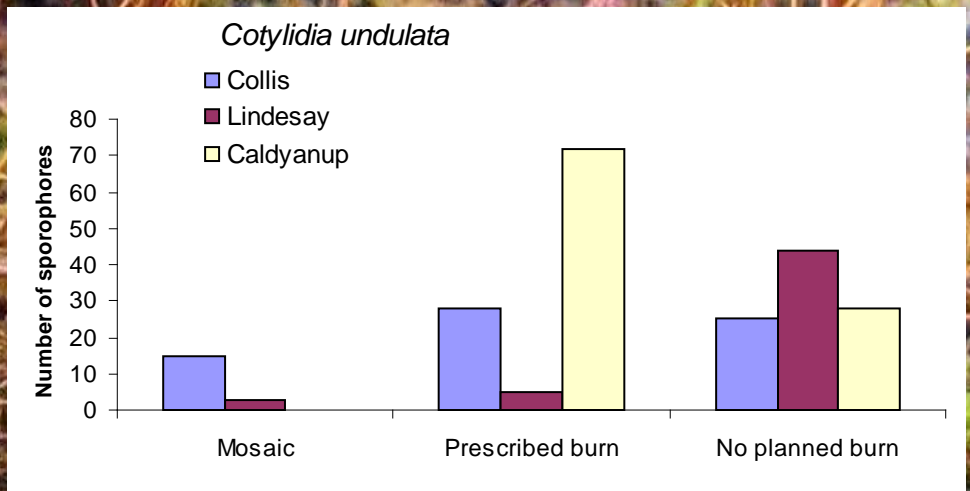
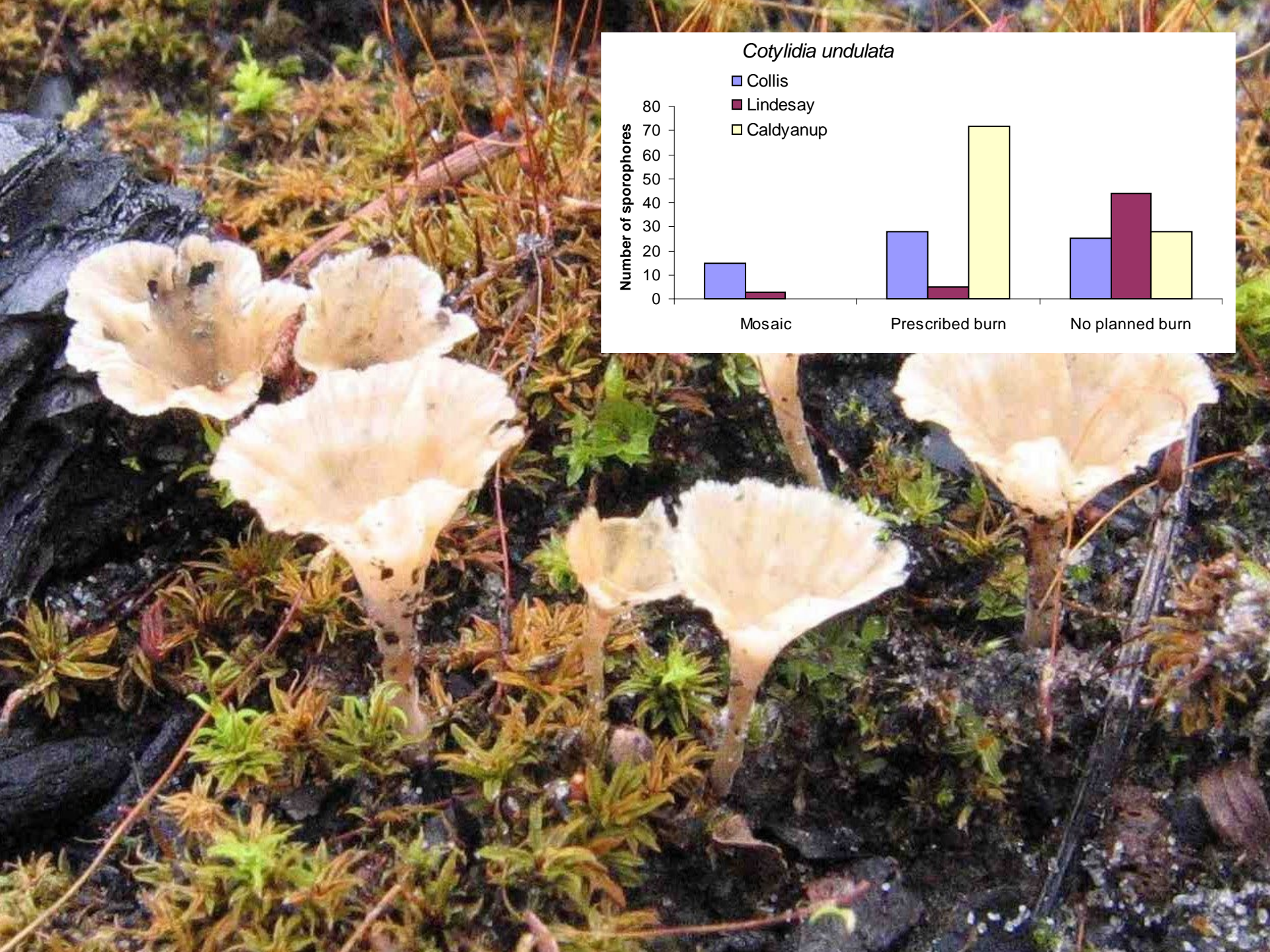
- mean species abundance recorded in each treatment in 2005 and 2007

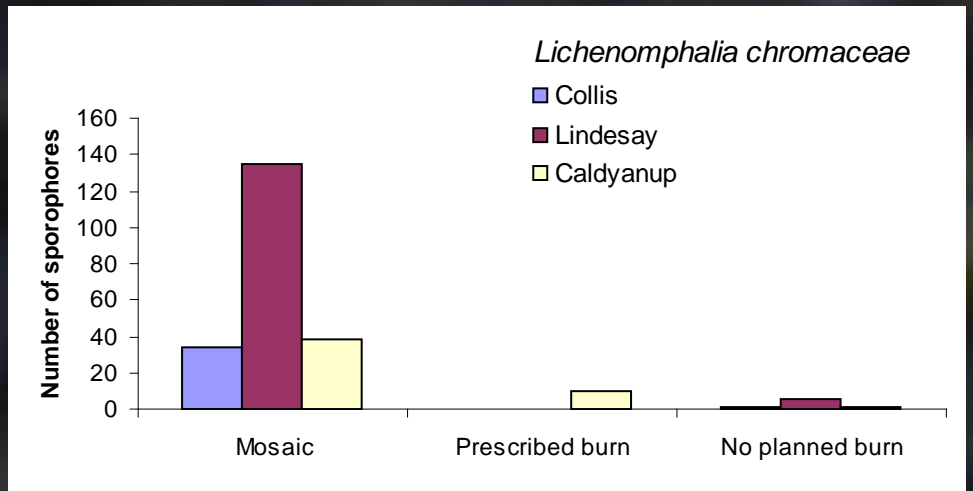
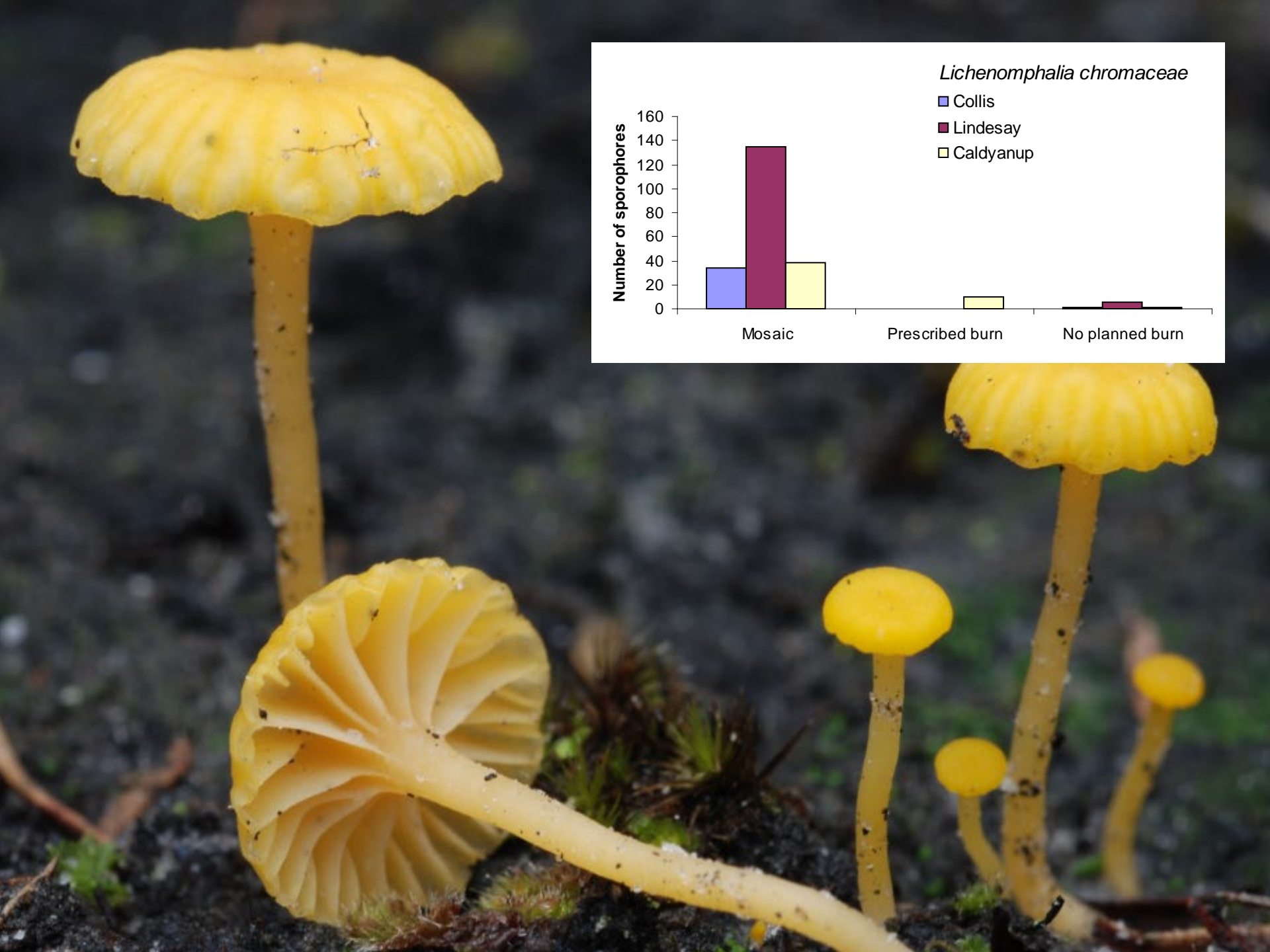


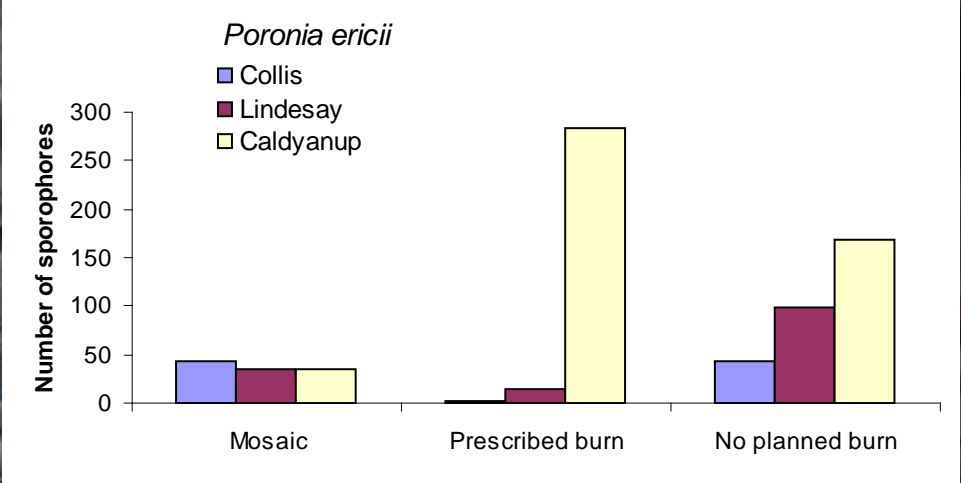
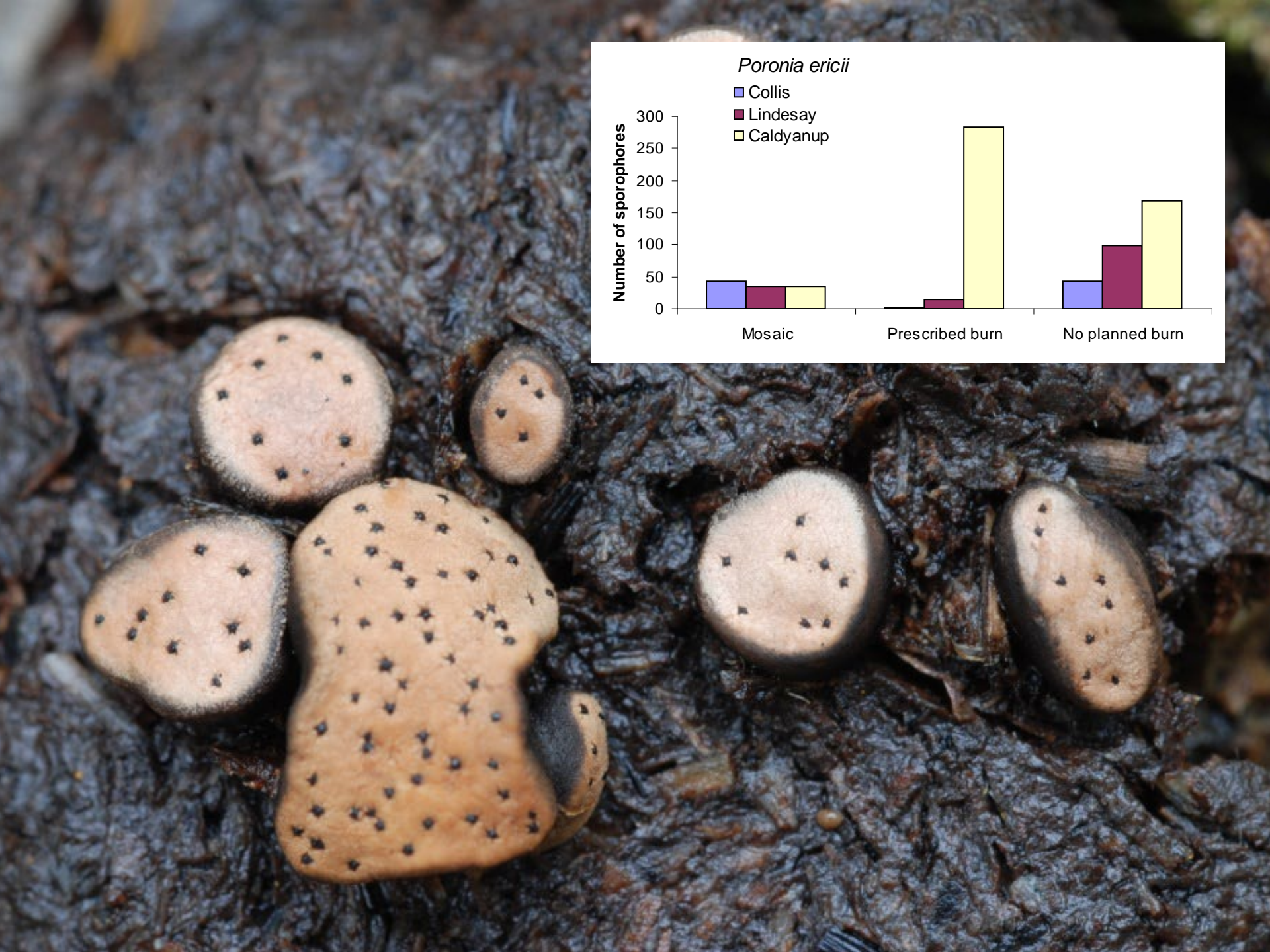
# Conclusions

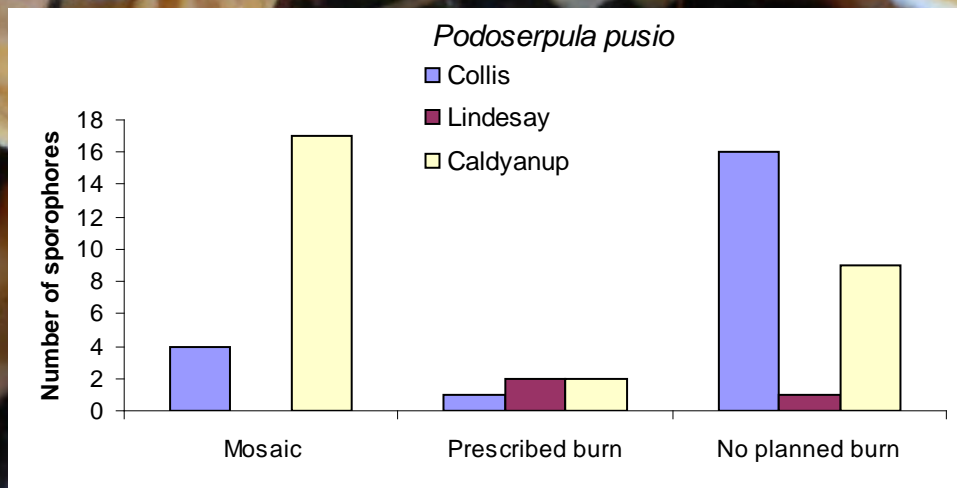
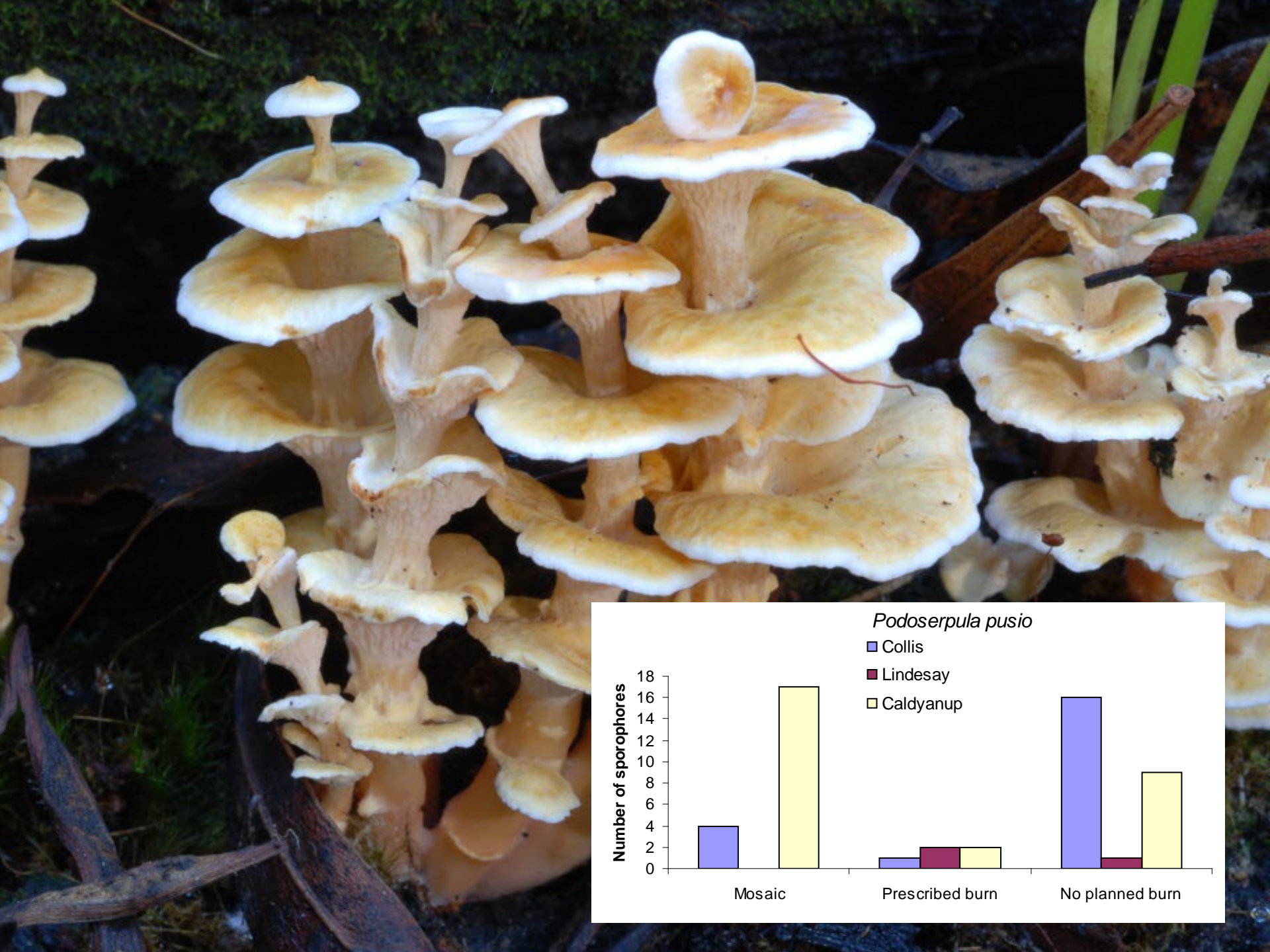
- Collis and Lindesay have similar total species richness
- Caldyanup has low number of species
- Burning regime does not appear to have affected mean species richness and abundance as yet
  - but - need to examine species composition
- Total species richness and abundance varies between grids in the same vegetation complex



























# Invertebrates – they're only substrates!





Many thanks to:  
Verna Tunsell  
Grant Phelan  
Roy Wittkuhn

