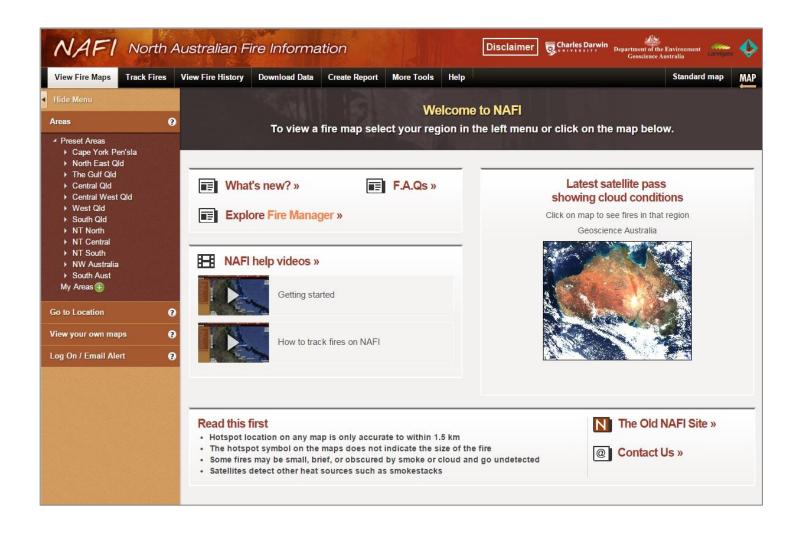
# The NAFI Service

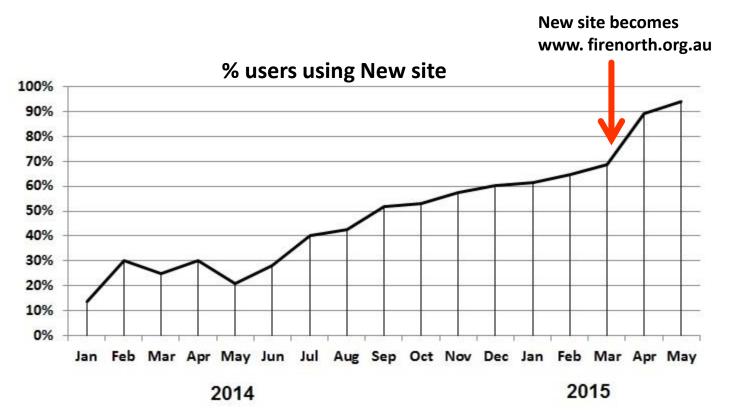
North Australian Fire Managers Forum June, 2015

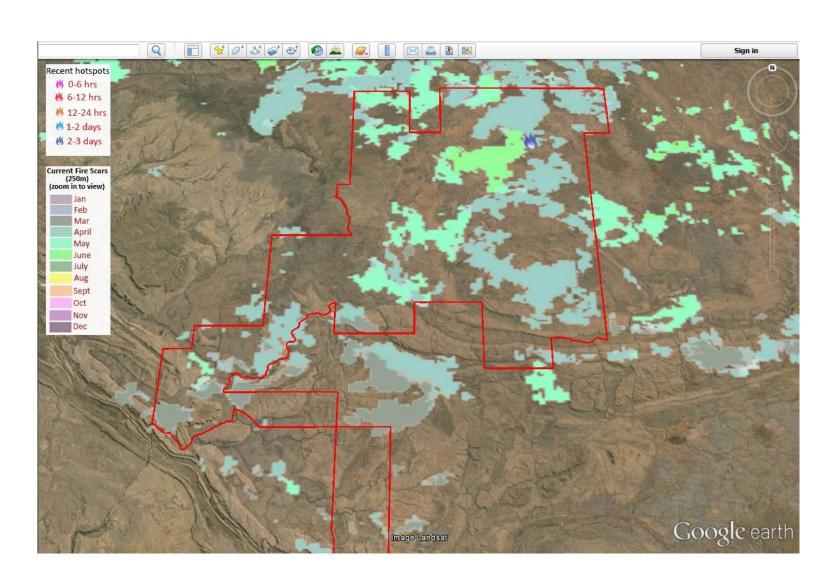
Peter Jacklyn
Darwin Centre for Bushfires Research
Charles Darwin University

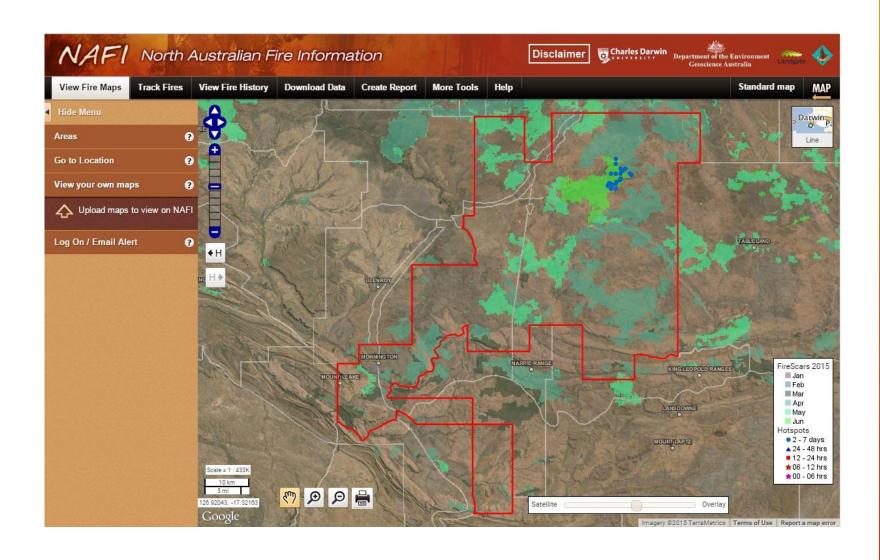
### NAFI now on new website

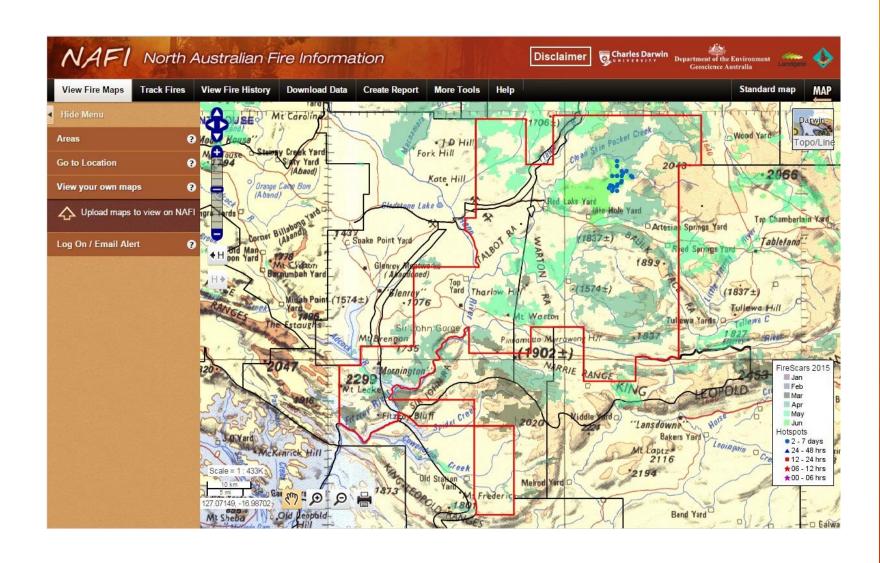


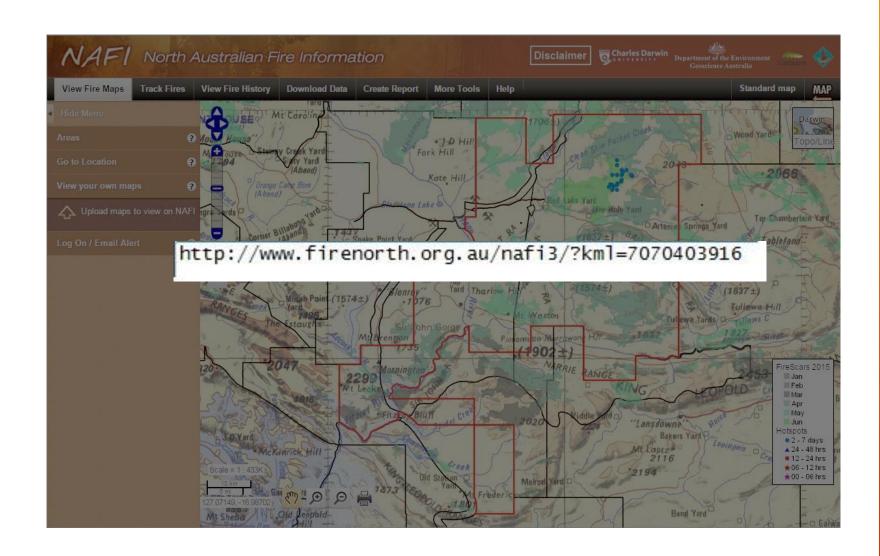
### Almost all users using the new site



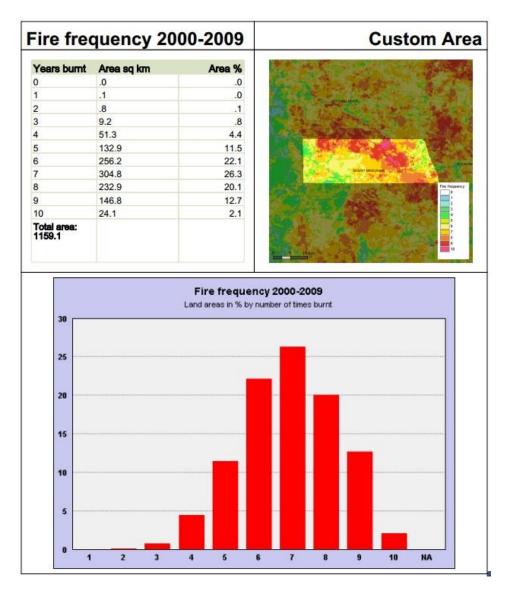




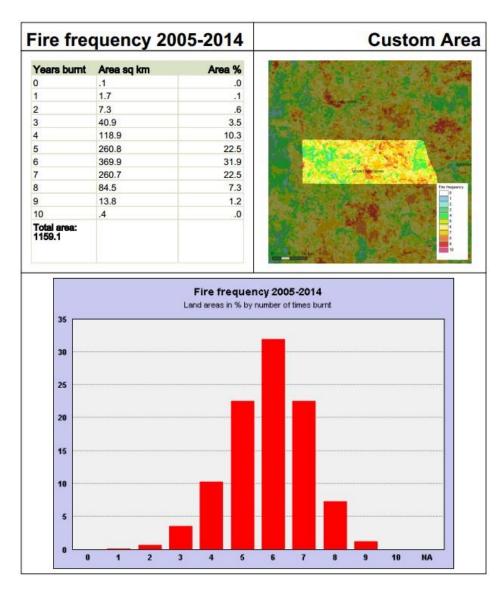


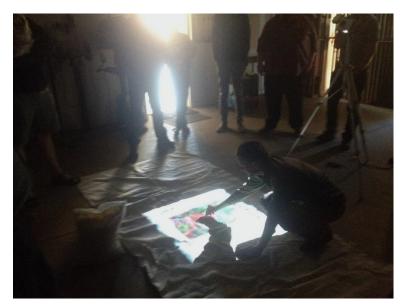


### More reports available

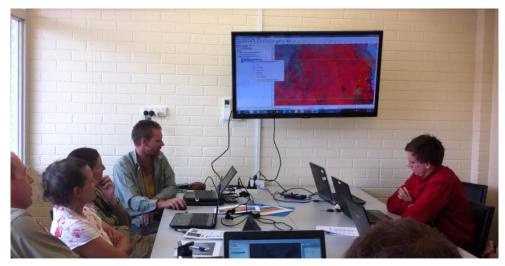


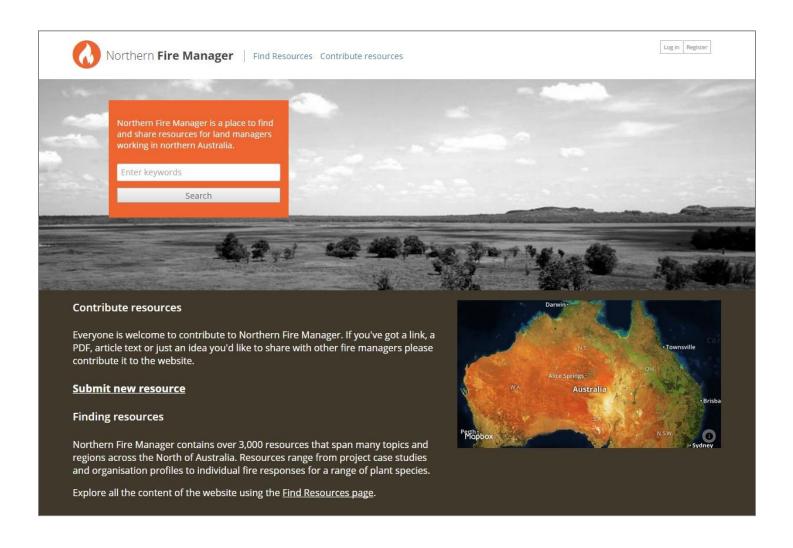
### More reports available

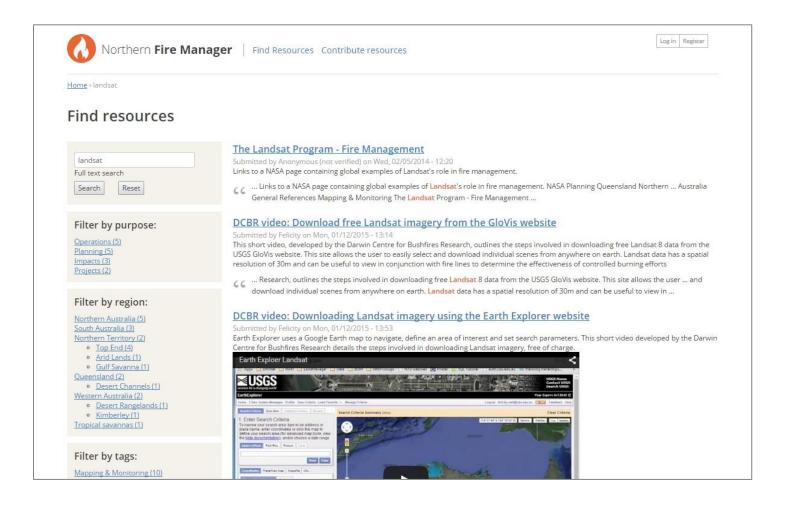












### **Building resilience**

Fire Patterns / Regimes (4)

Impacts native plants & animals (4)

Landsat (4)

Fire Management (3)

General References (3) Impacts / Responses (3)

Journal Article (3)

fire history (2)

Measurement / Monitoring / Reporting (2)

Projects / Programs (2)

SAGA GIS (2) Technical References (2)

Attitudes / Knowledge / Communication

(1)

Australia (1)

Biology / Ecology (1)

Cape York Peninsula (1)

controlled burning (1)

Darwin Coastal (1)

fire frequency (1)

fire intensity (1)

GIS (1)

Grazing & Fire (1)

imagery (1)

Kakadu National Park (1)

Kimberley (1)

Litchfield National Park (1)

Nitmiluk (Katherine Gorge) National Park

Overviews (1)

Photos (1)

prescribed burning (1)

Research (1)

Simpson Strzelecki Dunefields (1)

Tools & Resources (1)

Tropical Savannas (1)

Values & Classification (1)

vegetation (1) Victoria River District (1)



... Bushfires Research details the steps involved in downloading Landsat imagery, free of charge. Darwin Centre for Bushfires ... Australia Mapping & Monitoring satellite imagery Landsat DCBR video: Downloading Landsat imagery using the Earth Explorer ...

#### DCBR video: Displaying Landsat imagery in SAGA GIS

Submitted by Felicity on Mon, 01/12/2015 - 15:14

This Darwin Centre for Bushfires Research video runs through the process of importing, projecting and displaying Landsat data using the free, portable software SAGA GIS. Visualising Landsat imagery in conjunction with GPS lines from controlled burning work can help provide a clearer picture of the success of this burning work and the need, if any, for follow-up work to create more effective breaks.

... through the process of importing, projecting and displaying Landsat data using the free, portable software SAGA GIS. Visualising Landsat imagery in conjunction with GPS lines from controlled burning work can ...

#### A comparison of NOAA-AVHRR fire data with three Landsat data sets in arid and semi-arid Australia

Submitted by Anonymous (not verified) on Thu, 06/26/2014 - 11:00

This paper compares fire data sourced through NOAA-AVHRR and Landsat. It considers extent of area burnt, data coverage and mapping accuracy. (Turner et al., 2009)

... This paper compares fire data sourced through NOAA-AVHRR and Landsat. It considers extent of area burnt, data coverage and mapping accuracy. ... Australia A comparison of NOAA-AVHRR fire data with three Landsat data sets in arid and semi-arid Australia ...

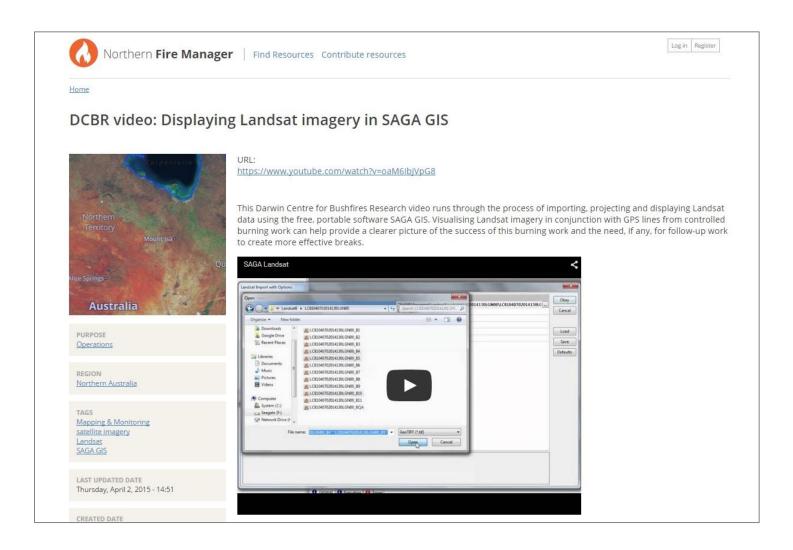
#### Patterns of landscape fire and predicted vegetation response in the North Kimberley region of Western Australia

Submitted by Anonymous (not verified) on Wed, 02/05/2014 - 12:20

The paper reports on the development of a decadal fire history, 1990-1999, in the North Kimberley region. The fire history confirms that substantial areas of the North Kimberley are burnt each year. The authors conclude that there is a need to undertake a thorough appraisal of the status of regional biota in this remote, ostensibly ecologically intact region. (Fisher et al., 2003)

... native plants & animals Journal Article Kimberley Landsat Technical References Patterns of landscape fire and predicted ...

Frequency and season of fires varies with distance from settlement and grass composition in





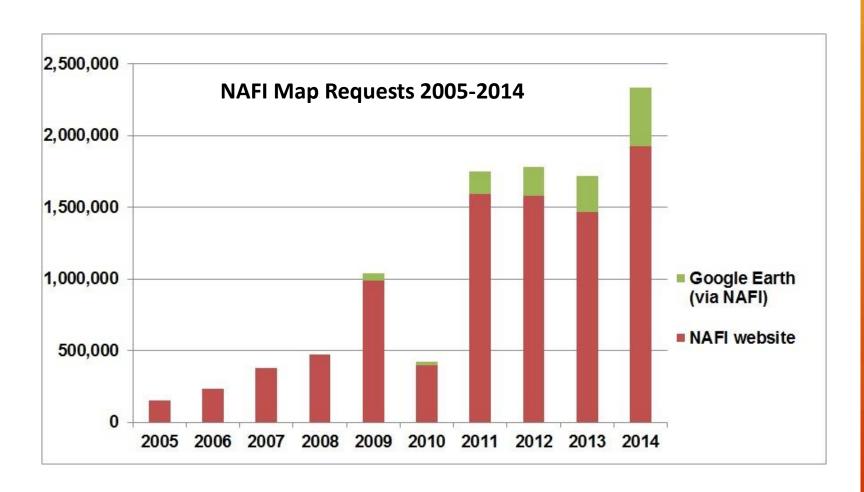
## **Future Data and Tools**

**New Maps – fire severity, fuels, patchiness** 

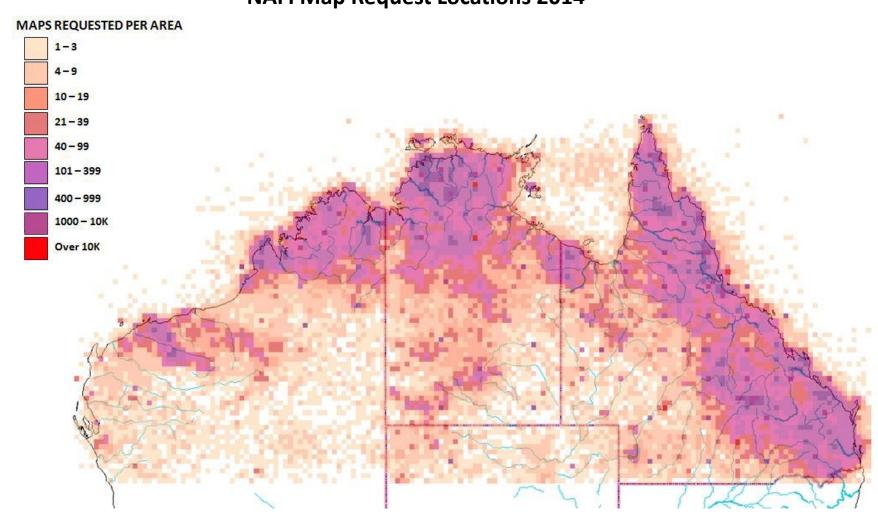
New tools based on user demand

Downloadable apps for mobile devices

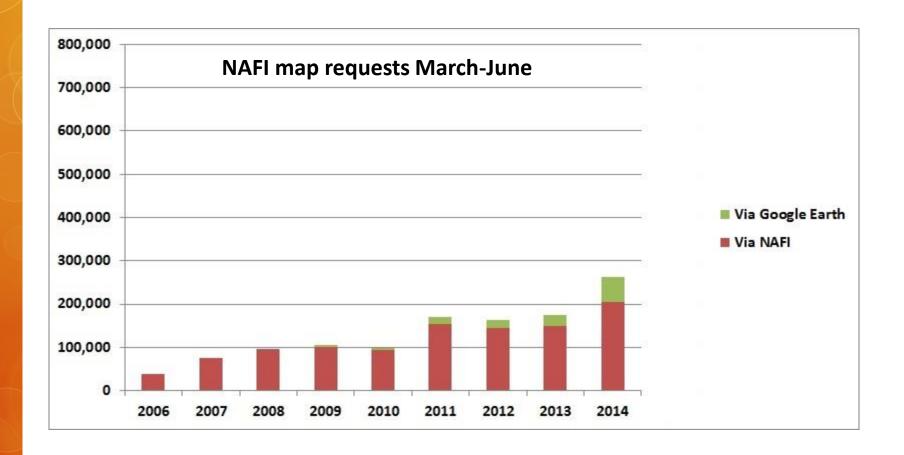
### Map requests rising



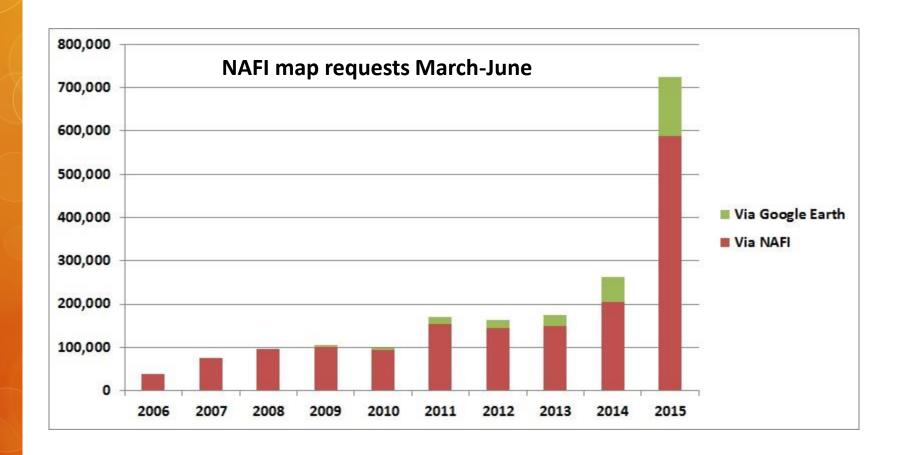
## **NAFI Map Request Locations 2014**



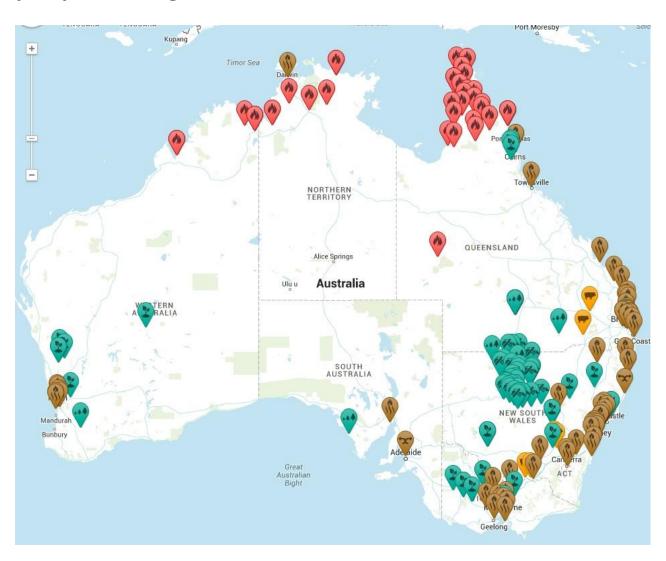
### **Early Dry Season map requests**



## **Early Dry Season map requests**

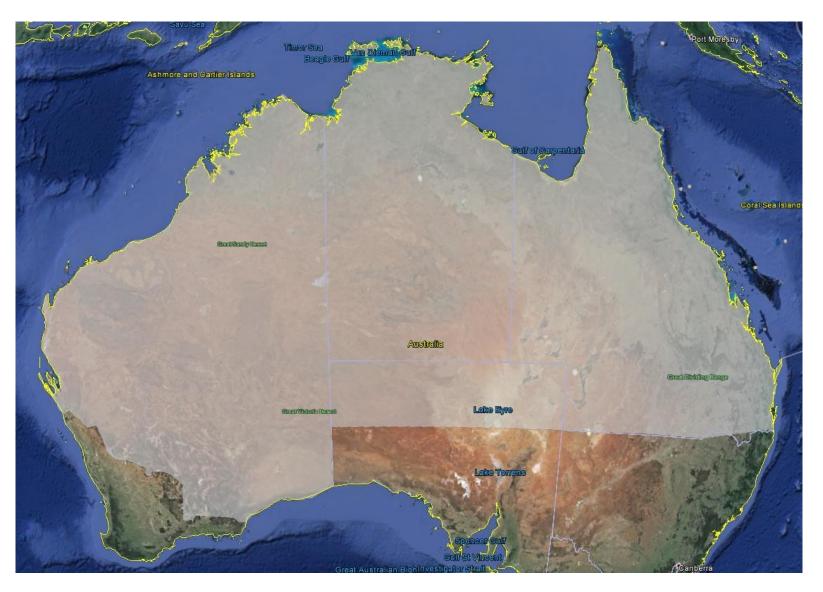


## Map requests rising



# **Future Developments**

**WA Rangelands fire scar mapping** 



# **Future Developments**

**WA Rangelands fire scar mapping** 

**QFES** project

**Broader Regional NRM funding**