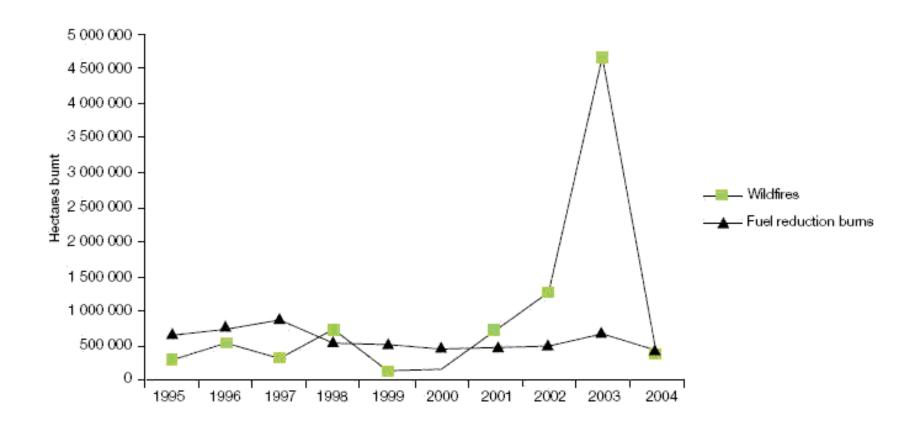


Wildfires in Australia

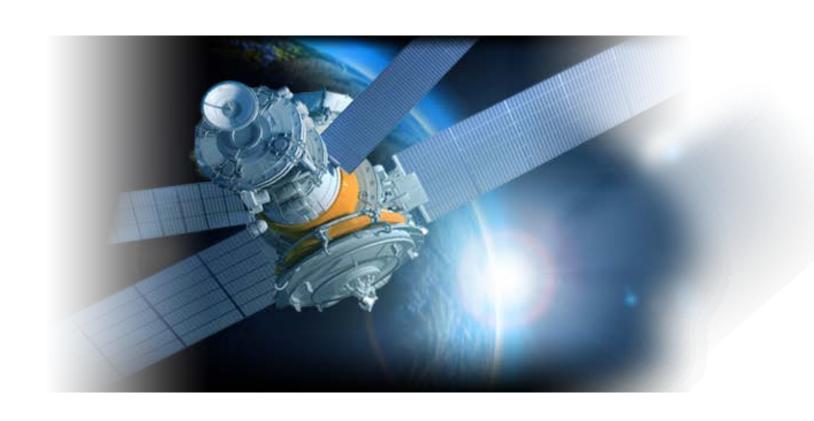


Source: Australia State of the Environment 2006 Report

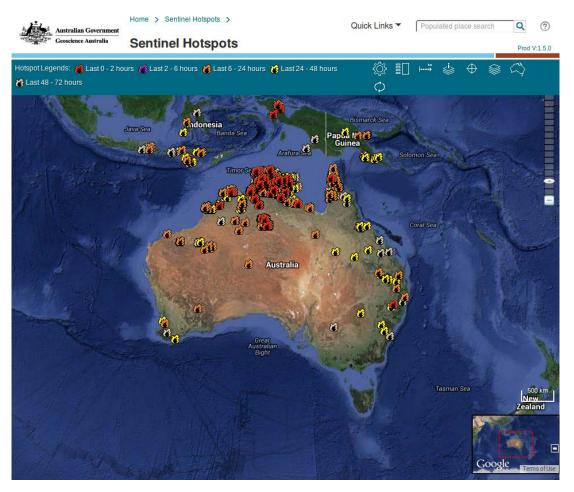
Factors for Fire Spread

- Fuel Load (Vegetation Data)
- Fuel Moisture (Precipitation)
- Wind Speed
- Wind Direction
- Ambient Temperature
- Relative Humidity
- Slope Ange (Topography)

The Data



Sentinel Hotspot Data

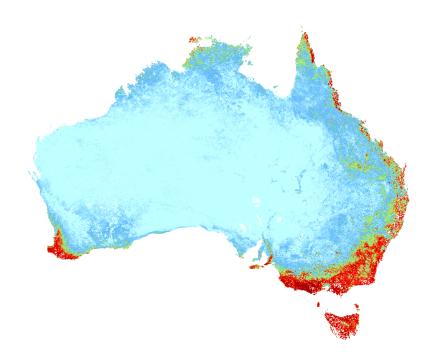


Source: http://sciencehackau.github.io/melbourne/2015/06/02/sen tinel-hotspot.html

Data Collection

- point data
- derived from satellite-born instruments
- detect light in the thermal wavelengths. Typically, the satellite data are processed with a specific algorithm that highlights areas with an unusually high temperature.

Auscover Photosynthetic Vegetation Data



Data Collection

- Grid data
- derived from field-based, airborne and satellite-born instruments
- Fraction of Photosynthetically Active Radiation (FPAR)

Geospatial Data Web Services

- Web Map Service (WMS)
- Web Feature Service (WFS)



The Hack

- combines Sentinel Hotspot data with Vegetation data
- provides a live visualisation tool
- quickly identifies areas of critical potential for devastating bushfires

http://wildfire.zammit.org/

