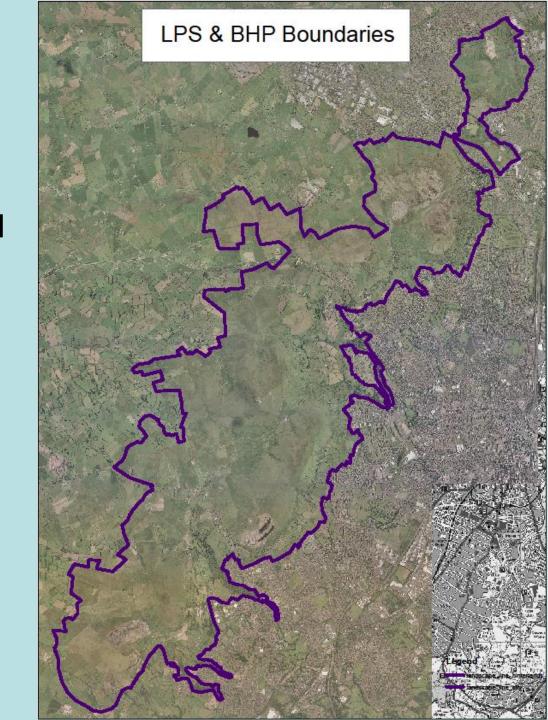
Mapping Wildfires in the Belfast Hills



- 5600 hectares
- 3 Council areas
- Mostly privately owned
- Carnmoney Hill
- Cave Hill Country Park
- Divis
- Colin Glen
- Slievenacloy ASSI

































And they're at it again today. Please keep an eye out for anyone acting suspiciously in the hills. There's obviously ones targeting this area and setting fires like on Saturday.



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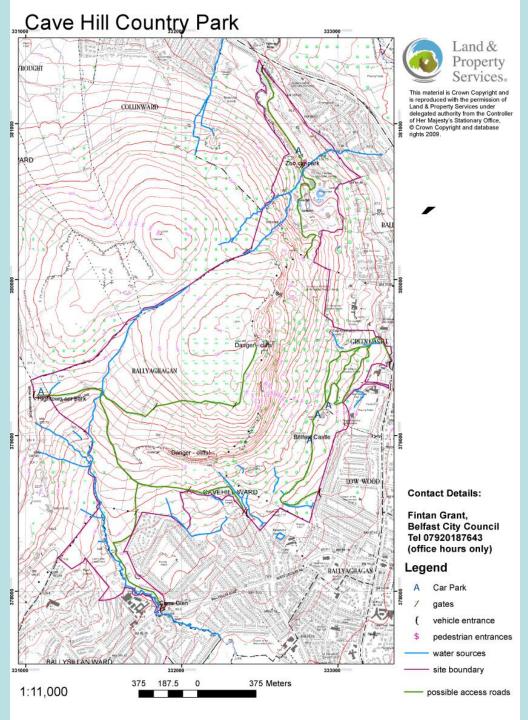












Contact Details:

Fintan Grant, Belfast City Council Tel 07920187643 (office hours only)

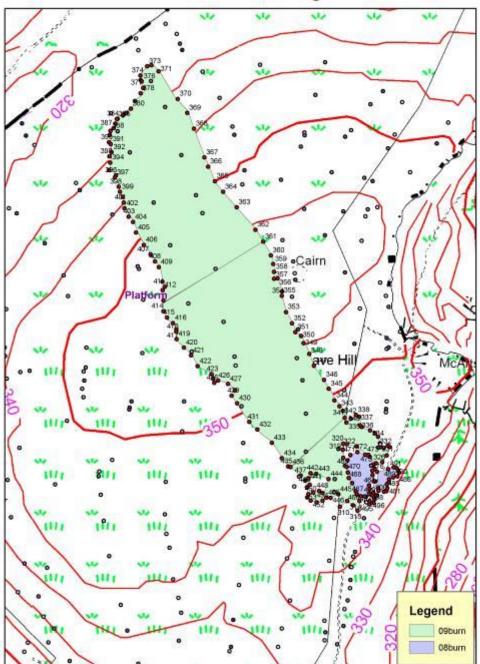
Legend

- A Car Park
- / gates
- vehicle entrance
- \$ pedestrian entrances
- water sources
- site boundary
- possible access roads





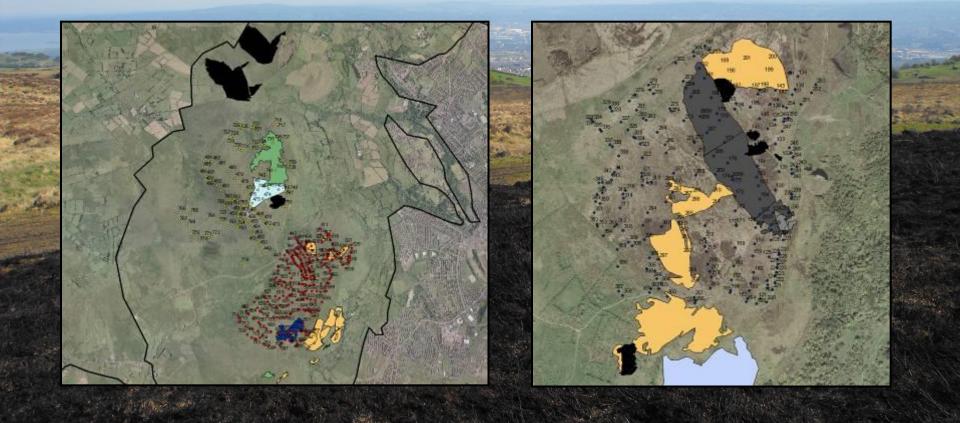
cave hill fire damage







- Three study sites: Cave Hill, Divis and Black Mountain.
- A total of 600 sampled plots were surveyed in 2008 and 484 plots in 2011.
- At each point a number of standard measurements were taken within a 2 m².



Variable	Description
Coverage	Estimated percentage cover (%) of Calluna vulgaris per 2 m²
Height	Maximum height (cm) of Calluna vulgaris within 2 m²
Condition	Calluna vulgaris was categorised as pionner, building, building- mature, mature, degenerate (dead) or absent.
Sphagnum	Estimated percentage cover (%) of Sphagnum spp. per 2 m ²
Bilberry	Presence (0/1) of Vaccinium myrtillus within 2 m ²
Bell heather	Presence (0/1) of <i>Erica cinerea</i> within 2 m²
Cross-leaved heather	Presence (0/1) of <i>Erica tetralix</i> within 2 m ²
Devil's-bit scabious	Presence (0/1) of Succisa pratensis within 2 m ²
Grass coverage	Estimated percentage cover (%) of grass per 2 m ²
Grass height	Maximum height (cm) of grass within 2 m ²
Exposed peat	Estimated percentage cover (%) of bare peat per 2 m ²
Peat depth	Maximum depth (cm) of peat at each sample point in 2008
Burning	Presence (0/1) of recent fire
Burning before or after 2008 Survey	Fire is presence before 2008 Survey (1) or later (2)

Table 1 Variables measured at each sample point (2m²) to assess the condition of upland heath during 2011. Moreover, In Cave Hill and Divis the cover and maximum height was measured on another scale (100 m²).

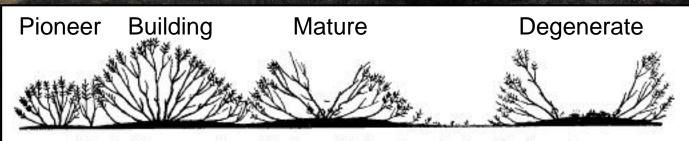
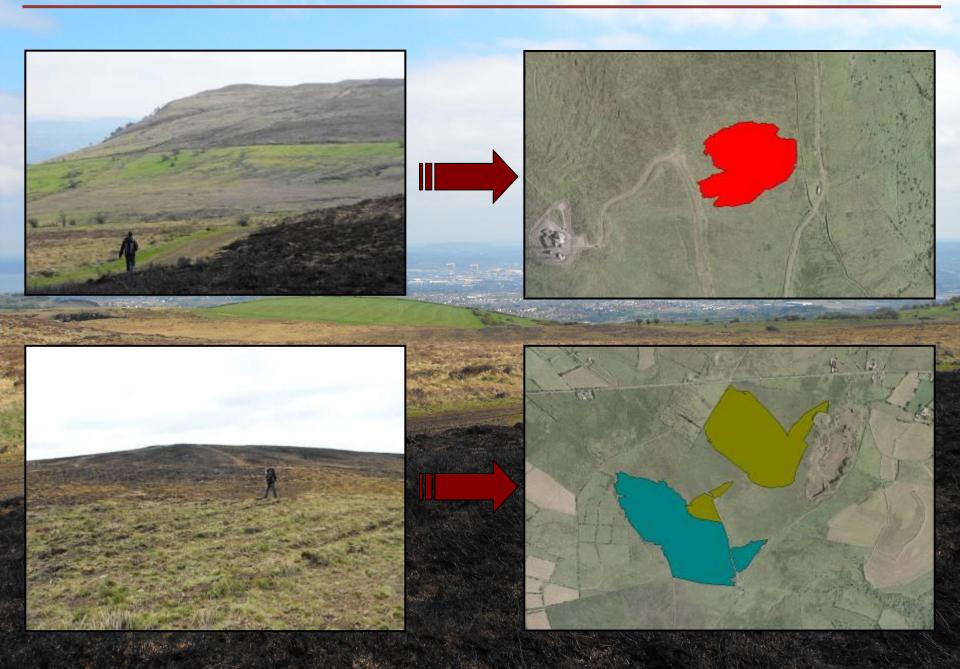
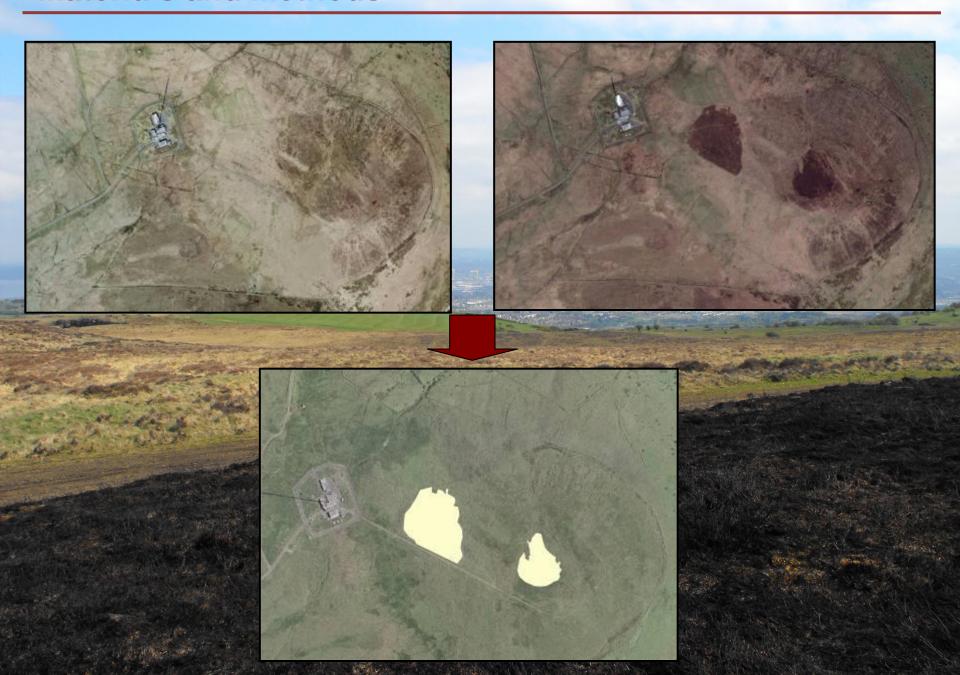


Fig. 2. Diagrammatic profile view of Callunetum showing the four phases.

(0-5 years)(6-15 years) (16-25 years)

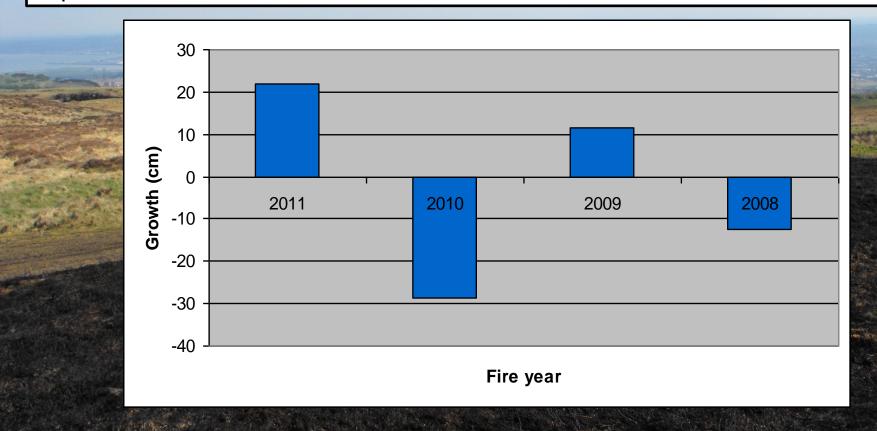
(26-30 years)





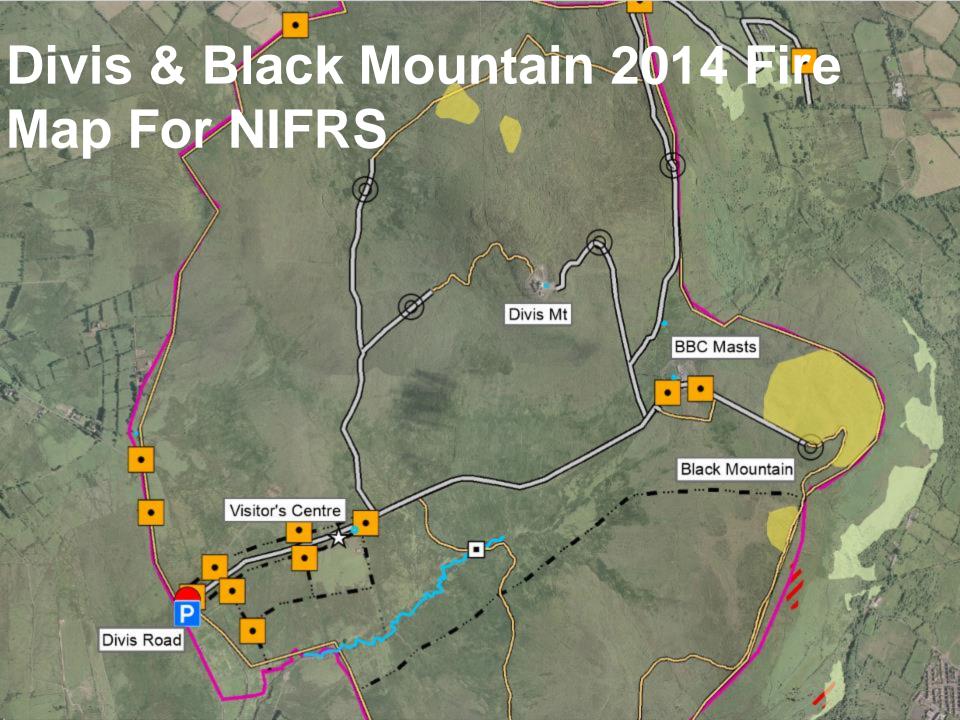
Results

- We can see how in some burned areas Calluna is taller than 3 years ago.
- -These areas correspond to the same areas with less lost coverage after the fire (2009 and 2011).
- We can assume that in these fires, fire intensity was low.
- -This fact suggests that in both of these years some plants survived without major impediments.



Key Factors







Wildfire Procedures 2015

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- 1. When fires are spotted or reported, the details as known must be entered in a Wildfire Record Sheet, detailing location, date, time and any other details known such as ignition point, local wind direction, cause of ignition etc. This will be saved electronically in a new individual Y:\PROJECTS\Wildfires\Fire map info\Burns 201? folder.
- 2. A date for survey roughly 14 days after fire date should be put in the diary.
- 3. The Survey will be carried out then with 4 point photos taken and stored in Y:\Photos maps and archive\Photo library\Other\Wildfire Records.
- 4. The area of burn will be mapped in Google Earth and GIS for the records.
- 5. The folder should then contain:-
 - Wildfire Record Sheet
 - Shortcut to pics
 - KMZ and GIS files can be copies

Belfast Hills Wildfire Record Sheet 2015

Conoral Dotaile Site Name:

General Details Site Name				
Surveyed by				
Survey Date (>14 days after fire)				
Date/time of fire (if known)			Types of Habitat Affe	ected
Reported by:			Heathland	
Staff reported to:			Bogland	
Ignition point (if known)			Grassland	
Centre Point co-ordinates				
0	-! D			
Spe	cies Bur	ned (if known)		
Other – please state:				

Severity of Fire							
Burn severity	Area indicator characteristic 1	Area indicator characteristic 2 (Not always present)	Vegetation indicator characteristic				
0	No evidence of wildfire	-	-				
1	40%+ vegetation cover remains in burned area	Both charred and unburned litter present	Top of vegetation burned only				
2	2% - 39% vegetation cover remains in burned area	Black char covers most soil in burned area	Some vegetation left with new vegetation sprouting				
3	2% - 39% vegetation cover remains in burned area	Black char covers all soil in burned area	Only woody plants still alive with new vegetation sprouting.				
4	1% or less vegetation cover remains in burned area	Black char covers the soil	Woody plants burned completely. Soil burned below surface less than 10cm.				
5	1% or less vegetation cover remains in burned area	White and/or grey char covers the soil	Woody plants burned completely. Soil burned below surface 10cm or greater. Still warm?				

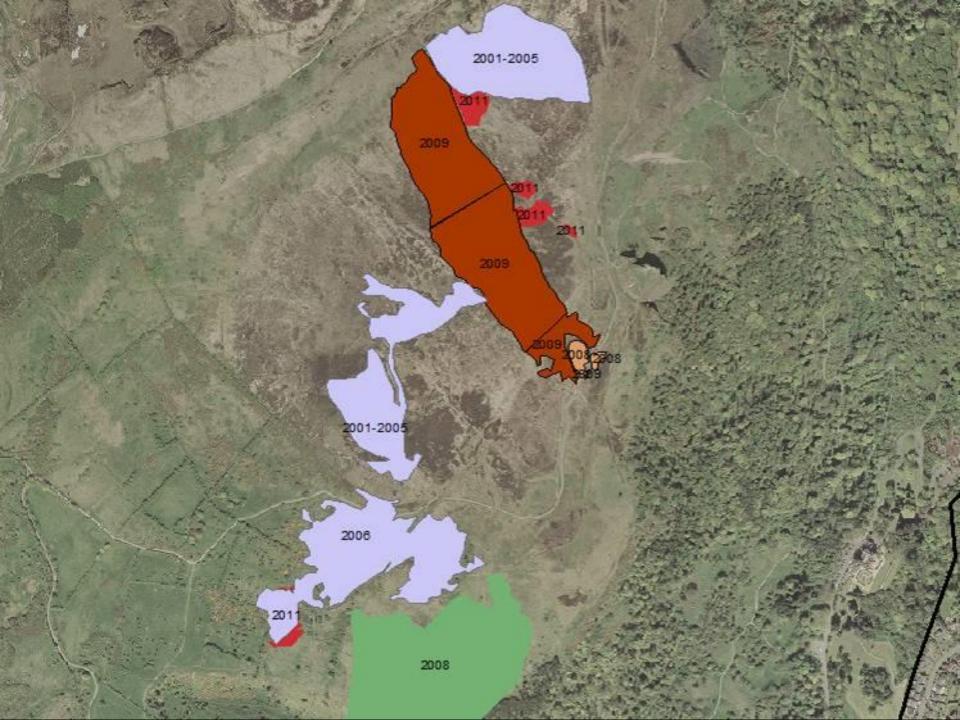
Additional Comr	ments:		











Next steps

- Clear agreement on objectives e.g. prediction, prevention or impact measurement?
- Common methodology essential
- Ongoing Sharing of data and lessons