

Yorkshire Dales – classification of protected areas into IUCN Management Categories

Mark Fisher, November 2013 Wildland Research Institute

Ingleborough National Nature Reserve

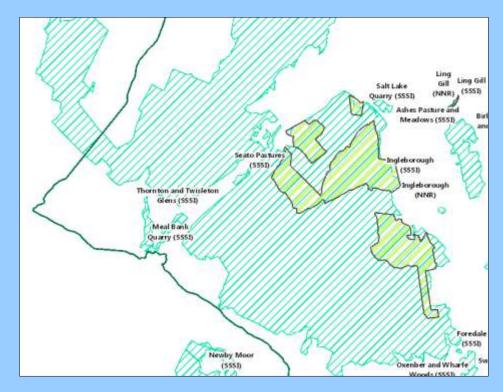
Nesting of protected areas

- •Ingleborough NNR covers 1,012ha officially opened 1993
- •The NNR is inside the much larger Ingleborough SSSI
- •the SSSI is inside the Yorkshire Dales National Park

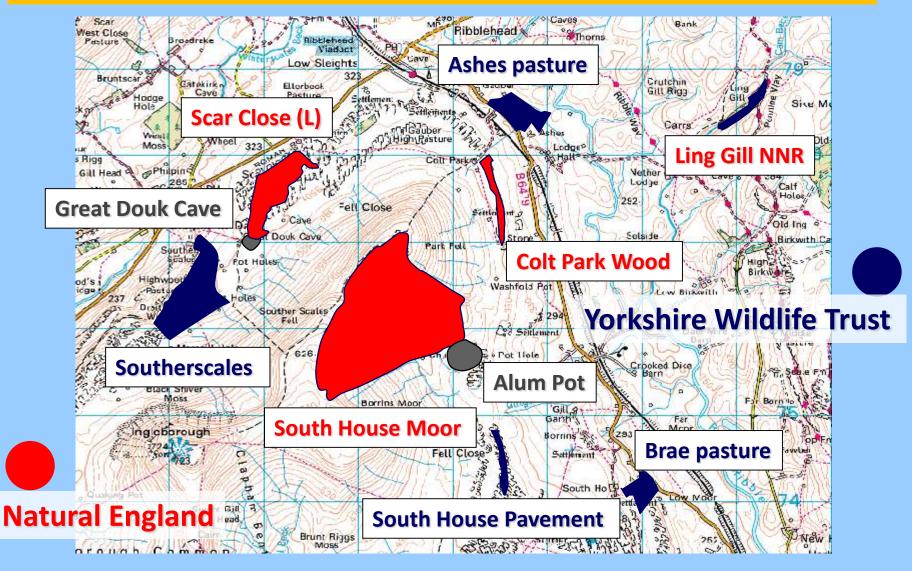




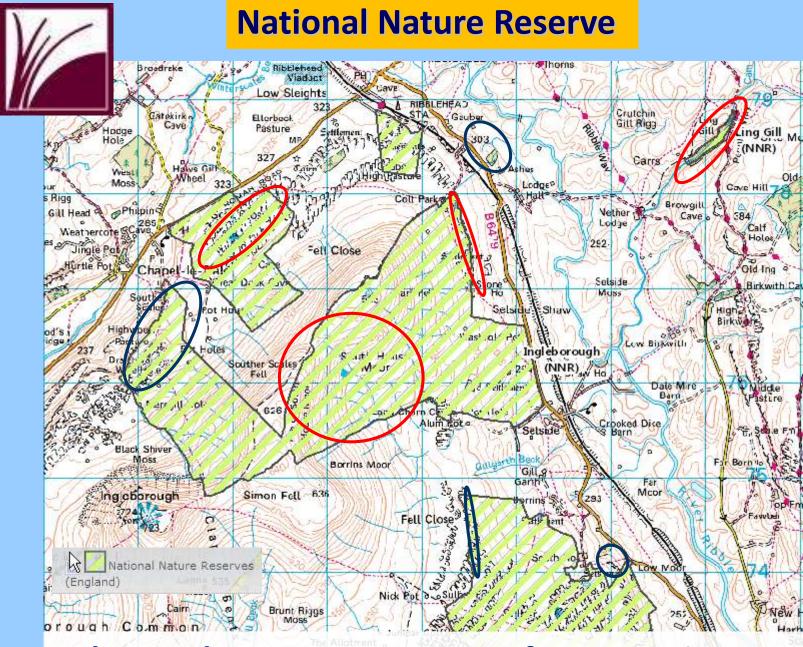
most of the NNR is publicly owned and managed by Natural England
some areas are on long leases to NE
two reserves in the NNR are owned and managed by the Yorkshire Wildlife Trust



Land ownership (or leasing) of protected areas

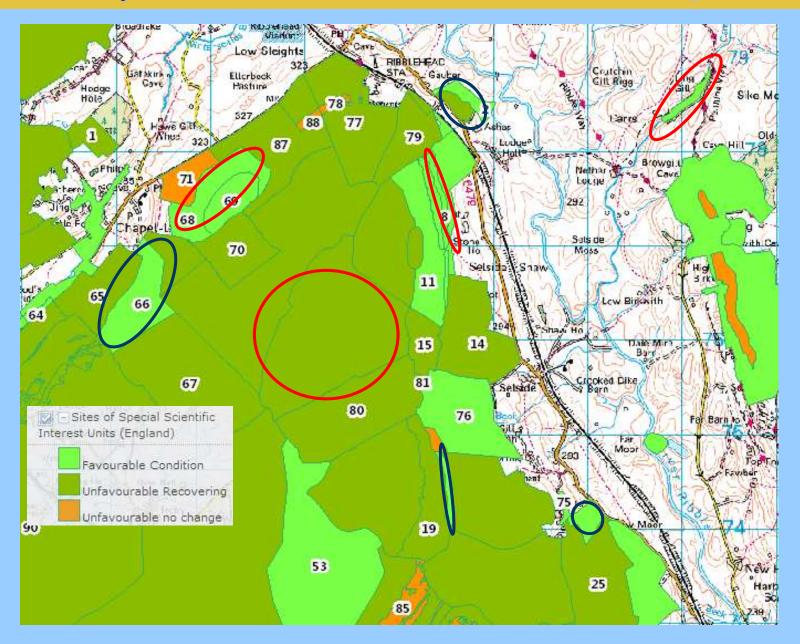


What do we know about their management?

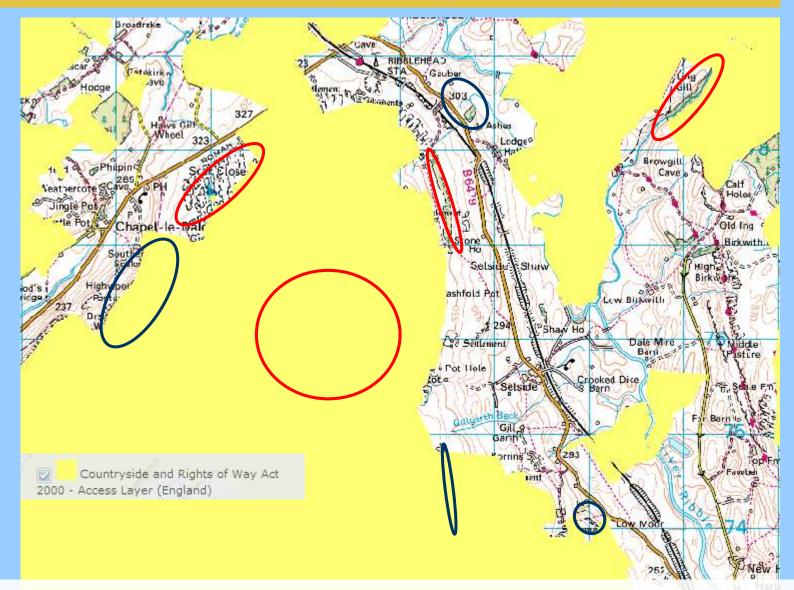


Ashes and Braemar Pastures of YWT not in NNR

Sites of Special Scientific Interest – Units and monitoring condition

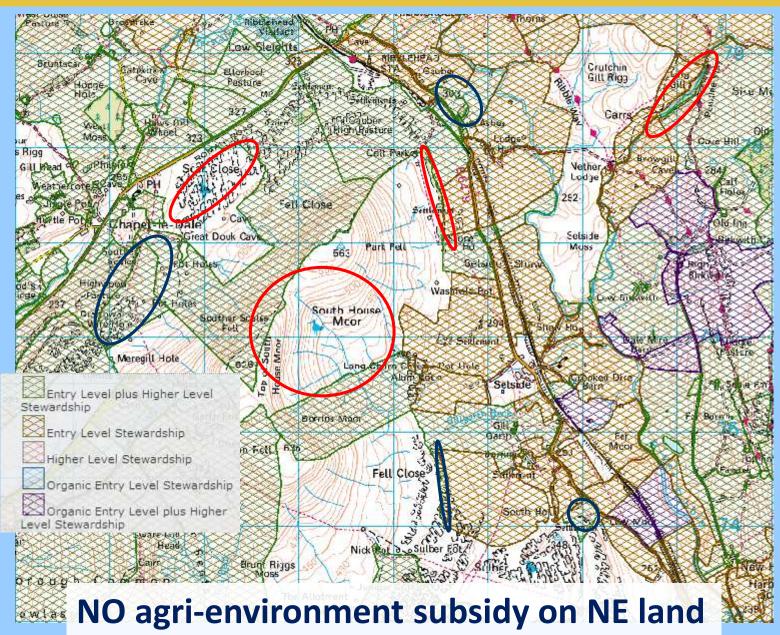


Open Access – Countryside Rights of Way Act 2000



No access to Scar Close, Colt Wood, and two of YWT

Agri-environment subsidy – stewardship Schemes



Summary of land based designations, access and schemes

	NNR	Access	HLS
Ling Gill	Y	Ν	Ν
Colt Park Wood	Υ	Ν	Ν
Scar Close	Y	Ν	Ν
South House Moor	Y	Y	Ν
Great Douk Cave	Υ	Y	Y
Ashes pastures	Ν	Ν	Y
Brae Pasture	Ν	Ν	Y
South House Pavement	Y	Y	Y
Southerscales	Y	Y	Y

all are units in Sites of Special Scientific Interest (SSSI)
none are registered common land

Is there any indication from this summary about how they are managed – how wild they are?



Environmental Stewardship Agreements (England)			
Agreement Reference	AG00334945		
Scheme	Entry Level plus Higner Lovel Stewardship		
Customer Name	YORKSHIRE WILDLIFE TRUST		
Town	Turk		
Start Date	01/04/2011		
Total Cost of Agreement (£)	129034.50		
Amount Paid to Date (£)	55861.40		
Total Area Under Agreement (ha)	61.61		

Agri-environment subsidy payment for grazing over 10 years of the agreement





paid to graze

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Brae Pasture Nature Reserve



paid to graze

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Ashes Pastures Nature Reserve

Wildlife Trust

South House Pavement Nature Reserve



paid to graze and NOT to graze

Javany	Petrony	Marek	4019
Inter-20 stream	1414 - 20 storeg	Max - 30 Manp	No Stock
May	Jave	July	hapest
		No etcols	
No Shoek	Min Shortk	Mid July 19-15 calify	03.05 carrie
September	Outster	November	Deservices
15-15-cattle & 20 Mane	15-15 Lintle & 20 shares	1015 cable 8:26	Max - 20 strong



paid to graze - grazing set to none!

South House Moor Re-wilding Project

"Within living memory the dwarf shrub communities on Ingleborough and the surrounding hills have been devastated by overgrazing"

Project objectives:

- •demonstrate the ecological impact of **removing farming pressures**
- •upland vegetation communities re-establish and develop to a more **natural state**

 recreate natural mixture of upland plant communities of scattered native woodland grading into Juniper scrub communities and dwarf shrub moorland

- sheep grazing ceased Summer 1999

- 10,000 native trees and shrubs planted in copses and along gill sides (10ha) Autumn 1999-2002

- Juniper and willow scrub will established on the scree slopes
- first generation trees act as **seed parents** so that **natural regeneration** can take over in the long term

TROPHIC CASCADES – between grasses, slugs, field voles, common shrews and short-eared owls

Landscape in transition to greater structural complexity



SSSI Unit 16





Ling Gill National Nature Reserve

ancient ash woodland in a steep-sided gill
inaccessibility to grazing is probably the reason for its survival
Ancient Woodland Indicator plants, freshwater crayfish





Ling Gill



Colt Park Wood – an NNR before Ingleborough

- ancient ash wood on the deeply fissured limestone pavement

-luxurious growth of lichens, moss, ferns and carpets of wild flowers like golden saxifrage, shining cranesbill, woodruff and wood sorrel

-grazing excluded







deer toe print

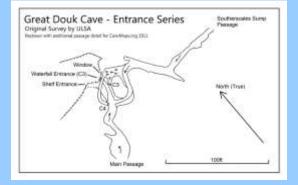


High scar to the east keeps sheep out



Wider grikes are roe deer avenues!

Great Douk Cave





SSSI Unit 87

Great Douk is walled off, the limestone pavement above the cave system is fenced





Cave entrance is in a large collapsed depression

Water flow comes in and quickly disappears

Ecological restoration through removing grazing



Limestone walk

Scar Close

Glance to your right to see wooded Scar Close. Grazing livestock have been excluded for many years allowing ash trees and hazel bushes to escape from the confines of the grikes.

This area now looks more like the landscape which existed prior to man's clearance of the upland woodlands that once covered the Yorkshire Dales. English Nature and other wildlife organisations are encouraging more land to move to a semi-wooded state, richer in plant, bird and insect life.

Ungrazed since 1974



SSSI Unit 68/69

Species of Scar Close and Southerscales

Species return mediated through the natural force of wind, and from birds and mammals



Southerscales (grazed



Scar Close – not grazed

Ash	Lesser meadow rue
Baneberry	Limestone oak fern
Blackthorn	Raspberry
Dog's mercury	Rigid buckler fern
Figwort	Rowan
Fragrant orchid	Sycamore
Gooseberry	Violet
Hawthorn	Welsh poppy
Hazel	Wood anemone
Heart's tongue fern	Wood sage
Ivy	Wood sorrel

Ecological restoration - reclaiming soil, humus, wildlife, natural processes

Angelica	Climbing corydalis	Heather	Solomon's seal
Ash	Daffodil	Honeysuckle	St John's wort
Baneberry	Devil's bit scabious	lvy	Stone bramble
Bilberry	Dog rose	Juniper	Strawberry
Birch	Dog's mercury	Lesser meadow rue	Sycamore
Bird cherry	Early purple orchid	Lily of the valley	Valerian
Birds eye primrose	Elder	Limestone oak fern	Violet
Birds foot trefoil	Field scabious	Meadow sweet	Water avens
Blackthorn	Figwort	Melancholy thistle	Welsh poppy
Bloody cranesbill	Globe flower	Milkwort	Willows x 3
Bluebell	Greater burnet	Orpine	Wood anemone
Bracken	Green spleenwort	Primrose	Wood cranesbill
Brittle bladder fern	Guelder rose	Raspberry	Wood sage
Bugle	Hard head	Red currant	Wood sorrel
Butterwort	Hawthorn	Rigid buckler fern	Yarrow
Cinquefoil	Hazel	Rock rose	Yew
Cowberry	Heart's tongue fern	Rowan	































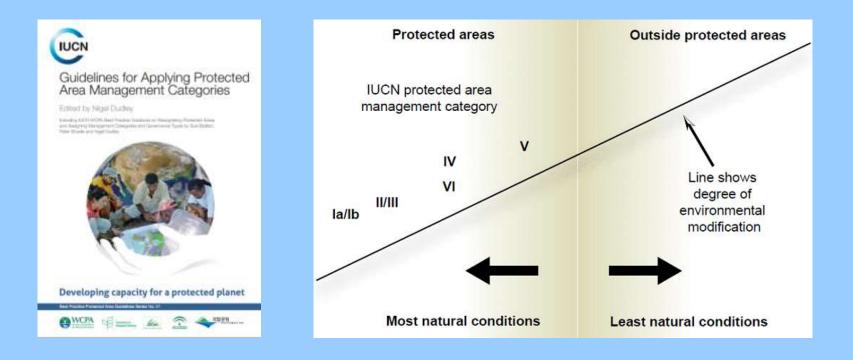


Summary of access and management approach

	Access	HLS	GRAZED
Ling Gill	Ν	Ν	Ν
Colt Park Wood	Ν	Ν	N
Scar Close	Ν	Ν	N
South House Moor	Y	Ν	N
Great Douk Cave	Y	Y	Ν
Ashes pastures	Ν	Y	Y/N
Brae Pasture	Ν	Y	Y
South House Pavement	Y	Y	N
Southerscales	Y	Y	Υ

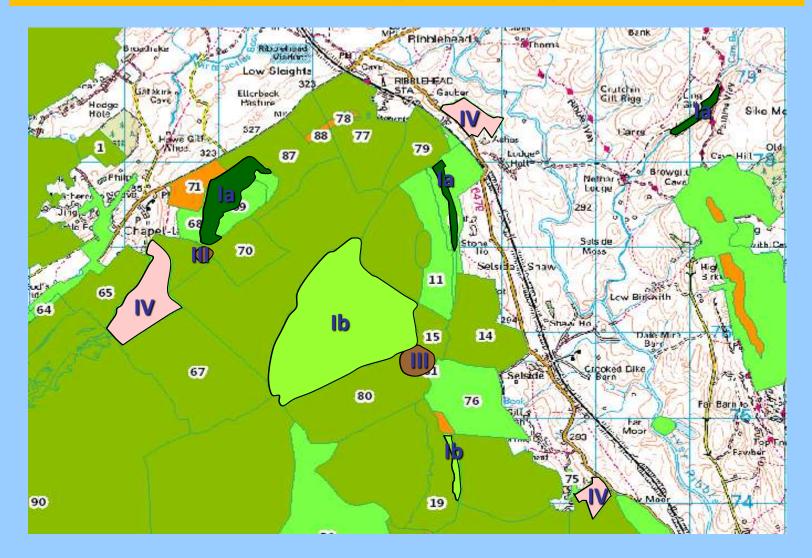
IUCN Categories are based on management approach – can we categorise these areas?

Classification within IUCN Management Categories



Ia&bStrict Nature Reserve / Wilderness AreaStrict protection without & with accessIINational ParkEcosystem conservation and recreation	
II National Park Ecosystem conservation and recreation	
III Natural Monument Conservation of natural features	
IV Habitat/Species Management Area Conservation through active management	
V Protected Landscape/Seascape Landscape/seascape conservation and recreat	on
VI Managed Resource Protected Area Sustainable use of natural ecosystems	

IUCN Management Categories for protected areas



Does our legislation have strictly protected areas?