

Yorkshire Dales – classification of protected areas into IUCN Management Categories

Mark Fisher, November 2013
Wildland Research Institute

Ingleborough National Nature Reserve

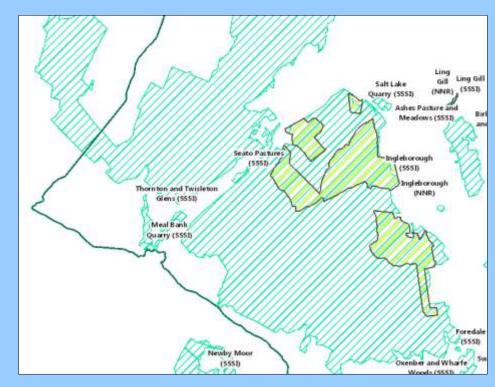
Nesting of protected areas

- •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

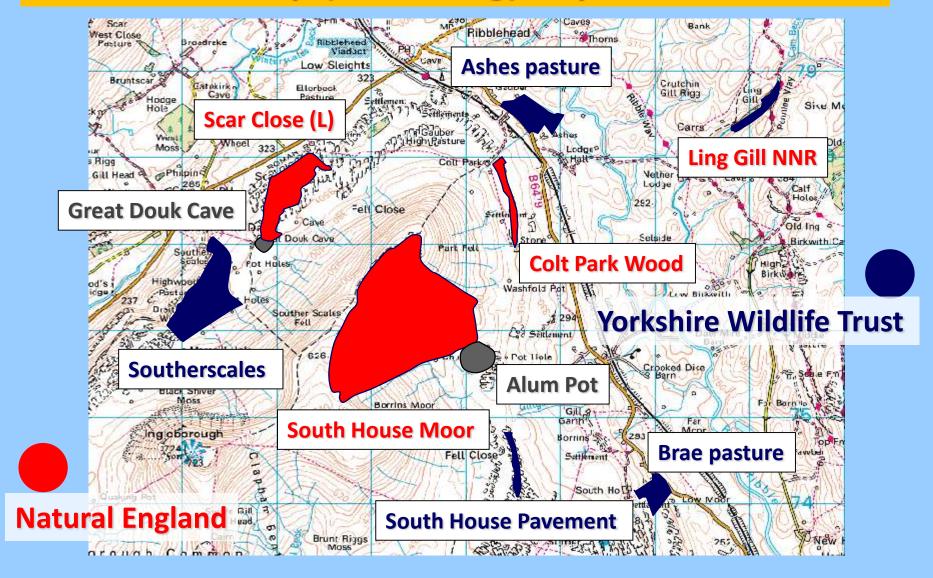




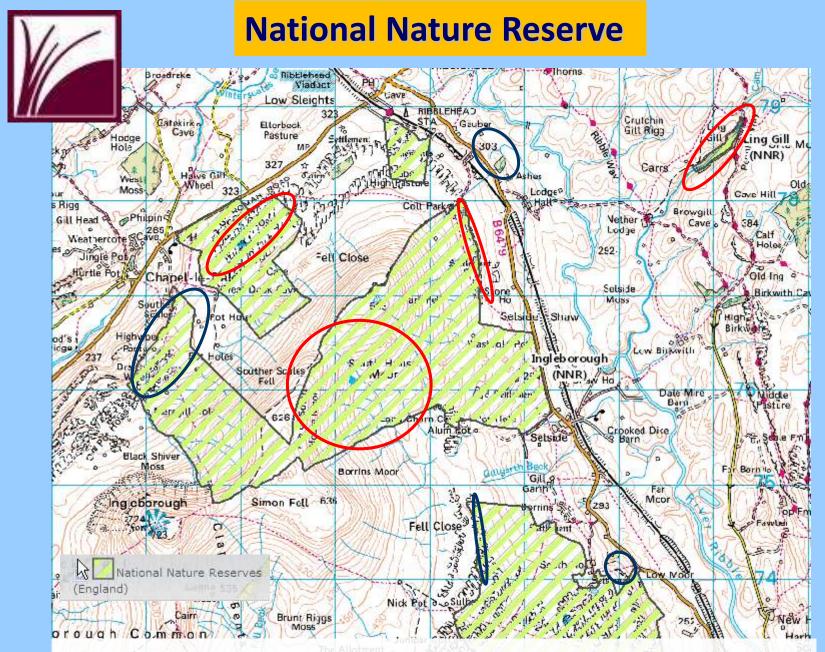
- most of the NNR is publicly owned and managed by Natural England
- some areas are on long leases to NE
- two reserves in the NNR are owned and managed by the Yorkshire Wildlife Trust



Land ownership (or leasing) of protected areas

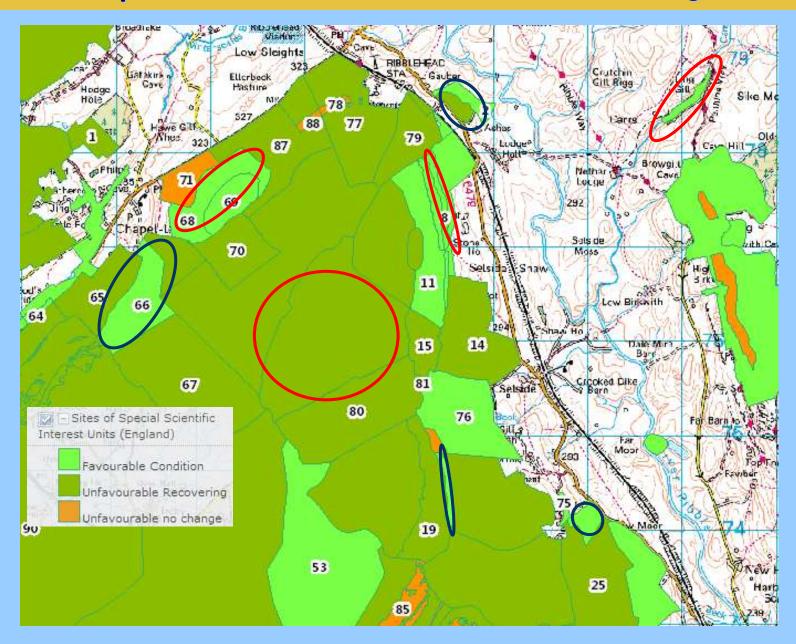


What do we know about their management?

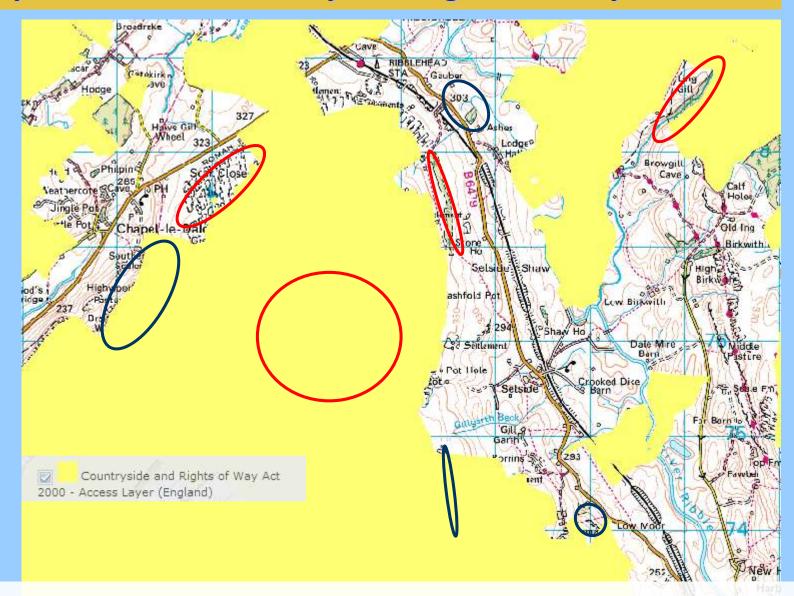


Ashes and Braemar Pastures of YWT not in NNR

Sites of Special Scientific Interest — Units and monitoring condition

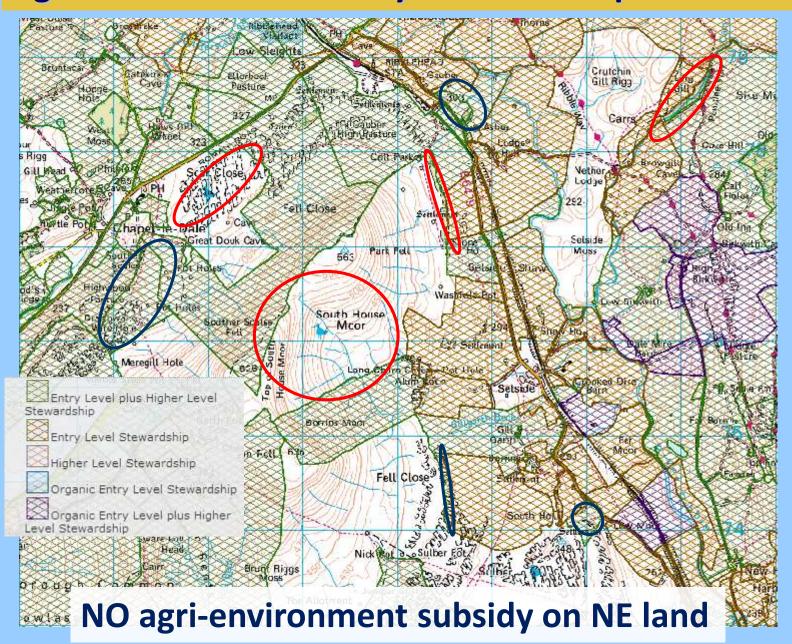


Open Access – Countryside Rights of Way Act 2000



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

Agri-environment subsidy – stewardship Schemes



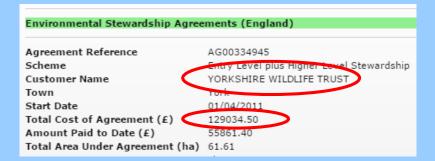
Summary of land based designations, access and schemes

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

- •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?





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















paid to graze and NOT to graze

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paid to graze

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paid to graze - grazing set to none!

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Particle - SDT4T62636 & SD74772901 (Southerscales)

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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



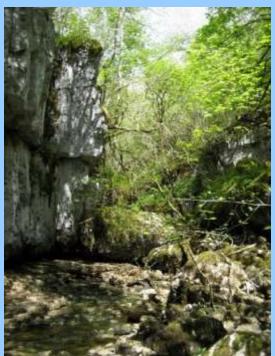
SSSI Unit 16





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











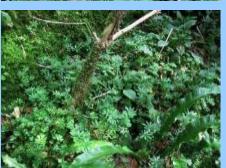
Wild! Rocks, water, woodland

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

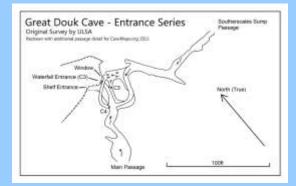


High scar to the east keeps sheep out



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











Water flow comes in and quickly disappears

Ecological restoration through removing grazing



Limestone walk

Ingleborough National Nature Reserve

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





Species of Scar Close and Southerscales

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

Ash

Baneberry

Blackthorn

Figwort

Dog's mercury

Fragrant orchid

Gooseberry

Hawthorn

Cowberry

Hazel

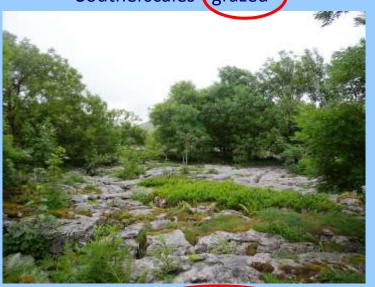


Ecological

Heart's tongue fern

Lesser meadow rue
Limestone oak fern
Raspberry
Rigid buckler fern
Rowan
Sycamore
Violet
Welsh poppy
Wood anemone
Wood sage
Wood sorrel

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



Scar Close - not grazed

Angelica Climbing corydalis Ash Daffodil Devil's bit scabious Baneberry Bilberry Dog rose Birch Dog's mercury Early purple orchid Bird cherry Birds eye primrose Elder Birds foot trefoil Field scabious Blackthorn **Figwort** Bloody cranesbill Globe flower Bluebell Greater burnet Bracken Green spleenwort Brittle bladder fern Guelder rose Bugle Hard head Butterwort Hawthorn Cinquefoil Hazel

Heart's tongue fern

Heather Honeysuckle lvy Juniper Lesser meadow rue Lily of the valley Limestone oak fern Meadow sweet Melancholy thistle Milkwort Orpine Primrose Raspberry Red currant Rigid buckler fern Rock rose Rowan

Solomon's seal St John's wort Stone bramble Strawberry Sycamore Valerian Violet Water avens Welsh poppy Willows x 3 Wood anemone Wood cranesbill Wood sage Wood sorrel Yarrow Yew



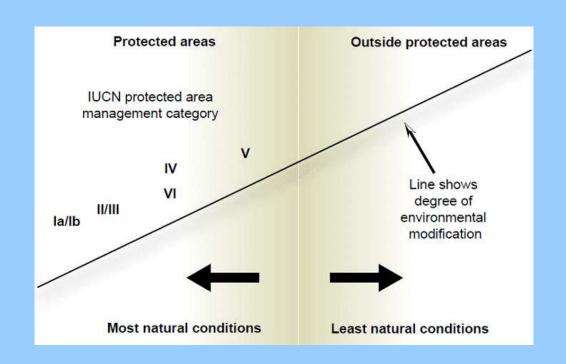
Summary of access and management approach

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

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

Classification within IUCN Management Categories





CATEGORY Protected area name

Area managed for

la&b	Strict Nature Reserve / Wilderness Area	Strict protection without & with access
Ш	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 recreation
VI	Managed Resource Protected Area	Sustainable use of natural ecosystems

IUCN Management Categories for protected areas



Does our legislation have strictly protected areas?