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Kit you are wearing

Sunglasses

Sunscreen

Base layer

Alcohol gel

Camera etc

Trekking trousers

Gaiters



Scarf / buff

Whistle

Watch, altimeter

Food

Map and compass

Mobile phone and emergency contacts

Mountaineering boots



First Aid

Danger Response

Alert
Voice
Pain
Unresponsive

SHOUT FOR HELP

Airway
Breathing
Circulation
Damage
Everything else

Signs and symptoms
Allergies
Medication
Past history
Last meal
Event

Prepare for Emergencies

Keep warm

Bring the right clothes
Group shelter

Energy and hydration

Regular rations!
Keep morale high
Don't carry too much

Check local weather the day before

MWIS Met Office

fore

Plan your route

Tell others where you are going!
Make a laminated map
Escape routes
Bring navigation kit

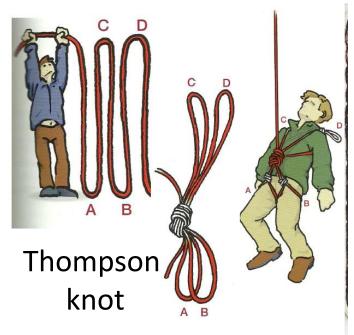
First aid

Attend a course
Recovery position
Heart massage to 'Stayin alive'
Stop blood leaks via pressure and elevation
Emergency phone numbers

Ropework

- A walking rope and how to store it
- Overhand knot and loops
- Confidence roping
 Thumbs up Z!
- Simple belay using a fixed anchor
- South African descent
- Improvised harness demo





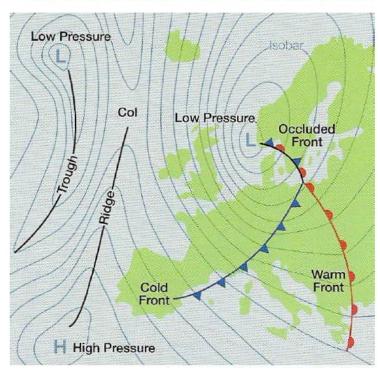
UK mountain weather

Dry air lapse rate = -1° C /100m Wet air lapse rate = -0.5° C /100m

Wind at 1000m is 2 to 3 x wind speed at 0m

5mph (valley) for every isobar which crosses the UK

Synoptic charts More fronts more weather!



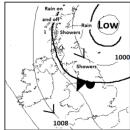


MOUNTAIN WEATHER INFORMATION SERVICE Snowdonia National Park



Betws-y-Coed - The natural choice for generations visiting Snowdonia. Start your journey at http://www.betws-y-coed.co.uk/

General Summary for Tuesday, 19th July, 2011



British Mountain Summary: Based on forecast chart for noon 19th July, 2011

North or northwesterly winds will bring generally showery conditions, although particularly across northern Scotland, there may be areas of more widespread rain associated with the remnants of fronts. Winds light, except over the eastern Highlands.

Headline for Snowdonia National Park

Showery; fairly light wind.

Detailed Forecast for Tuesday, 19th July, 2011

How windy? (On the summits)	Northwesterly, 20 to 25mph; gusts may reach 40mph on highest summits.				
Effect of wind on you?	Fairly small generally, although significant buffeting for periods on highest summits.				
How wet?	Showers				
	Showers, at times frequent on coastal hills, particularly morning. Most showers well inland in afternoon. Very wet underfoot north and west after recent rain.				
Cloud on the Lifting to cover only higher tops hills?					
	Cloud base typically 450-650m, although nearer 750m Bala area until mid or late morning, then gradually rising to 950m, although in and after rain, cloud will lower again.				
Chance of cloud free summits?					
Sunshine and air clarity?	Only glimpses of sun. The air often very clear, but visibility restricted by rain and very poor where in cloud.				
How Cold? (at 900m)	8 or 9C.				
Freezing level	Above summits.				

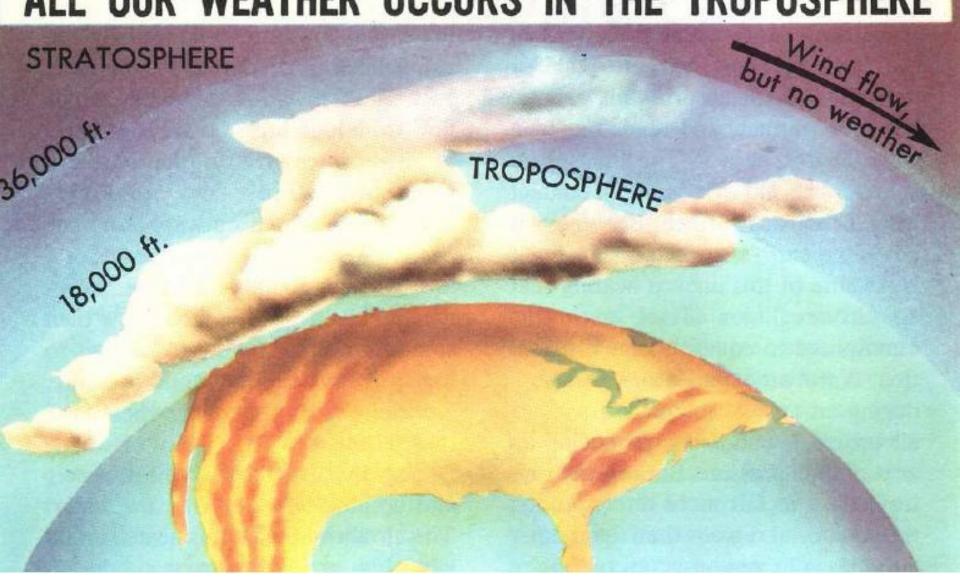
Looking Ahead

LOOKING Allead					
	Wednesday, 20th July, 2011	Thursday, 21st July, 2011 Northerly, 15mph.			
How windy? (On the summits)	Generally northerly, 10mph.				
Effect of wind on you?	Negligible	Negligible			
How wet?	Showers	Risk of showers			
	Scattered showers, rarely heavy.	A few showers, generally only well inland by afternoon.			
Cloud on the hills?	Often clearing	Often clearing, particularly south			
	Generally cloud above most summits by midday, although may persist above 950m, with few breaks above. Should widespread rain develop, then cloud may well drop widely to 500m.	Northern hills: extensive cloud base 700 rising to 900m, rarely 500m in morning. The cloud may intermittently clear higher summits in afternoon. Elsewhere: summits extensively cloud free by late morning.			
Chance of cloud free summits?	70%	60%			
Sunshine and air clarity? Pockets of sun probable, most widel morning. The air very clear.		Patchy sunshine. The air very clear.			
How Cold? (at 900m) 7C.		6 rising to 8C toward south.			
Freezing level	Above summits.	Above summits.			

Planning Outlook: All mountain areas of Britain from Wednesday, 20th July, 2011

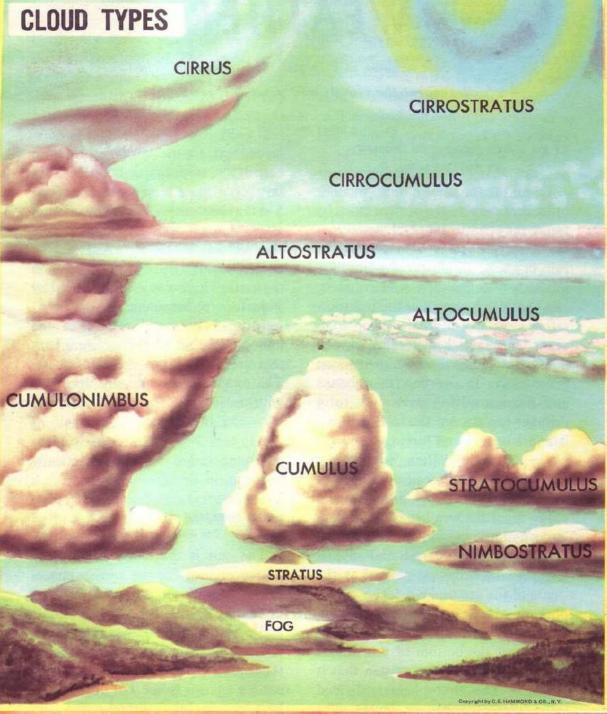
Northerly winds most of this week will bring generally chilly, often cloudy conditions with showers, at times heavy. The air will by very clear indeed, and with cloud often above the summits, views will often be superb. Very likely dry with light winds most or all weekend.

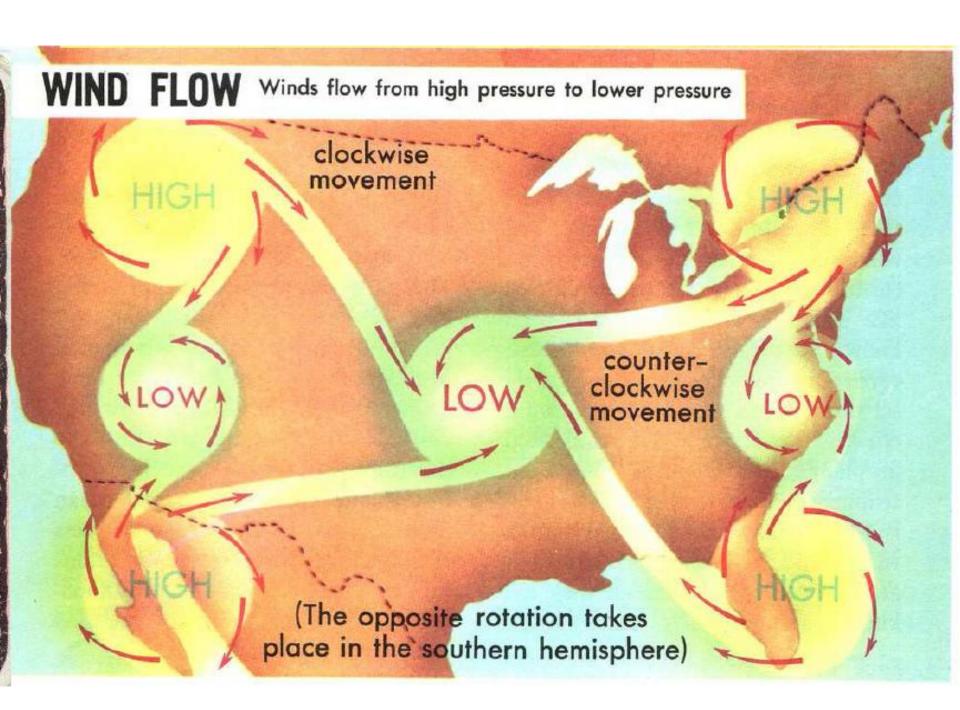
ALL OUR WEATHER OCCURS IN THE TROPOSPHERE

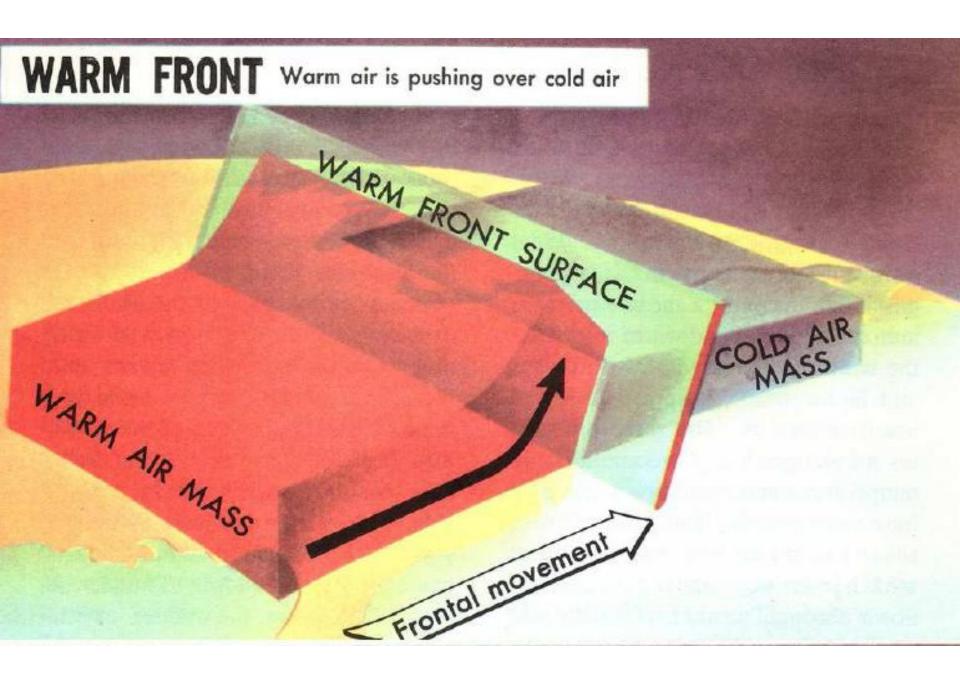


Cloud types









CROSS SECTION OF CLOUDS ON A WARM FRONT

CIRRUS

CIRROSTRATUS

ALTOSTRATUS

WARM FRON

COLD AIR

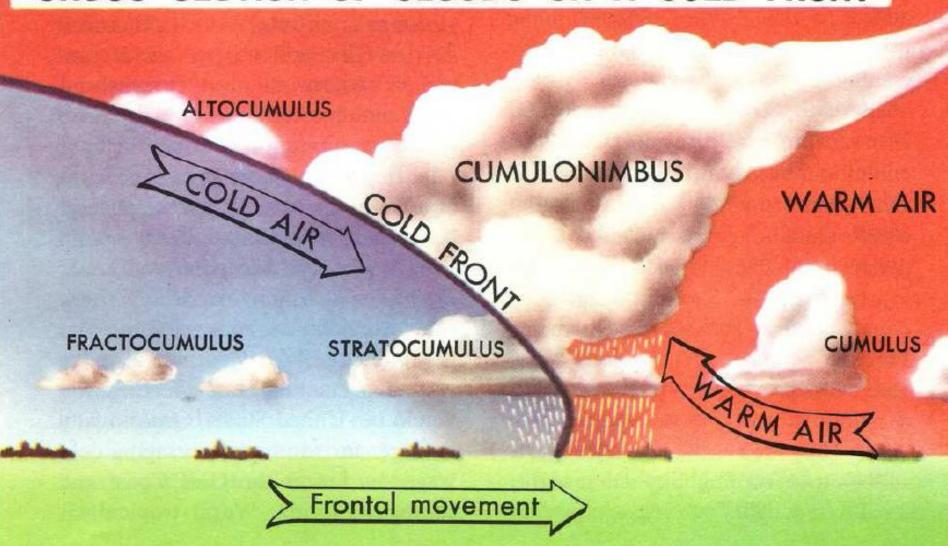
NIMBOSTRATUS

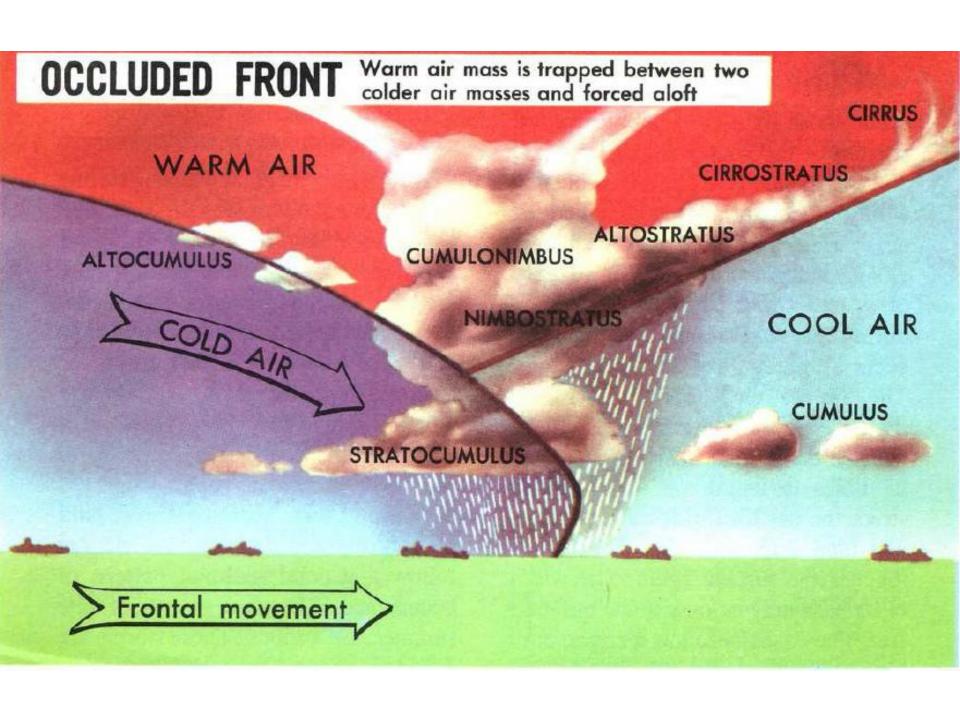
WARM AIR

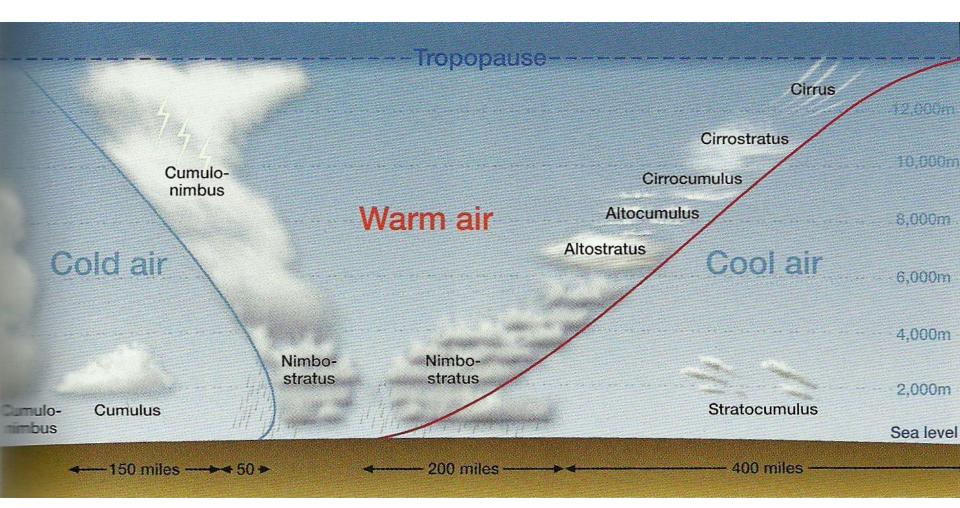
STRATUS

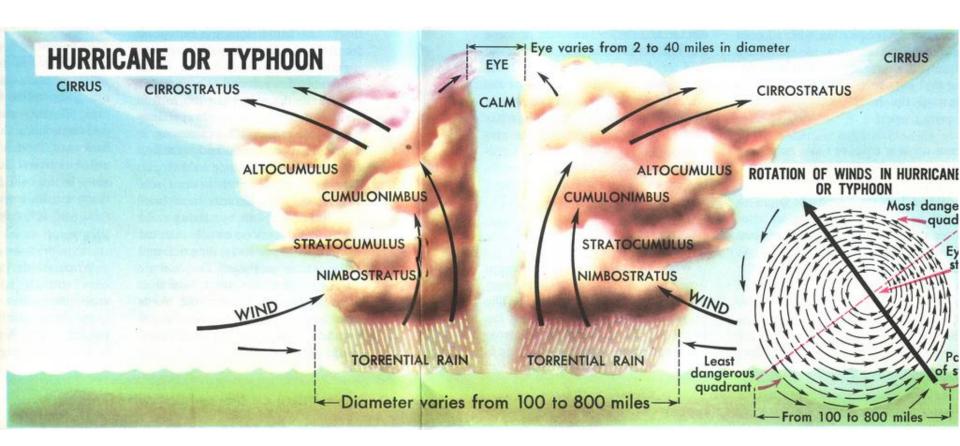
Frontal movement

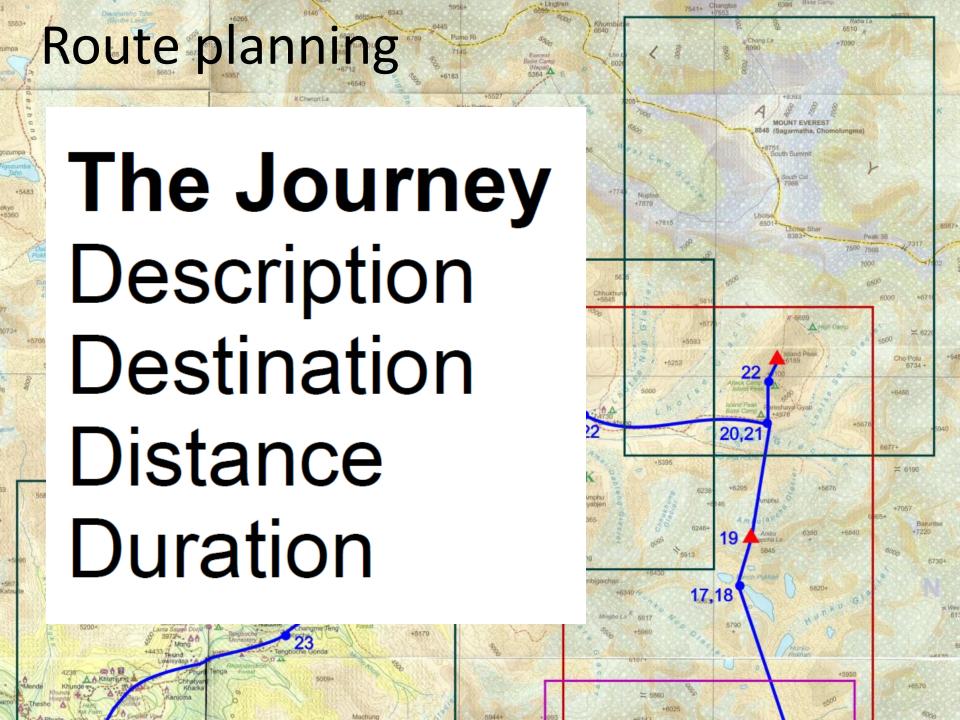
CROSS SECTION OF CLOUDS ON A COLD FRONT



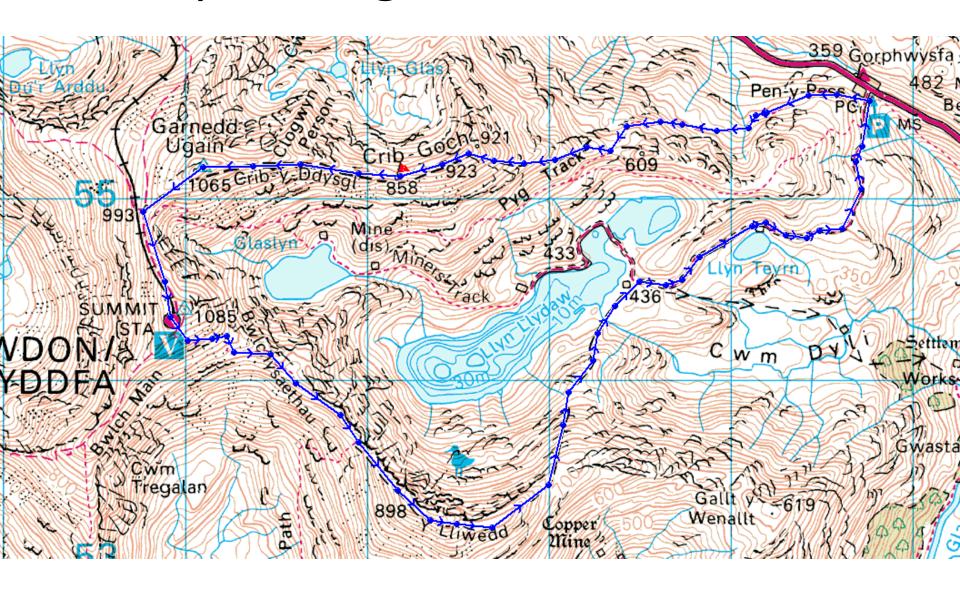








Route planning

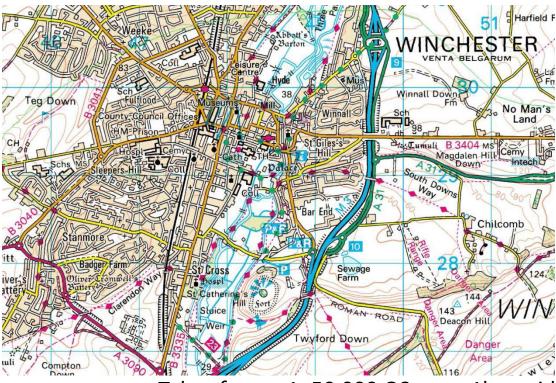


Maps

1:50,000 means 1cm per 500m 1:40,000 means 1cm per 400m 1:25,000 means 1cm per 250m



200m grid



Taken from a 1: 50,000 OS map. 1km grid

Pacing

Flat 64 paces per 100m — Hilly 75 paces per 100m

AF

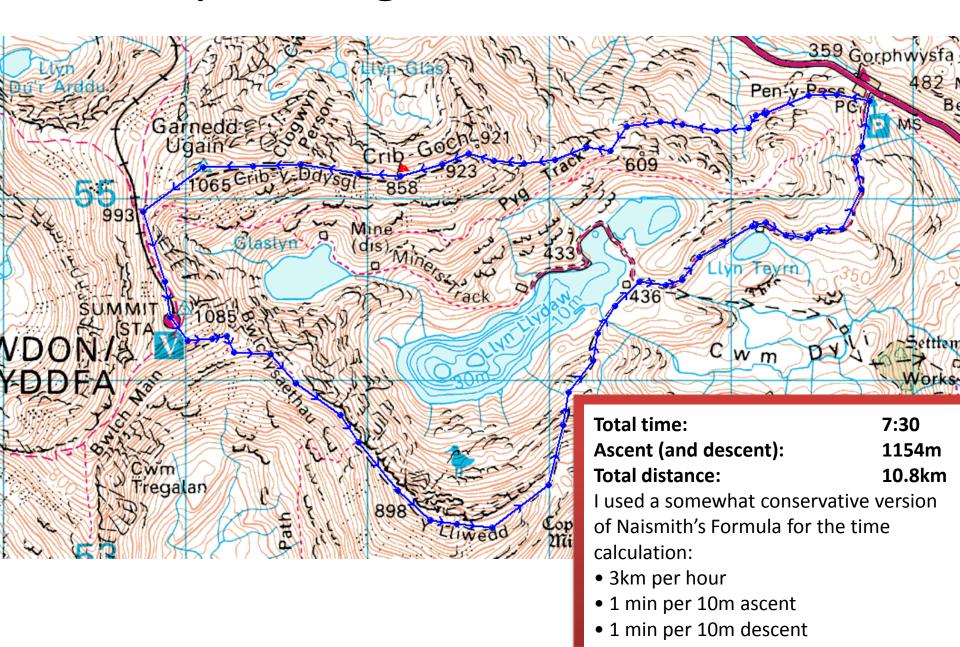
Naismith 4km per hour + 1 to 1.5 min per 10m ascent

Mark where you are on a map as you go along. Counting paces enables you to estimate distances within a few tens of metres

	Achintee Ho Meall an
	t-Suidhe Carri-Deerg 11-79 Meadhonach 11-7
	Carri Mor 1/220 Dearg 1/221/ Coire
というサーン	Mound B E-N Leis N E-V I S
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rocking School Carn 1943 Shelts Shelts 22 Observatory
* *	water as the second sec

Distance	Speed kilometres per hour				
travelled metres	5	4	3	2	
1000m	12 min	15 min	20 min	30 min	
800m	10 min	12 min	16 min	24 min	
700m	9 min	11 min	14 min	21 min	
500m	6 min	7½ min	10 min	15 min	
400m	5 min	6 min	8 min	12 min	
200m	2½ min*	3 min	4 min	6 min	
100m	1½ min*	1½ min	2 min	3 min	

Route planning



Where to go?







Scotland

- Loch Lomond, Arrochar Alps
- Glen Coe
- Nevis Range, Ring of Steall
- Torridon, Skye



Aonach Mor

Carn Mor Dearg (CMD) arête, Ben Nevis

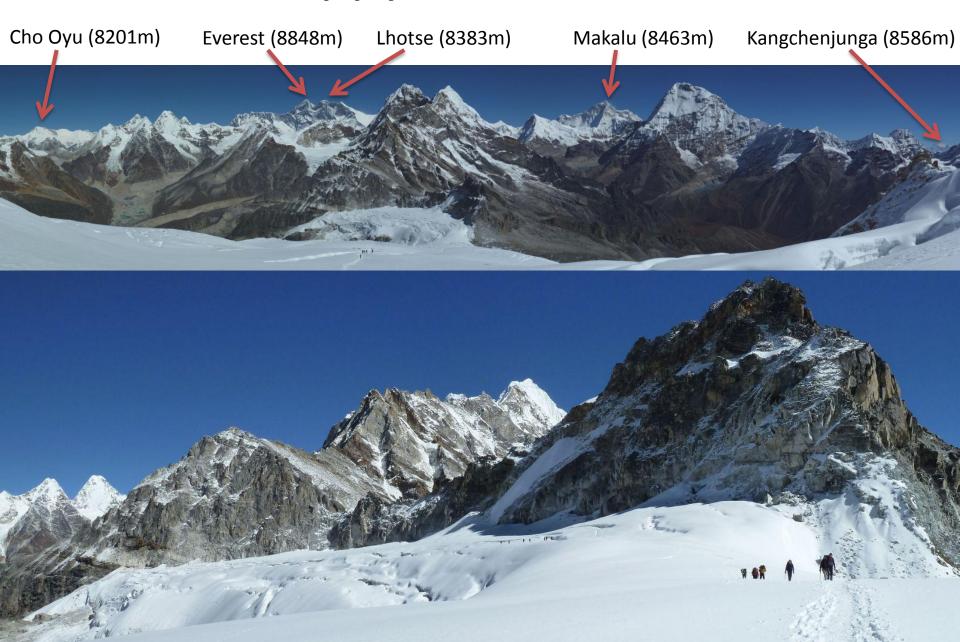


Where to go?

- The Alps
 - Chamonix valley and Mont Blanc (France)
 - Ecrins, France
 - Matterhorn, Zermatt region (Switzerland)
 - Italian Alas, Grand Paradiso
 - Dolomites (Italy
 - Bernese Oberland, Eiger (Switzerland)
 - Haute Route
 - <mark>Ak</mark>ainism, ski touring



Happy adventures!







Further information and courses















British Mountaineering Council