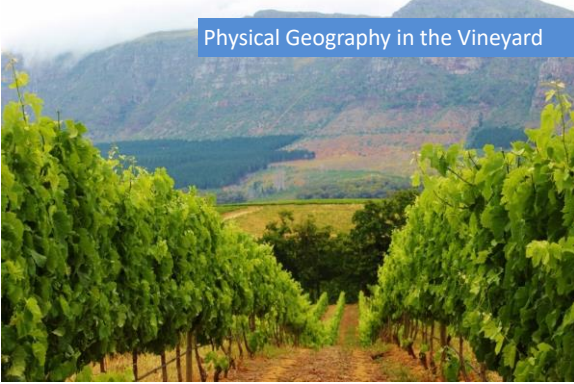


Rías, Benches, Slopes, and Scarps

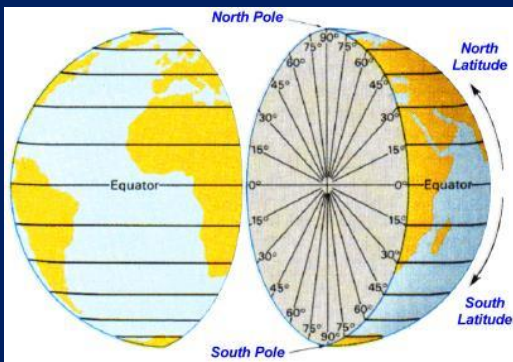
Physical Geography in the Vineyard



Latitude

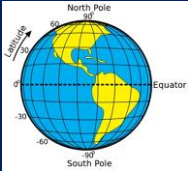

The geographic coordinate that specifies north/south position

The angular distance of a place north or south of the equator




Higher Latitudes

- Closer to the poles
- Cooler climates
- Cooler summer nights
- Longer summer days
- Frost/freeze risks
- Includes the temperate zones

Lower Latitudes

- Closer to the equator
- Warmer climates
- Hot summer nights
- Longer winter days
- Messes with winter dormancy
- Includes the tropics





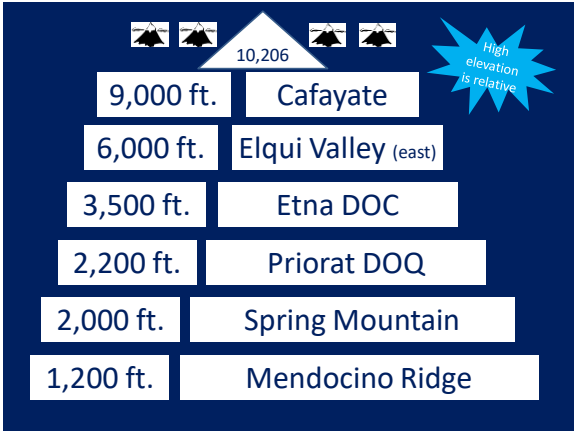
Vinifera loves...

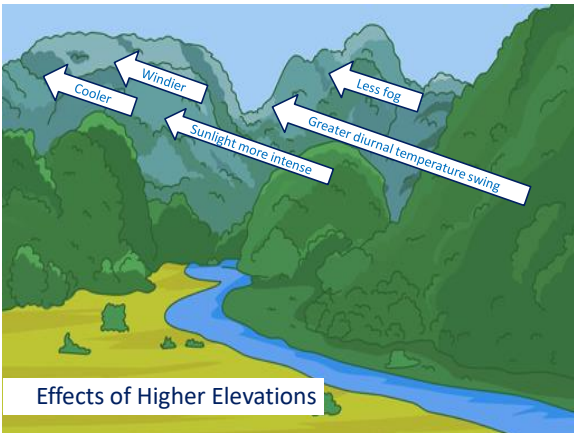
30°-50°

Elevation

Height above sea level.

High elevation vineyard is an undefined term.



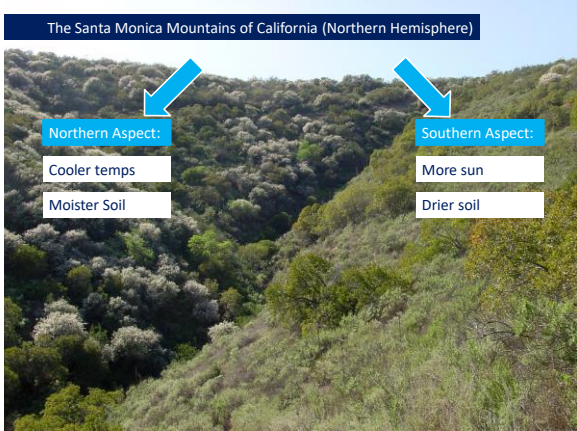


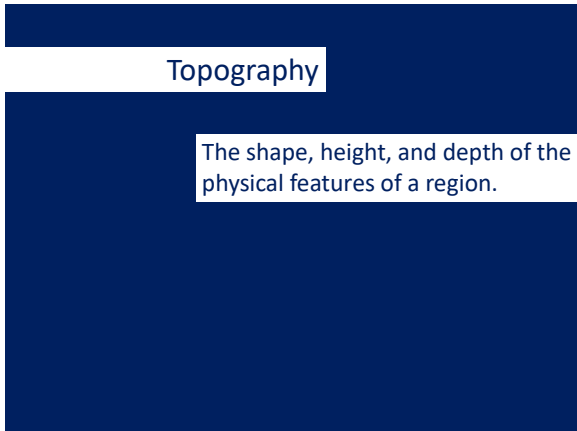
Aspect

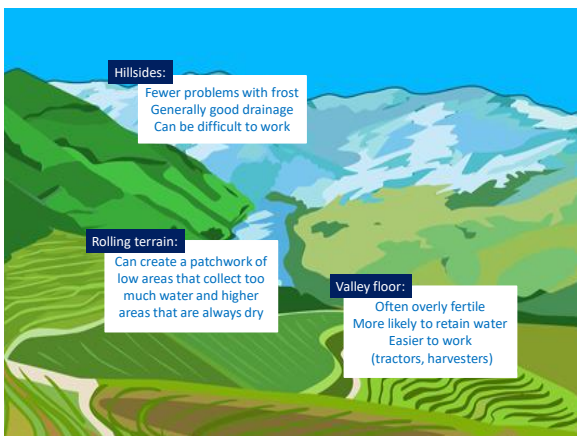
The compass direction that a slope faces

In the Northern Hemisphere, a south-facing slope gets the most sun.

In the Southern Hemisphere, a north-facing slope gets the most sun.

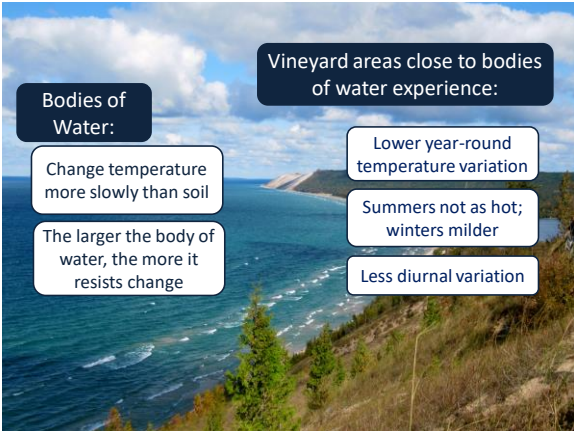






Bodies of Water

Water can both absorb heat (without raising its temperature) and retain heat (resist cooling) better than most substances.



Rías, Benches, Slopes, and Scarps



Rías, Benches, Slopes, and Scarps

Which is:

An area with a sudden change in elevation?

Referred to as a "côte"?

An estuary?

An area with a gentle incline?

A body of water where a river flows into the sea?

A strip of level ground land bounded by steeper slopes above and below it?

The face of a cliff ?

Horizontal lines for writing answers to the first set of questions.

Rías

Horizontal lines for writing notes or answers related to the Rías title.

Rías

A ría is a type of estuary.

An estuary is a partially enclosed body of water located where a river or stream flows into the sea.

Rías are drowned river valleys.

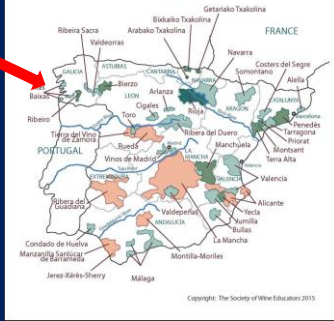
Horizontal lines for writing notes or answers related to the Rías definition.







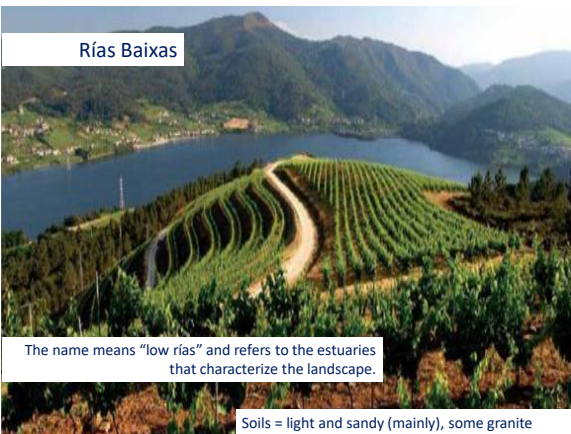
Major Wine Regions of Spain





Map via: <http://www.demaisonselections.com/galicia.html>

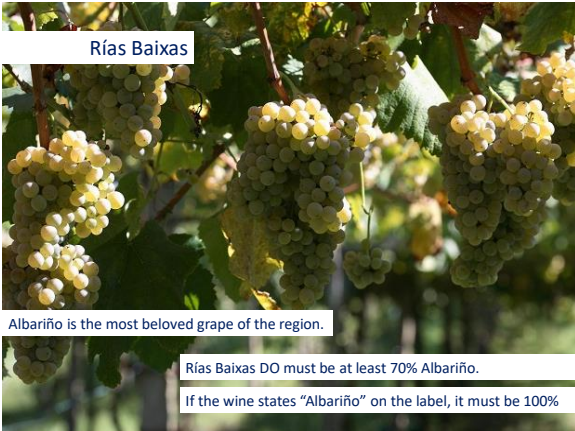
Rías Baixas



The name means "low rías" and refers to the estuaries that characterize the landscape.

Soils = light and sandy (mainly), some granite







Scarps

A scarp is the cliff-face of an escarpment.

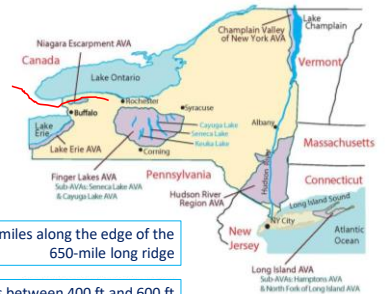
An escarpment is an area of the earth where the elevation changes suddenly.

The Niagara Escarpment





Map via: <https://www.geocaching.com>



The AVA extends for 30 miles along the edge of the 650-mile long ridge

The AVA has elevations between 400 ft and 600 ft

The scarp has a warming effect: Cold air streams off the ridge down to the water, and warmer air from the lake rises to the upper layers of the Escarpment

“Lake Effect”

The map shows the Niagara Escarpment AVA, Champlain Valley of New York AVA, Finger Lakes AVA, Hudson River Region AVA, and Long Island AVA. It also labels Lake Ontario, Lake Erie, Cayuga Lake, Seneca Lake, and Oneida Lake, along with cities like Buffalo, Rochester, Syracuse, Albany, and New York City.

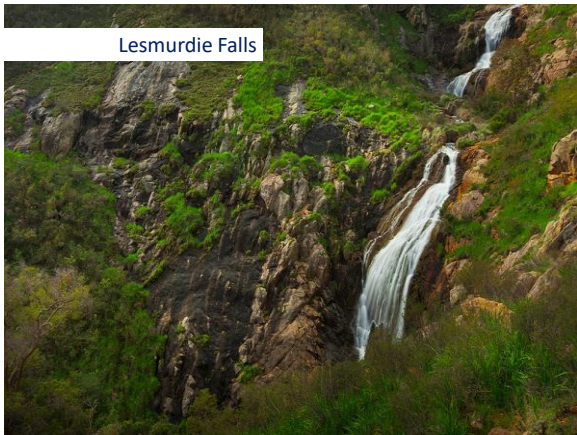


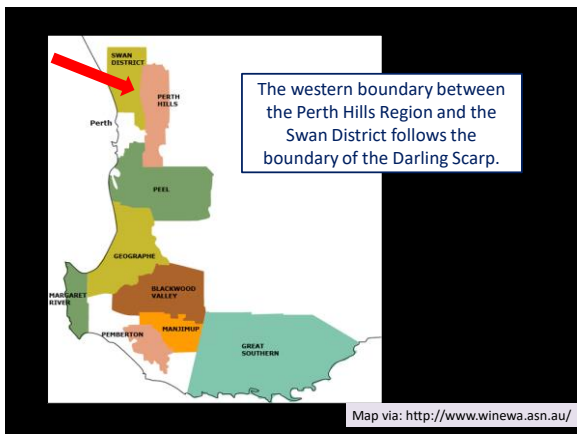
Major Wine Regions of Australia




The map shows wine regions in Western Australia (Swan District, Perth Hills, Margaret River, Great Southern, Mount Barker, Frankland), South Australia (Barossa Valley, Clare Valley, Eden Valley, McLaren Vale, Adelaide Hills, Coonawarra, Mornington Peninsula), and New South Wales (Murray Darling, Riverina, Mudgee Hunter, Sydney, Orange, Rutherglen, Goulburn Valley, Yarra Valley). It also shows Tasmania and Hobart. A red arrow points to the Perth Hills region.







Swan District: Below the Scarp:		Perth Hills Atop the Scarp:
Sea level-150 ft.		1,000-1,400 ft.
Warm-to-hot Mediterranean	Climate	Warm days/cold nights
76°F	Avg. January Temp	73°F
Coast: Sand/limestone Valleys: Red loam/alluvial Hills: Sand over clay	Soil	Gravelly loam
	Harvest Dates	10 days - 2 weeks later than the Swan District!

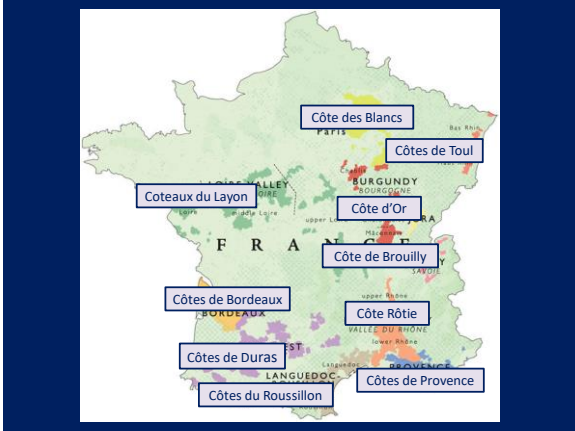
Slopes

Slopes

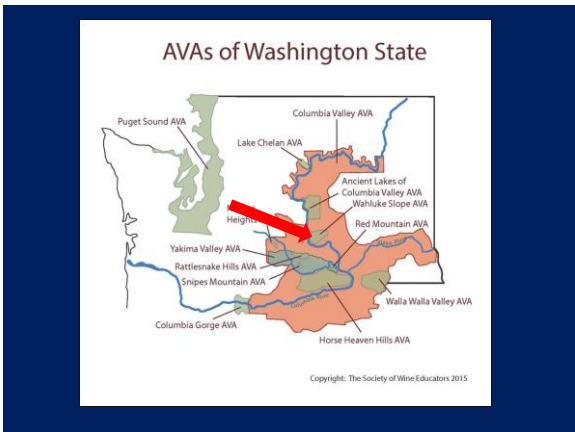
An inclined piece of ground.

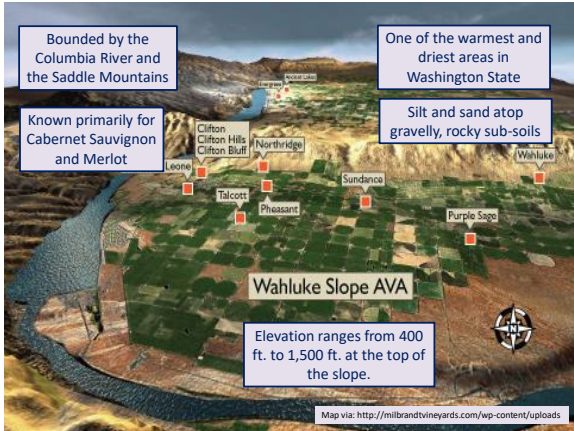
In geography, the term is often used to refer to foothills.

In French - Côte







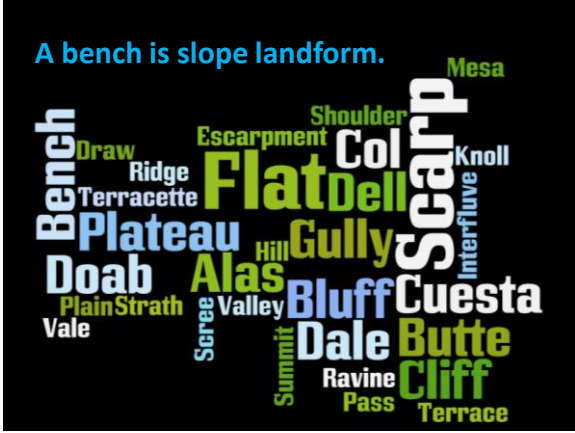


Benches

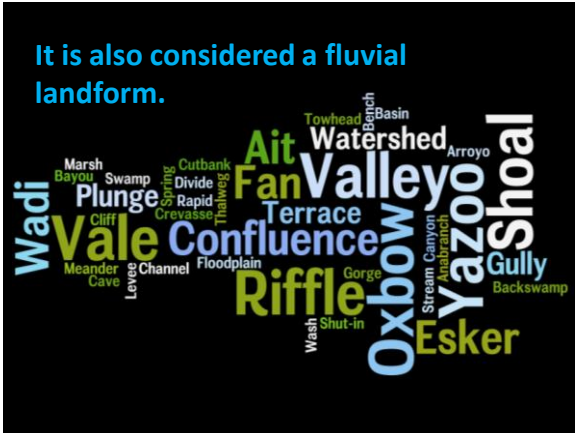
Benches

A bench is a long, narrow strip of relatively level land bounded by distinctly steeper slopes above and below it.

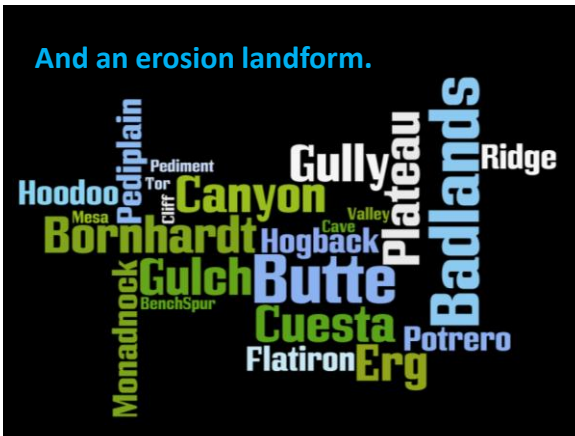
A bench is slope landform.



It is also considered a fluvial landform.



And an erosion landform.



A bench is a long, narrow strip of relatively level land bounded by distinctly steeper slopes above and below it.

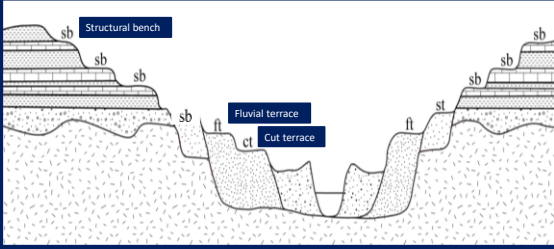
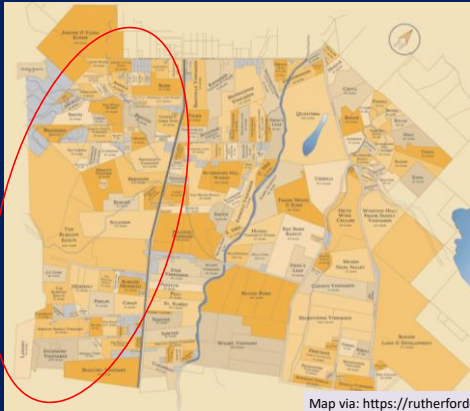


Image by Cristellaria, via Wikimedia Commons



Map via: <https://rutherforddust.org>

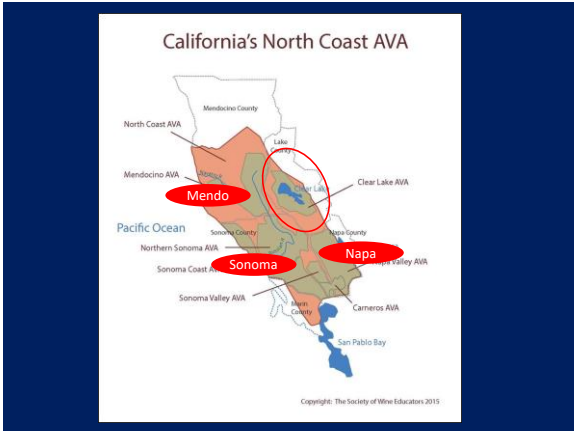
Kelsey Bench – Lake County AVA

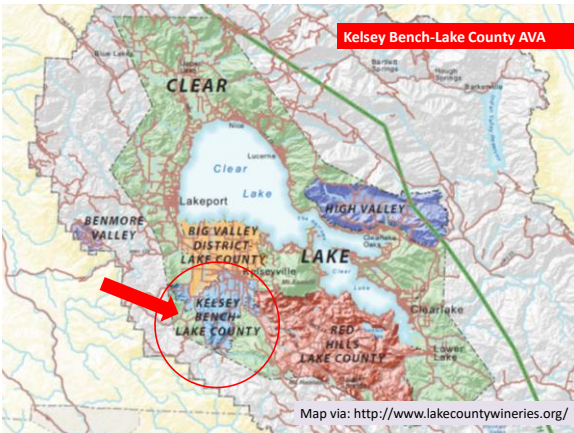
Short Hills Bench – VQA Ontario

Twenty-Mile Bench – VQA Ontario

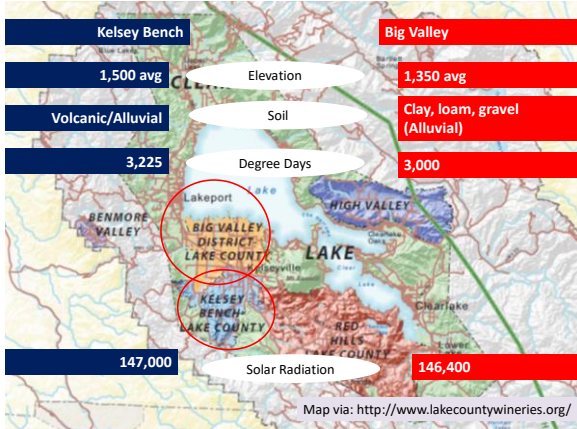
St. David's Bench – VQA Ontario

Beamsville Bench – VQA Ontario











References/for further information

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- High Plains Winegrowers: <http://highplainswinegrowers.org/>
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