

Pangaea (The Super Continent) Map



About 200 million years ago Pangaea broke into two new continents Laurasia and Gondwanaland. Laurasia was made of the present day continents of North America (Greenland), Europe, and Asia.

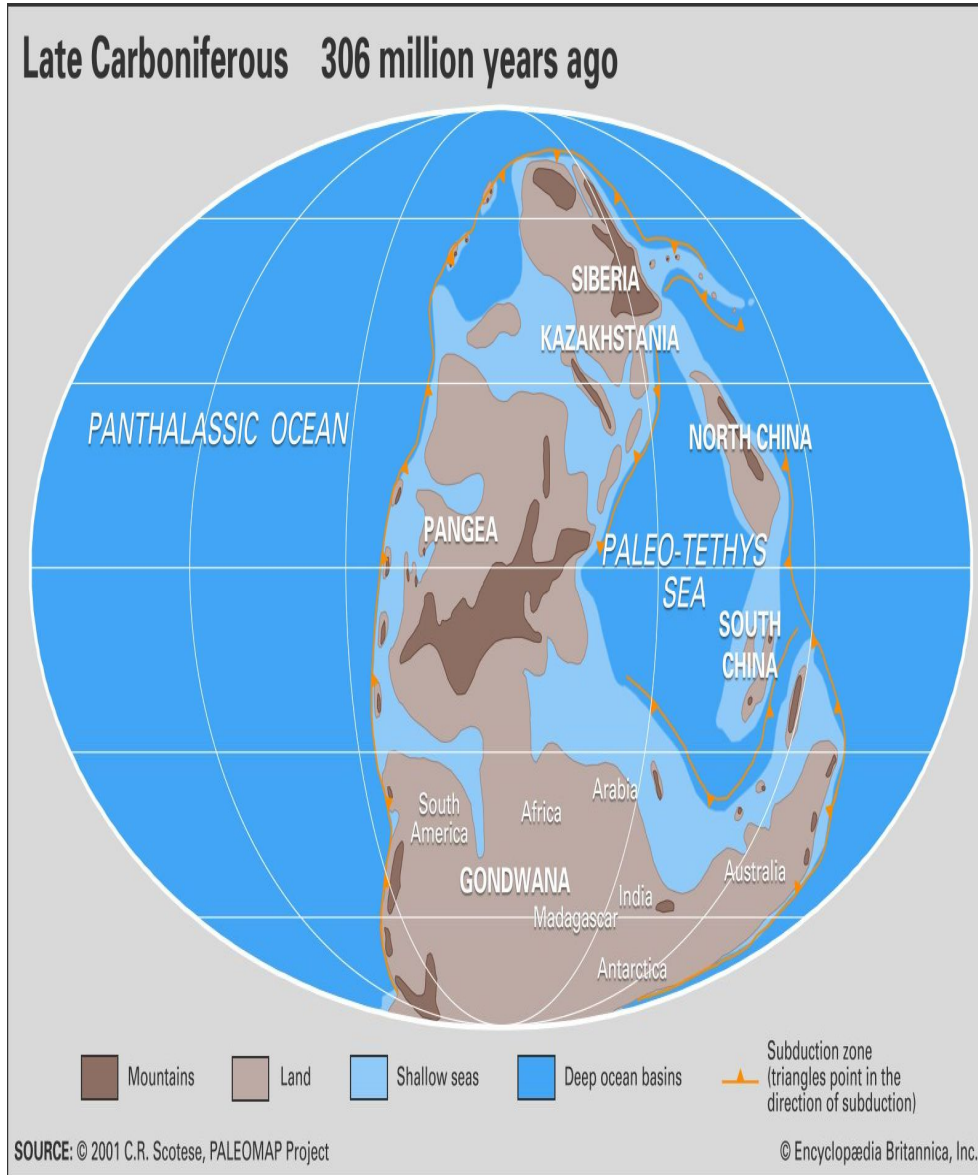
Pan·gae·a

1. A supercontinent comprising all the continental crust of the earth, postulated (Assumed) to have existed in late Paleozoic and Mesozoic times before it broke into Gondwana and Laurasia.
2. **Pangea**, in early [geologic time](#), a [supercontinent](#) that incorporated almost all the landmasses on [Earth](#). Pangea was surrounded by a global [ocean](#) called Panthalassa, and it was fully assembled by the Early [Permian Epoch](#) (some 299 million to about 273 million years ago). The supercontinent began to break apart about 200 million years ago, during the Early [Jurassic Epoch](#) (201 million to 174 million years ago), eventually forming the modern [continents](#) and the [Atlantic](#) and [Indian](#) oceans. Pangea's existence was first proposed in 1912 by German meteorologist [Alfred Wegener](#) as a part of his theory of [continental drift](#). Its name is [derived](#) from the Greek *pangaia*, meaning “all the Earth.”

3. Formation

4. The assembly of Pangea's component landmasses was well underway by the [Devonian Period](#) (419.2 million to 358.9 million years ago) as the paleocontinents Laurentia (a landmass made up of the North American [craton](#)—that is, the [continent's](#) stable interior portion) and Baltica (a landmass made up of the Eastern European craton) joined with several smaller microcontinents to form Euramerica. By the beginning of the Permian Period (298.9 million to 252.2 million years ago), the northwestern coastline of the ancient continent [Gondwana](#) (a paleocontinent that would eventually fragment to become [South America](#), [India](#), [Africa](#), [Australia](#), and [Antarctica](#)) collided with and joined the southern part of Euramerica (a paleocontinent made up of [North America](#) and southern [Europe](#)). With the fusion of the Angaran [craton](#) of [Siberia](#) to that combined landmass during the middle of the Early Permian, the assembly of Pangea was complete.

5. Geography

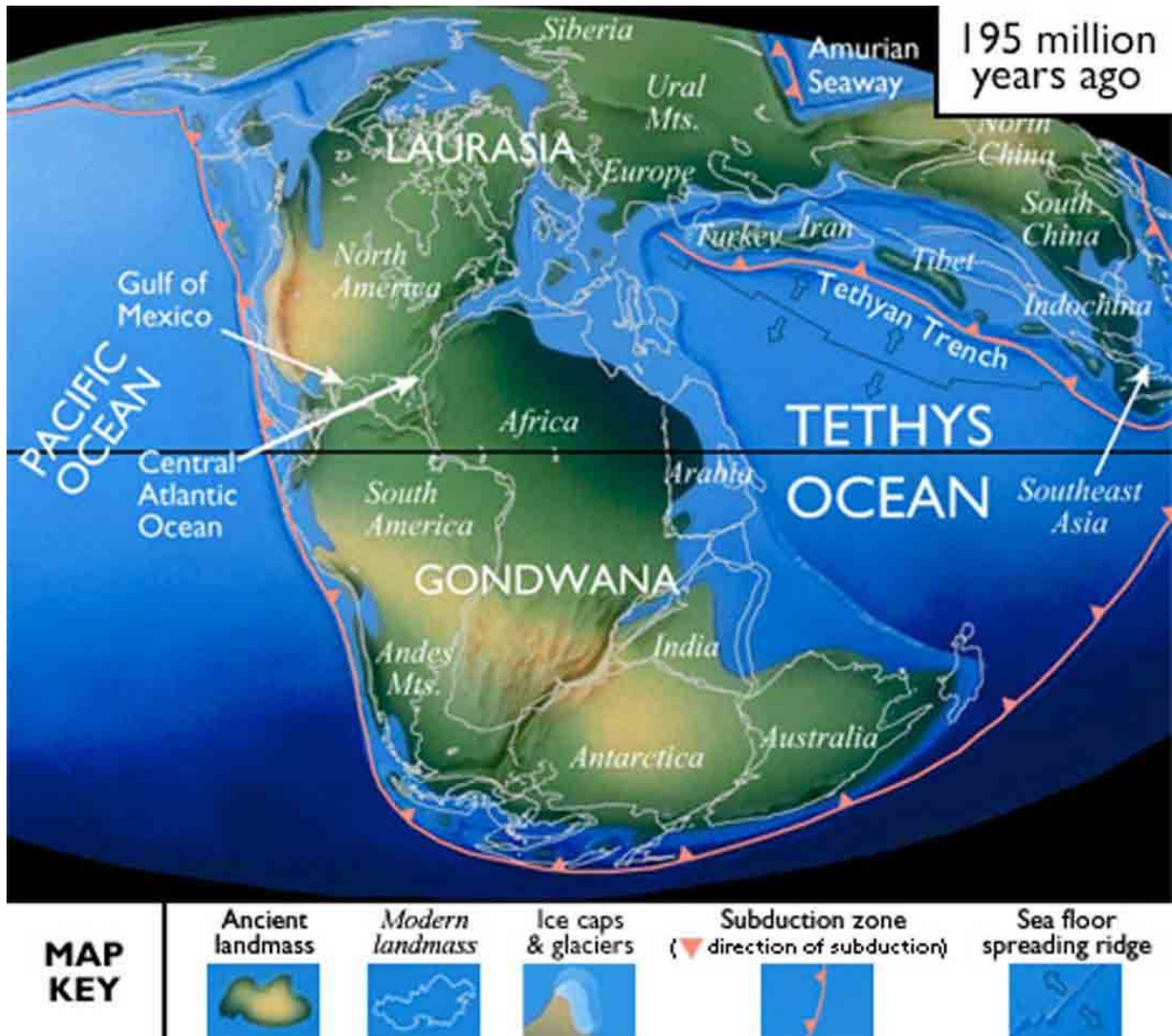


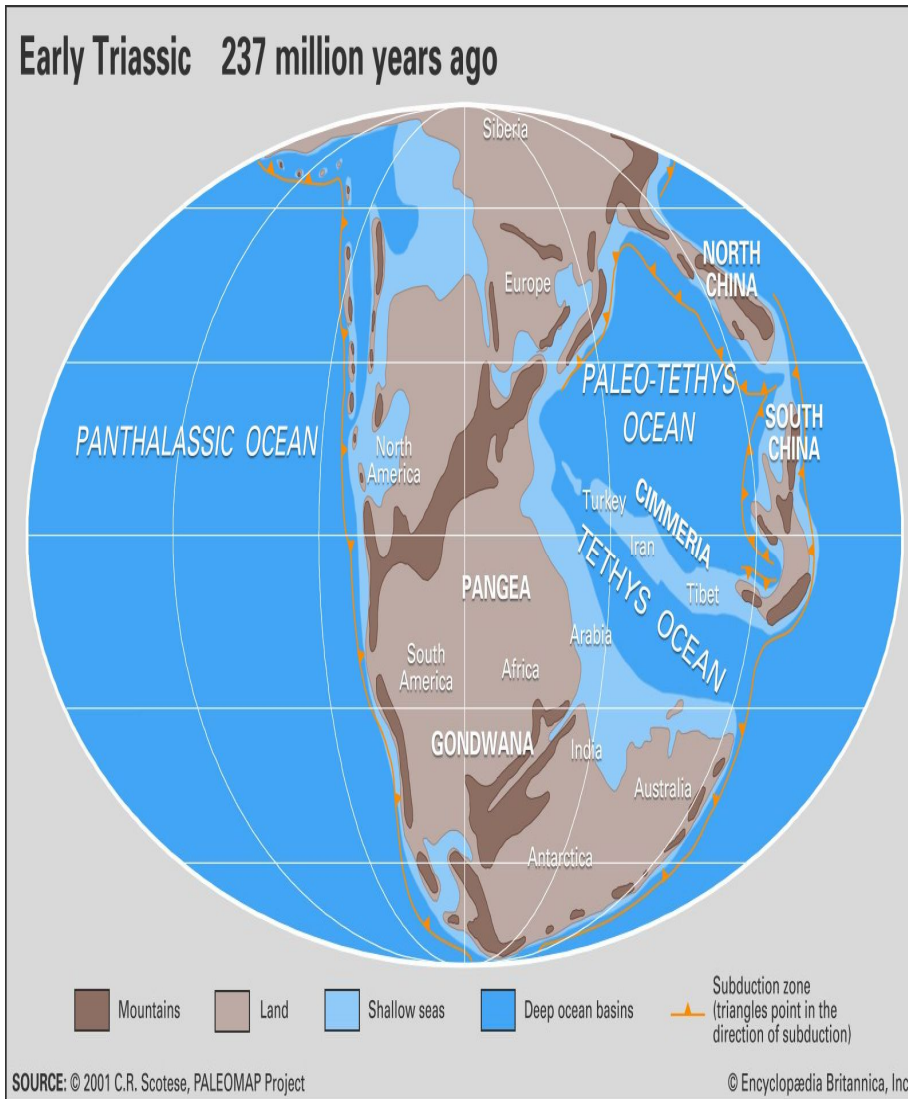
6.

7. [Carboniferous paleogeography](#)

8. Distribution of landmasses, mountainous regions, shallow seas, and deep ocean basins during the late Carboniferous Period. Included in the paleogeographic reconstruction are the locations of the interval's subduction zones.
9. Pangea was C-shaped, with the bulk of its mass stretching between Earth's northern and southern polar regions. The curve of the eastern edge of the supercontinent contained an embayment called the [Tethys Sea](#), or Tethys Ocean. The Paleo-Tethys Ocean took shape during Pangea's initial assembly phase. This ocean was slowly replaced by the Neo-

Tethys Ocean after a strip of continental material known as the Cimmerian continent, or the Cimmerian superterrane, detached from northern Gondwana and rotated northward.



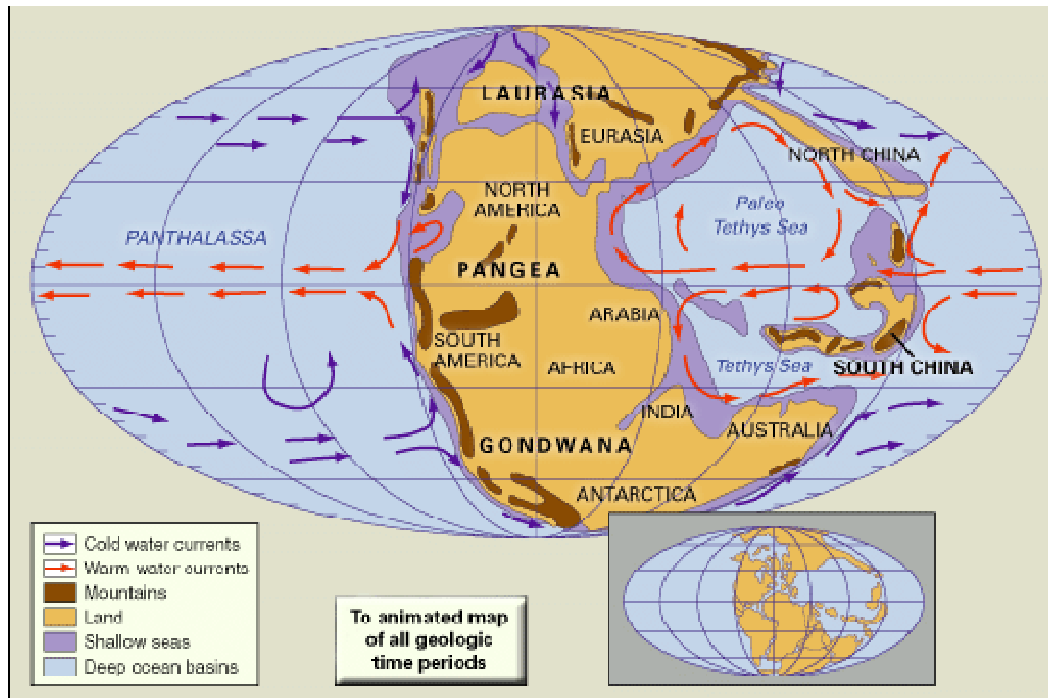


10.

11. [Triassic paleogeography](#)

12. Distribution of landmasses, mountainous regions, shallow seas, and deep ocean basins during the early Triassic Period. Included in the paleogeographic reconstruction are the locations of the interval's subduction zones.
13. On the [periphery](#) of Pangea was Cathaysia, a smaller continent extending beyond the eastern edge of Angara and [comprising](#) the landmasses of both North and South China. Cathaysia lay within the western Panthalassic Ocean and at the eastern end of the Paleo-Tethys Ocean. Both oceans also contained scattered fragments of [continental crust](#) (microcontinents), [basaltic](#) volcanic [island arcs](#), [oceanic plateaus](#), and [trenches](#).

These island arcs and other isolated landmasses were later welded onto the margins of Pangea, forming accreted terranes (landmasses that collide with continents).



14.

15. [Pangea: Early Triassic Period](#)

16. Paleogeography and paleoceanography of Early Triassic time. The present-day coastlines and tectonic boundaries of the configured continents are shown in the inset at the lower right.
17. The assembly of the various large landmasses into the supercontinent led to the development of extensive dry [climates](#) in the supercontinent's tropics during Permian times. As low-latitude seaways closed, warm surface [ocean currents](#) were deflected into much higher [latitudes](#) (areas closer to the poles), and cool-water upwelling developed along Pangea's west coast. [Extensive](#) mountain-building events (or [orogenies](#)) occurred where the continents collided with one another, and the newly created high [mountain](#) ranges strongly influenced local and regional terrestrial climates.

East-west atmospheric flow in the temperate and higher latitudes was disrupted by two high mountain chains—one in the tropics oriented east-west and one running north-south—that diverted warm marine [air](#) into higher latitudes.



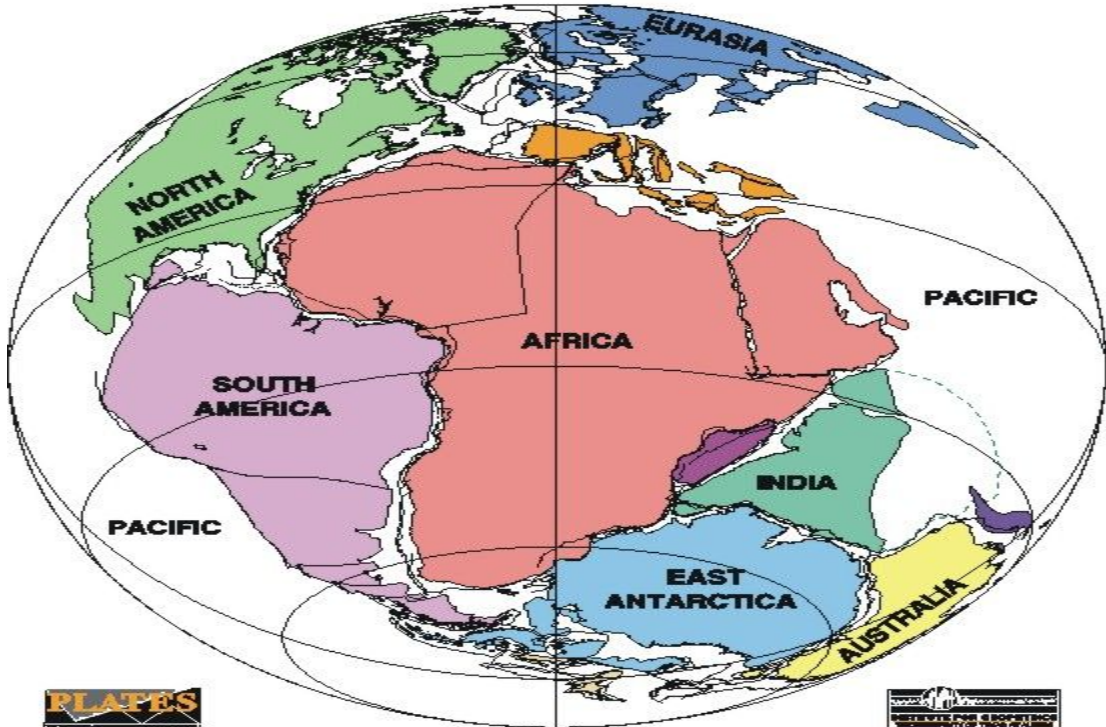
BEFORE



AFTER



PANGAEA



What are the 7 continents?

- Most English-speaking countries recognize seven regions as continents. In order from largest to smallest in area, these seven regions are **Asia**, **Africa**, **North America**, **South America**, **Antarctica**, **Europe**, and **Australia**.





Africa Continent is splitting (Curtesy of signsofthelastdays.org)

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New Ocean is forming as Africa splits



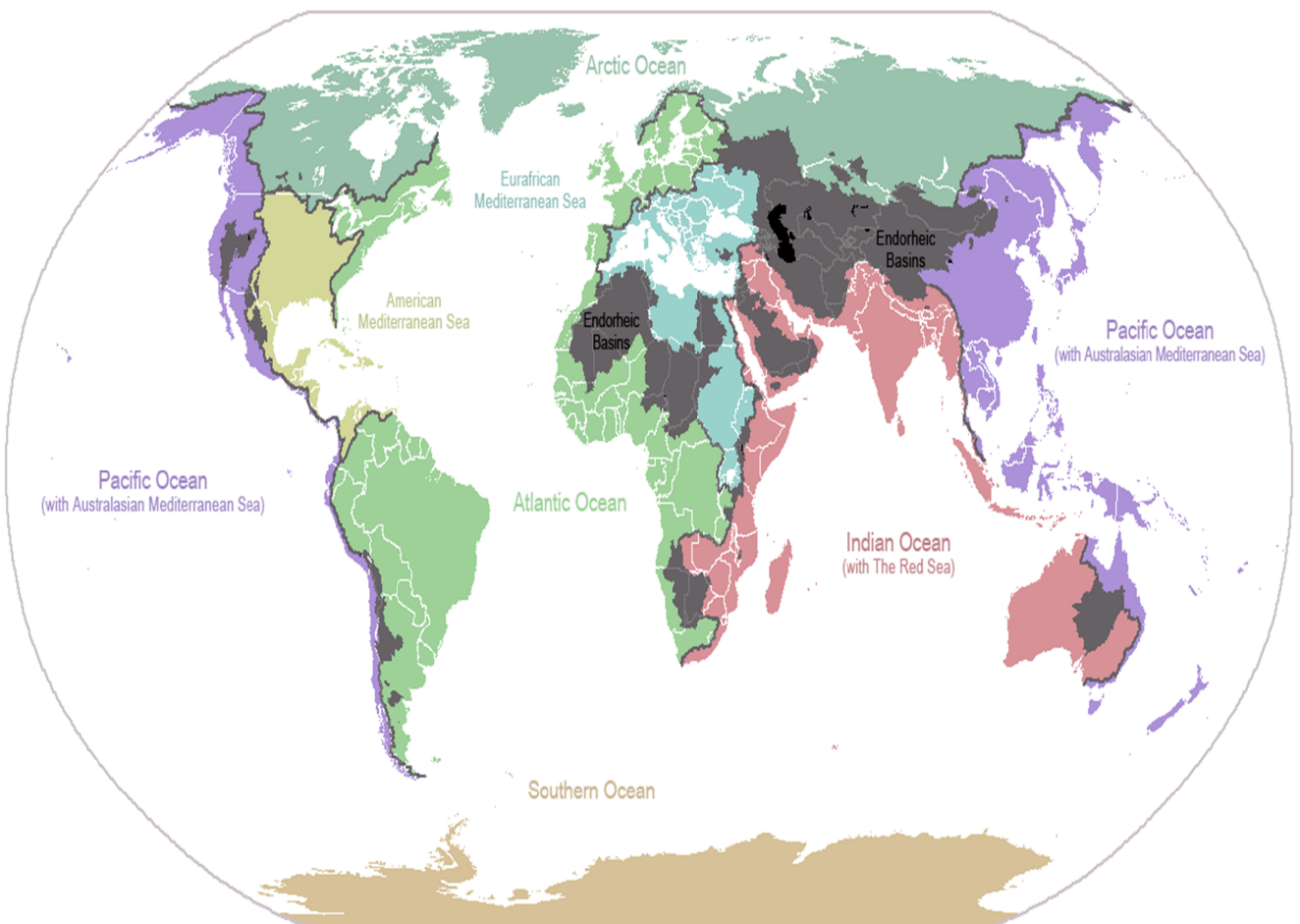


A continental divide is a **drainage divide** on a continent such that the drainage basin on one side of the divide feeds into one ocean or sea, and the basin on the other side either feeds into a different ocean or sea, or else is endorheic, not connected to the open sea.

Continental divide

From Wikipedia, the free encyclopedia

This article is about hydrological continental divides in general. For geophysical or geopolitical boundaries, see [Boundaries between the continents](#). For other uses, see [Continental divide \(disambiguation\)](#).



Major continental divides, showing drainage into the major oceans and seas of the world. Grey areas are [endorheic basins](#) that do not drain to the ocean.

A **continental divide** is a [drainage divide](#) on a [continent](#) such that the [drainage basin](#) on one side of the divide feeds into one [ocean](#) or [sea](#), and the basin on the other side either feeds into a different ocean or sea, or else is [endorheic](#), not

connected to the open sea. Every continent on earth except Antarctica (which has no known significant, definable free-flowing surface rivers) has at least one continental drainage divide; islands, even small ones like [Killiniq Island](#) on the [Labrador Sea](#) in Canada, may also host part of a continental divide or have their own island-spanning divide. The endpoints of a continental divide may be coastlines of gulfs, seas or oceans, the boundary of an endorheic basin, or another continental divide. One case, the [Great Basin Divide](#), is a closed loop around an [endorheic basin](#). The endpoints where a continental divide meets the coast are not always definite since the exact border between adjacent bodies of water is usually not clearly defined. The [International Hydrographic Organization's](#) publication *Limits of Oceans and Seas* defines exact boundaries of oceans, but it is not universally recognized. Where a continental divide meets an endorheic basin, such as the [Great Divide Basin](#) of [Wyoming](#), the continental divide splits and encircles the basin. Where two divides intersect, they form a [triple divide](#), or a tripoint, a junction where three watersheds meet.

Whether a divide is considered a continental divide distinguished from other secondary drainage divides may depend on whether the associated gulfs, seas, or oceans are considered separate. For example, the Gulf of Mexico is considered separate from the Atlantic Ocean, so the Eastern Continental Divide separates their respective watersheds. But the [Sea of Cortez](#) is usually not considered separate from the Pacific Ocean, so the divide between the Colorado River watershed, which drains to the Sea of Cortez, and the Columbia River watershed, which drains to the Pacific Ocean, is not considered to be a continental divide.

Together, continental divides demarcate a set of drainage basins or watersheds, each of which drains to a specific ocean, sea or gulf, such as the North American Atlantic seaboard watershed which is demarcated by the Eastern Continental Divide and Great Lakes-St. Lawrence Divide.

Divides by continent

Note: A 'continent' for the purpose of water divides may not correspond to a geopolitical or geophysical continent.

Africa

In [Africa](#), the most significant continental divide is the [Congo-Nile Divide](#) between the watersheds of the [Nile](#) and the [Congo](#), passing through the area of the [African Great Lakes](#). Between the Congo and the [Sahara](#), a vast area drains into the

endorheic [Lake Chad](#), puncturing the [Atlantic–Mediterranean](#) divide. The Mediterranean–[Indian Ocean](#) divide is punctured in [East Africa](#) by the endorheic lake systems of the [East African Rift](#); in the south of the continent the divide between the Atlantic and Indian Oceans snakes between the watersheds of the Congo, [Zambezi](#), [Limpopo](#), and [Orange Rivers](#), with the [Okavango](#) terminating in the [Kalahari Desert](#).

[Antarctica](#)

[Antarctica](#) is not generally considered to have a continental divide. The interior of [Antarctica](#) receives very little precipitation, and that in the form of [snow](#), and the continent is surrounded by the [Southern Ocean](#). The [Transantarctic Mountains](#) divide the [ice streams](#) draining [West Antarctica](#) into the [Ronne Ice Shelf](#), toward the [Pacific Ocean](#) and into the [Ross Ice Shelf](#), from those draining [East Antarctica](#) toward the Atlantic and Indian Oceans.

[Australia](#)

In [Australia](#), the [Great Dividing Range](#), or Great Divide, largely separates those rivers flowing to the eastern seaboard and the Pacific Ocean from those flowing westward to the [Murray–Darling Basin](#) and to the [Southern Ocean](#) or to the Gulf of Carpentaria or to the Lake Eyre Basin. Two significant continental drainage divide tripoints are found along the Great Divide. Kennedy Junction^[1] marks the hydrological apex of waters running to the Pacific Ocean, via the Fitzroy Basin, the Southern Ocean, via the Murray Darling Basin and the Lake Eyre Basin. Just a little to the north Mitchell Junction marks the hydrological apex of waters running to the Indian Ocean (via the Gulf of Carpentaria and [Indonesian Throughflow](#)), the Pacific ocean via the Burdekin Basin and the Lake Eyre Basin. Many of the continents interior rivers drain into the [endorheic Lake Eyre Basin](#), which during previous Ice Ages was a much larger sea.

[Eurasia](#)

[Eurasia](#) has various divides, depending on the definition of "ocean" (for example, the [Mediterranean Sea](#) and its various [lobes](#), the [Atlantic Ocean](#), the [Arctic Ocean](#), the [Baltic Sea](#), the [Black Sea](#), and the [North Sea](#)). Examples include:

- [Asia](#)
 - [Himachal Pradesh](#) (Sutlej–Indus): [Arabian Sea](#)
 - [Lake Baikal](#) (Yenisei–Lena): [Kara Sea](#), [Laptev Sea](#)
 - [Perm Krai/Urals](#) (Volga–Pechora/Ob): [Caspian Sea](#), [Arctic Sea](#)

- [Tibetan Plateau \(Himalayas\)](#): [Indian Ocean](#), [Pacific Ocean](#)
- [Uttarakhand](#) (Yamuna–Ganges): [Bay of Bengal](#)
- [Europe](#)
 - The [European watershed](#) with the triple divide of North Sea ([Rhine](#)), Black Sea ([Danube](#)) and Mediterranean [Adriatic Sea \(Po\)](#) at [Lunghin Pass](#) in the [Central Eastern Alps](#).
- Europe-Asia
 - Don-Volga: [Black Sea](#), [Caspian Sea](#)

British Isles

- [Scottish watershed](#)^[2]

North America

See also: [Watersheds of North America](#)



Principal [hydrological divides](#) of [North America](#).

- The [Arctic Divide](#) or Northern Divide in northern and western Canada, separates the Arctic Ocean watershed from the [Hudson Bay](#) watershed. The Arctic Divide runs from [Snow Dome Mountain](#), on the edge of the [Columbia Icefield](#) in [Jasper National Park](#) on the eastern border of British Columbia, northeasterly across Alberta, Saskatchewan, the Northwest Territories and [Nunavut](#) to northern [Baffin Island](#) then runs southeast along the spine of the island to the tip of [Meta Incoqnita Peninsula](#).^[3] The hamlet of [Kimmirut](#) to the northwest on [Hudson Strait](#) is the nearest inhabited place. This divide was a barrier to transportation until the [Methye Portage](#) in northwestern Saskatchewan was discovered in 1778, which opened up the Arctic rivers to the [fur traders](#) and became part of a transcontinental trade route from Atlantic to Pacific. It was of significance in Canadian history because it marked the northern boundary of [Rupert's Land](#), the trading [monopoly](#) area of the [Hudson's Bay Company](#).^[4]

- The [Continental Divide of the Americas](#), also called the Great Divide, and, especially in Alaska, the Pacific-Arctic Divide, separates the watersheds of the [Pacific Ocean](#) from those of the [Atlantic](#) and [Arctic Oceans](#). It runs from the western tip of the [Seward Peninsula](#) in [Alaska](#), through western [Canada](#) along the crest of the [Rocky Mountains](#), including through [Glacier National Park](#), [Yellowstone National Park](#), and [Rocky Mountain National Park](#), to [New Mexico](#). From there, it follows the crest of [Mexico's Sierra Madre Occidental](#) and extends to the tip of [South America](#). It is crossed by the [Panama Canal](#) at [Gatun Lake](#), by the two outlets of [Isa Lake](#) in Yellowstone National Park, and by the Two Ocean Creeks at [Parting of the Waters](#).
- The [Eastern Continental Divide](#) in eastern United States separates the [Gulf of Mexico](#) watershed from the [Atlantic Seaboard](#) watershed. It runs from near the middle of the northern border of [Pennsylvania](#) southwesterly along the [Appalachian Mountains](#) to the city of [Atlanta, Georgia](#), then southeasterly through the Georgia plateau and swampy lowlands of [Florida](#) to the [Lake Okeechobee](#) drainage basin in central Florida.
- The [Great Basin Divide](#) in the western United States is a closed circuit that separates the [Great Basin](#) watershed from the Pacific Ocean watershed. The region is bounded by the Wasatch Mountains to the east, the Sierra Nevada and Cascade Ranges to the west, and the Snake River Basin to the north. In the south, the divide extends to the boundary of the [Laguna Salada](#) watershed in the [Sonoran Desert](#) of the [Baja Peninsula](#).
- The [Laurentian Divide](#) separates the watershed of the [Atlantic Ocean](#) from that of [Hudson Bay](#). The western part of it from Glacier National Park in the Rocky Mountains to the Great Lakes watershed marked the northern boundary of the [Louisiana Purchase](#) and was the border between the United States and [British North America](#) until it was superseded by the [49th parallel](#) in the [treaty of 1818](#). In Canada, it historically marked the southern boundary of the fur trading monopoly area of the [Hudson's Bay Company](#), and the easternmost portion still marks part of the boundary between [Quebec](#) and [Labrador](#). The divide traverses very flat terrain, especially in North Dakota, causing many travelers to believe the sign marking the divide is a joke.^[5]
- The [Saint Lawrence River Divide](#) separates the Great Lakes-St. Lawrence Basin from the rest of the Atlantic Ocean watershed. Two [canals](#) cross the divide: the [Chicago Sanitary and Ship Canal](#) crosses the [Chicago Portage](#) and connects [Lake Michigan](#) to the [Mississippi River](#) watershed, and the [Erie Canal](#) connects [Lake Erie](#) to the [Hudson River](#) watershed. Historically there were additional canals, e.g., the [Ohio and Erie Canal](#), but most of these are no longer in operation.

If the Gulf of California or Sea of Cortez is considered to be separate from the Pacific Ocean, there is a divide which separates the Pacific Ocean basin from the basin which drains into that gulf/sea, i.e the Colorado River basin:

- The Colorado River Divide (not an official name) separates the Colorado River basin which drains to the Gulf of California from the Pacific Ocean basin. It runs between the Continental Divide and Great Basin Divide in Wyoming. It intersects the divides at the respective triple points [Three Waters Mountain](#) (Colorado, Columbia, Mississippi at 43°23'13" N, 109°46'58" W), and [Commissary Ridge](#) Triple Divide (Colorado, Columbia,

Great Basin at 42°35'18" N, 110°44'9" W. The divide is very short, running only about 90 miles.

South America

In [South America](#), the [Continental Divide of the Americas](#) lies along the [Andes](#). In [Central Chile](#) and nearby areas of Argentina the [Principal Cordillera](#) makes up the continental divide.^[6] This divide forms much of the [Argentina–Chile border](#).

In the [Miocene](#) the continental divide in the Principal Cordillera was about 20 km to the west of the modern water divide.^[7] Subsequent [river incision](#) shifted the divide to the east.^[7]

Compression and uplift in this part of the Andes has continued into the present.^[7]

From [Lácar Lake](#) and south there are numerous lakes on the eastern slopes that drain to the Pacific, crossing the line of highest peaks. These lakes in Patagonia are moraine-dammed streams, which used to drain to the Atlantic, rather than the Pacific, before the [Pleistocene glaciations](#).^[citation needed]

The Continent of Africa seen below is splitting causing a new ocean to form

