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Fast over short distances.

Door to door service.

The world's total motorable road length is about 15 million km, of which N.America accounts for 33%.

Highways: Metalled roads connecting distant places.

For unobstructed vehicular movement.

80 metre wide with separate traffic lanes, bridges and flyovers.

Highest density of highways is in N.America - 0.65 km/sq.km.

Railways:

Suitable for long distances.

Used for carrying large volumes of bulky material.

First public railway line was opened in 1825 between Stockton and Darlington

In northern England.

Pipeline:

Liquids like mineral oil, water are transported by pipelines.

New developments- ropeways and cableways.



CABLEWAYS

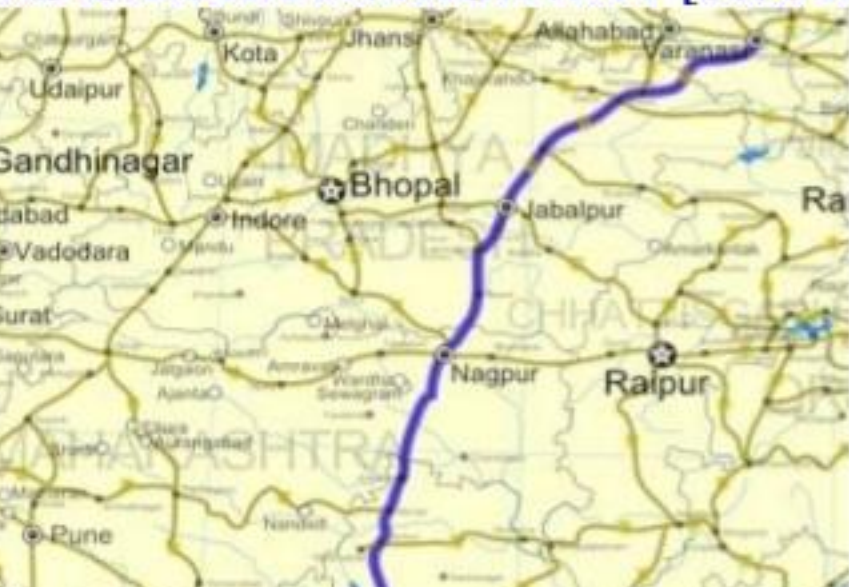


GAS PIPE LINE IN ALASKA

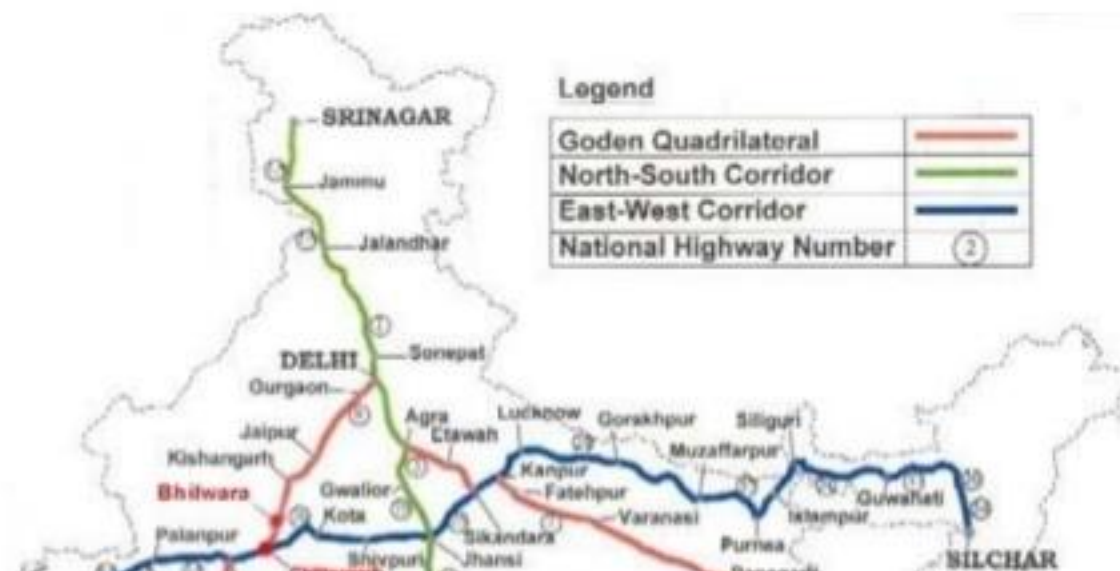
IMPORTANT HIGHWAYS:



TRANS-CANADIAN HIGHWAY [8030 KMS.]



PAN AMERICAN HIGHWAY [47958 KMS.]



Legend

Goden Quadrilateral	
North-South Corridor	
East-West Corridor	
National Highway Number	

Border roads: laid along international boundaries.

RAILWAYS:

The railways gauges vary in different countries and are classified as-

Broad gauge - > 1.5 metres.

Standard gauge - 1.44 metres.

Metre gauge - 1.0 metre.

Small gauge - < 1.0 metre.

EUROPE: 4, 40,000 km of railways

West Asia least developed in rail facilities because of vast deserts and sparsely populated regions.

AFRICA: 40,000 km of railways with 18,000kms alone in South Africa, due to concentration of gold, diamond and copper mining activities.

Important routes:

1. **Benguela railway**- Angola to Katanga- Zambia.
2. **Tanzania railway** - Zambian copper field to Dar-e- Salam.
3. **Botswana - Zimbabwe.**
4. **The blue train** from Cape Town to Pretoria.

TRANS – CONTINENTAL RAILWAYS.

TRANS-CANADIAN RAILWAY:

Joins Halifax with Vancouver [7075 km long, constructed in 1886]

ECONOMIC SIGNIFICANCE:

1. Connects the Quebec- Montréal industrial region with wheat belt of prairie region
And coniferous forest region in the north.
2. A loop line from Winnipeg to Thunder Bay connects this rail line with one of the
Important waterways of the world. Wheat and meat are exported through this route

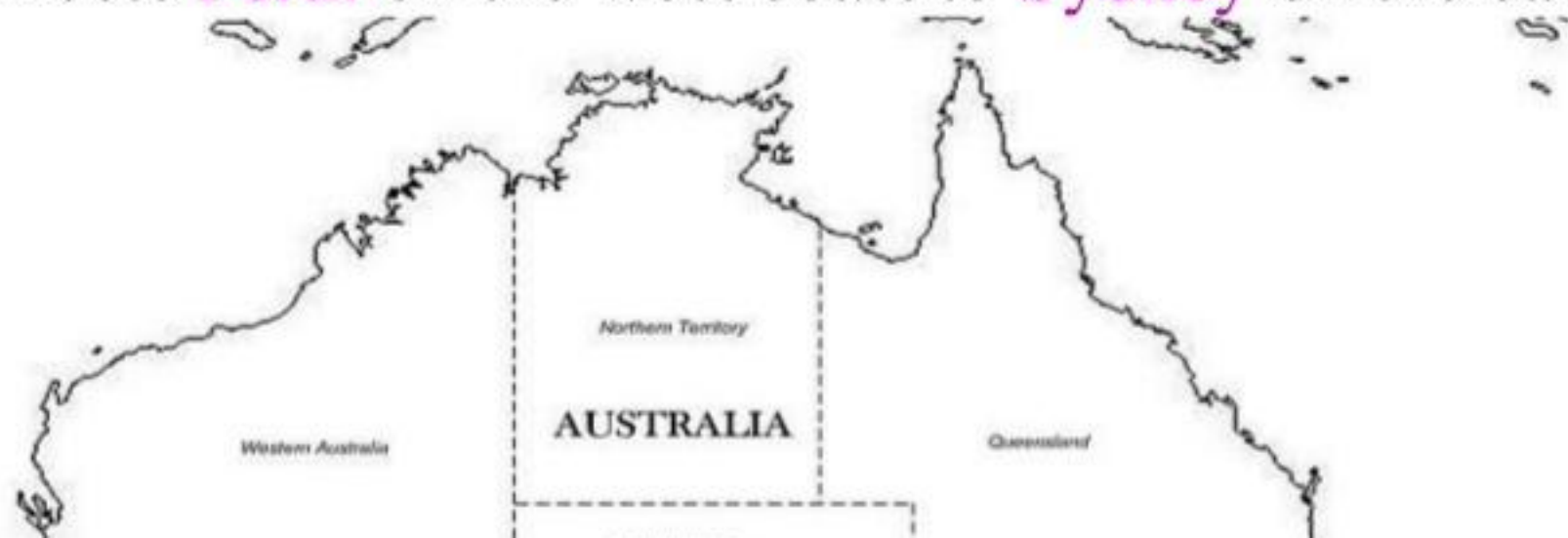


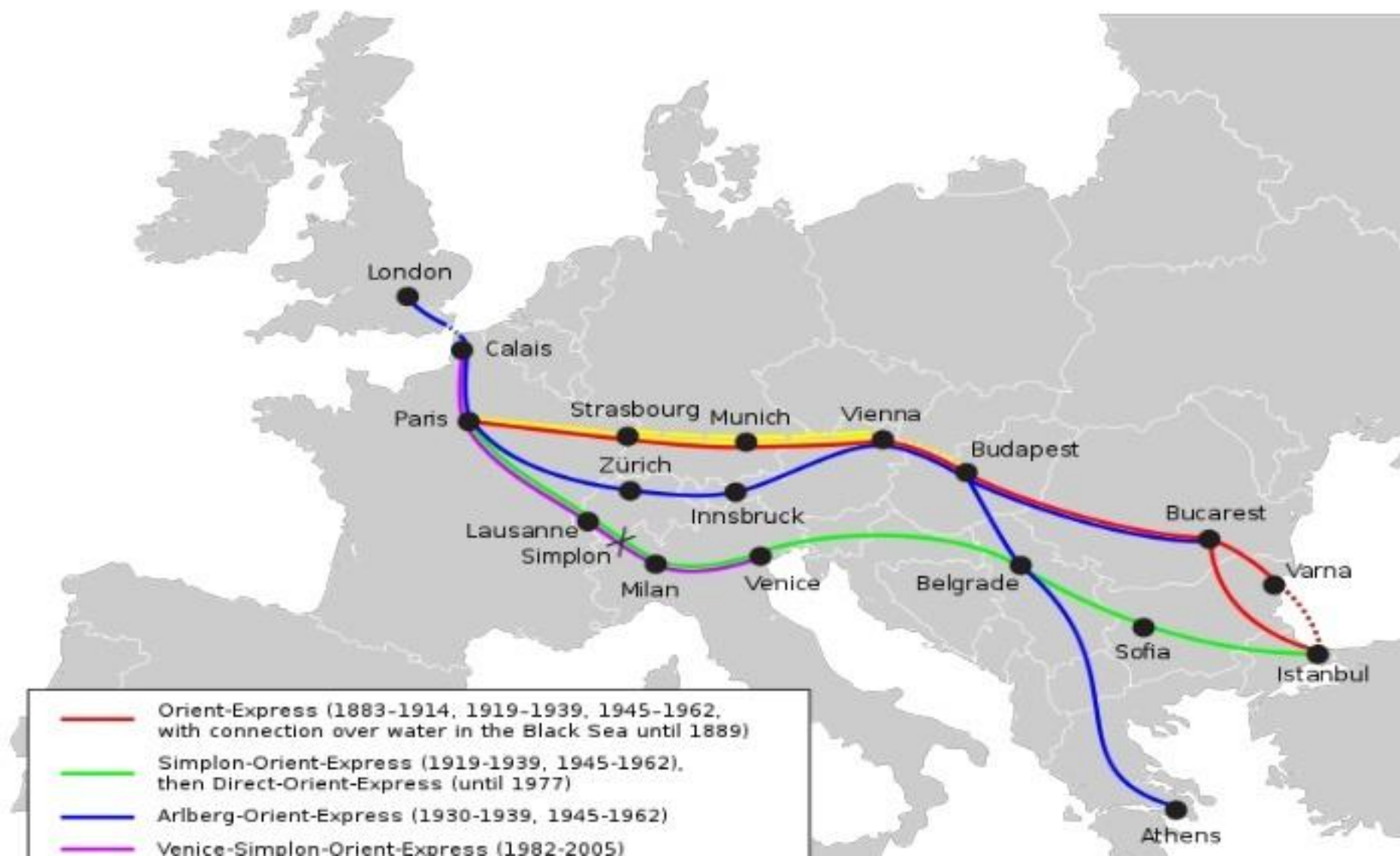
PACIFIC RAILWAY: connects **New York** [Atlantic coast] with **San Francisco** [pacific coast]

Valuable exports on this route are ores, grain, paper, chemicals.

TRANS-AUSTRALIAN RAILWAY:

Connects **Perth** on the west coast to **Sydney** on the east coast.





- Orient-Express (1883-1914, 1919-1939, 1945-1962, with connection over water in the Black Sea until 1889)
- Simplon-Orient-Express (1919-1939, 1945-1962), then Direct-Orient-Express (until 1977)
- Arlberg-Orient-Express (1930-1939, 1945-1962)
- Venice-Simplon-Orient-Express (1982-2005)

IMPORTANT OCEAN ROUTES:

THE NORTHERN ATLANTIC SEA ROUTE

It links north-eastern U.S.A. and north-western Europe, the two industrially developed Regions of the world.

$\frac{1}{4}$ of the world's foreign trade moves on this route.

It is the busiest route in the world and therefore called the **BIG TRUNK ROUTE**.

Important ports on this route are **Port Said, Aden, Mumbai, Colombo and Singapore**.



Due to the development of the rich natural resources such as gold, diamond, copper, tin, Groundnut, coffee.

THE CAPE OF GOOD HOPE SEA ROUTE

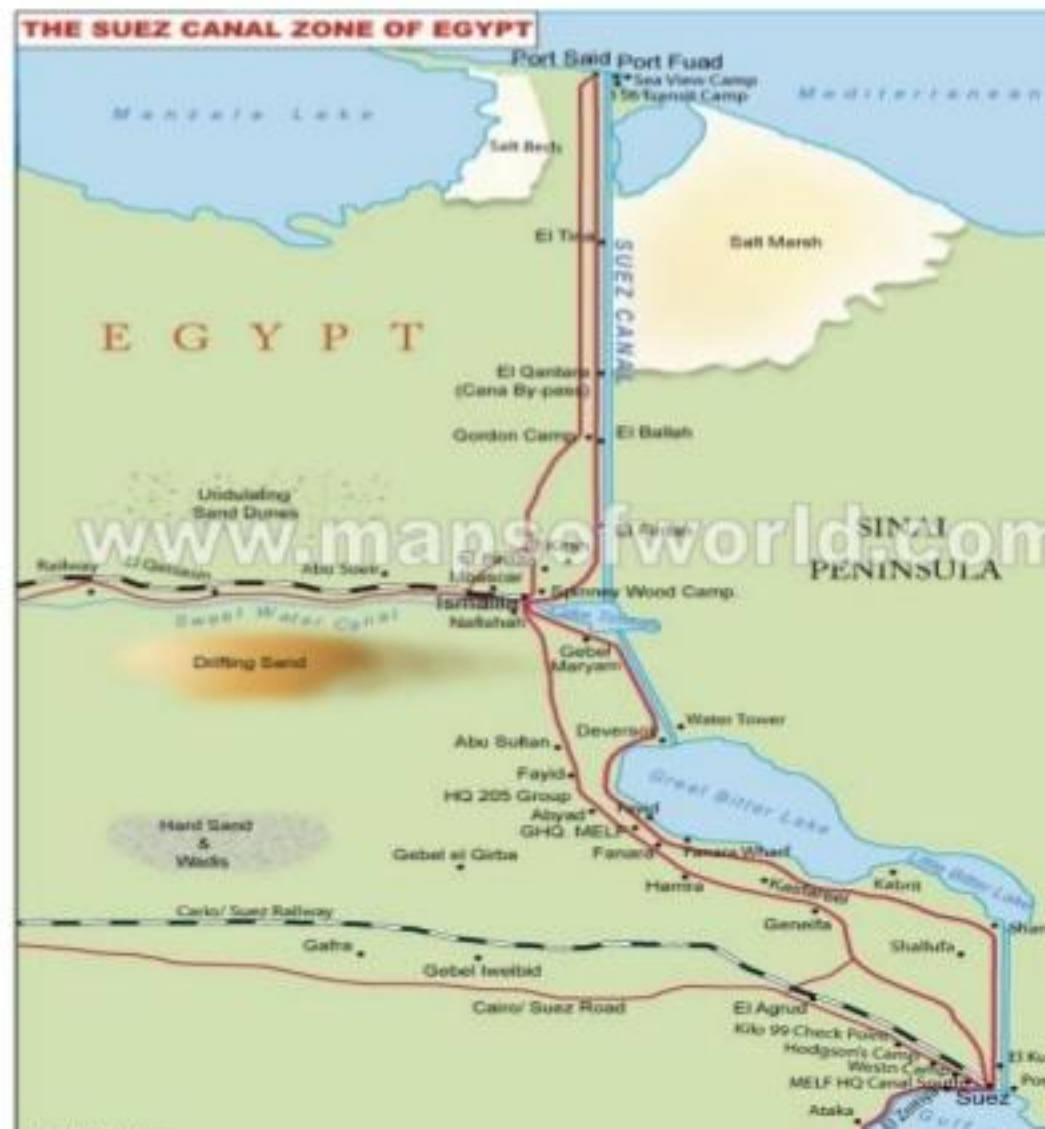
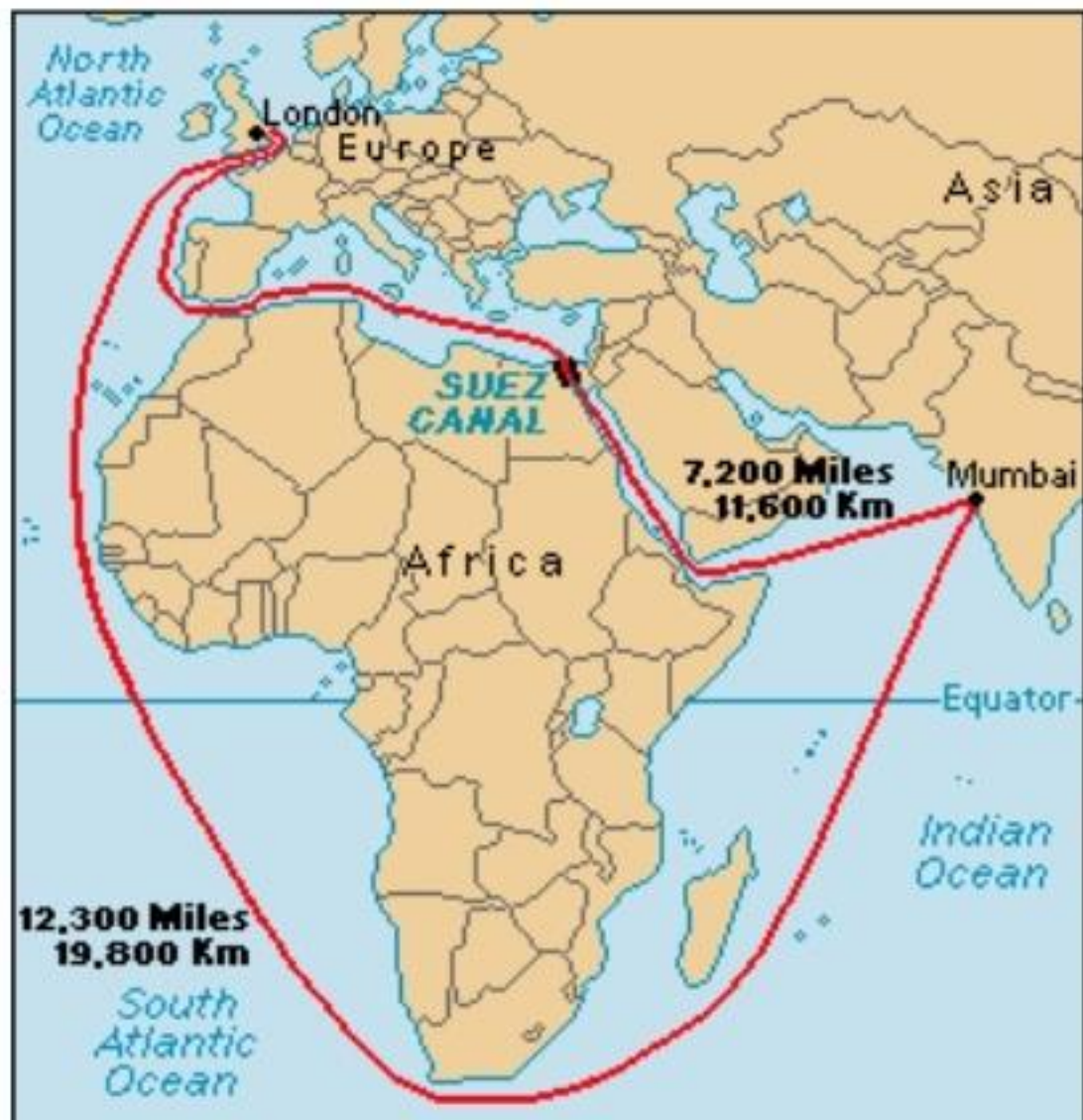
Connects west European and West African countries with Brazil, Argentina and Uruguay in South America.

The traffic is less on this route due to

- Limited development & population in S.America & Africa.
- Both s.america & Africa have similar products & resources.
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NORTH PACIFIC : links west coast of N.America[Vancouver, Seattle, Los Angeles] those of Asia[Yokohama, Kobe, Shanghai, Hongkong, Singapore]

SOUTH PACIFIC : It connects Western Europe and N. America with Australia





INLAND WATERWAYS

1. Inland Waterways



THE GREAT LAKES-ST.LAWRENCE:

VOLGA:

Provides a navigable waterway of 11200km and drains into the Caspian Sea

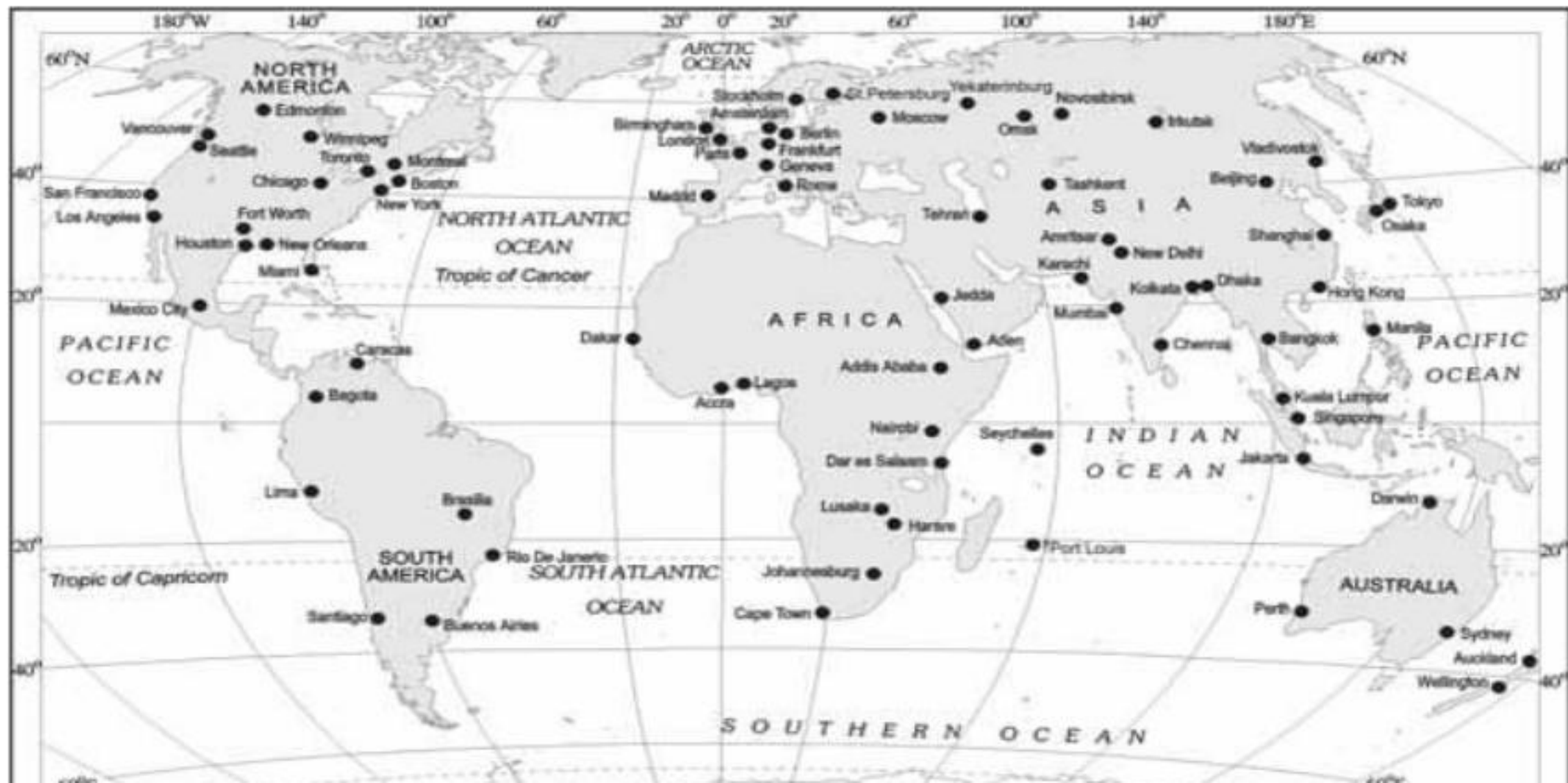
MISSISSIPPI WATERWAY:

Mississippi-Ohio waterway connects the interior part of U.S.A. with the Gulf of Mexico in the south.

DANUBE WATERWAY:

Important waterway that serves Eastern Europe
River Danube rises in the black forest and flows eastwards towards many countries.

AIRWAYS:



COMMUNICATIONS

Internet is the largest electronic network on the planet

Communication through satellites emerged as a new area in communication technology since the 1970's after USA and former USSR pioneered space research.

India has also made strides in satellite development

It has made long distance communication, television and radio very effective

CYBERSPACE-INTERNET

It is the electronic digital world for communicating or accessing information over computer networks without physical movement of the sender and the receiver. It is also known as internet.