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History of Cartography

The history of cartography is not older than 5,000 years. The earliest maps of which we have knowledge were made by the Babylonians on clay tablets, dating around 2300 BC (Fig. 1). Early attempts at maps were severely limited by lack of knowledge of anything other than very local features. Of course what constitutes a map is hard to say, especially when one goes back to the very earliest times. In around 6200 BC in Catal Hyük in Anatolia a wall painting was made depicting the positions of the streets and houses of the town together with surrounding features such as the volcano close to the town. Whether it is a map or a stylised painting is a matter of debate. Early world maps also reflect the religious beliefs of the form of the world.



Fig. 1: A clay tablet showing land holdings of Babylon

The earliest ancient Greek who is said to have constructed a map of the world is **Anaximander**, who was born in 610 BC in Miletus (now in Turkey) and died in 546 BC. Sadly, no details of his map have survived. Notable Greek philosophers and mathematicians such as Pythagoras, Aristotle, Eratosthenes and Hipparchus made notable contributions to the study of ancient cartography.

The final ancient Greek contribution to cartography, considered the most important, was written by a noted mathematician. In about AD 140 **Ptolemy** wrote his major work, *Guide to Geography*, in eight books, which attempted to map the known world

giving coordinates of the major places in terms of what are essentially latitude and longitude (Fig. 2). Given the way that he gathered the data it is not surprising that the maps were inaccurate but they did represent a considerable advance on all previous maps and it would be many

centuries before more accurate world maps would be drawn.

In 1569, **Gerardus Mercator** of Flanders, Belgium, the leading cartographer of the 16th century developed a map projection and drew a world map (Fig. 3). Mercator made many new maps and globes, but his greatest contribution to cartography was what is now known as the Mercator projection.



Fig. 2: Compilation of a world map by Gerardus Mercator

Since then, several leading cartographers from Europe and Asia developed cartographic techniques, giving a boost to map production and the invention of different scientific surveying techniques, instruments and projections. In addition to these developments, the broadening of knowledge with the introduction of new fields of studies such as astronomy, geology, meteorology, biology, and the social sciences gave rise to thematic cartography.

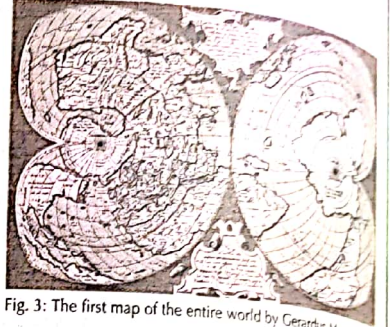


Fig. 3: The first map of the entire world by Gerardus Mercator

As the world advances, as the unknown is revealed and surveyed, as humans alter the face of the earth with their new settlements, new states, railways, canals, land reclamation and cultivation, these changes are reflected in the maps of the times.

The Age of Modern Cartography: Remote Sensing and GIS

In the 20th century, the invention of the airplane followed by satellite remote sensing technology added a new dimension to mapping and widened its scope through the method of remote sensing. This provided a bird's-eye view of the earth and saved time and money required for conventional surveying of ground realities.

In the broadest sense, remote sensing is the measurement or acquisition of information of an object or phenomenon, by a recording device that is not in physical or intimate contact with the object. It is the utilization at a distance (as from aircraft, spacecraft, satellite, or ship) of any device for gathering information about the environment. The technique can make use of devices such as a camera, laser, radar, sonar, seismograph or a gravimeter. Modern remote sensing normally includes digital processes but can be done as well with non-digital methods.



Fig. 4: An aerial photograph of islands and Atolls of Maldives

Aerial photography is the original form of remote sensing. An aerial photograph can be defined as a photograph taken from an aircraft with a camera specially designed for aircraft use (Fig. 4). The occurrence of the two world wars led to a demand for aerial photography for military purposes. In India, aerial photographs have been in use since 1920 for aerial surveys and for interpretation of specific fields such as topographical mapping, geology, engineering, environmental studies, and exploration of oil and minerals.

With the development of satellite technology between 1970 and 1980, remote sensing through satellites received more attention from researchers, cartographers and general users. An image taken from space using a spacecraft as the platform and scanners or specially designed cameras as sensors to detect the given area of the earth's surface is termed **satellite imagery** (Fig. 5).

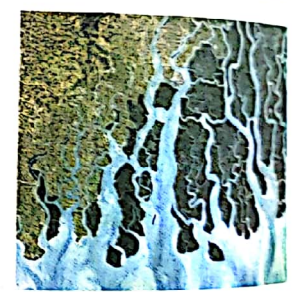


Fig. 5: A satellite image showing Ganges in India and Bangladesh

The remote sensor system makes use of the emitted or reflected electromagnetic radiation of the examined object and measures a larger area of the earth. Satellite imagery can be widely applied and is extensively used by scientists, researchers, and planners in map-making, urban and regional planning, agriculture, forestry, ecology and environmental soil survey, natural resource mapping, oil and mineral exploration, and so on.

In traditional cartography, the map represented both the database and the display of geographic information whereas in GIS (Geographical Information Systems), the database, analysis, and display are physically and conceptually separate aspects. Geographic information systems include several elements such as computer hardware, software, digital data, people, and institutions for collecting, storing, retrieving, analysing, and displaying georeferenced data or information about the Earth. Modern map-making relies much more on GIS which provides flexible computer-aided database and maps.

INTRODUCTION

Scale

A scale is essential for reading a map accurately. It is defined as the ratio between two points on the ground and their corresponding distance on a piece of paper (the map). A scale can be expressed as:

1. Representative Fraction (R.F.)

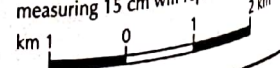
The units of measurement of distances are the same both on the ground and on paper. It is always expressed as a ratio, e.g. 1:100,000, where 1 cm on the map represents 100,000 cm or 1 inch = 100,000 inches.

2. Written statement

The system of measurement is clearly stated, e.g. 1 cm = 1 km or 1 inch = 1 mile.

3. Graphical method

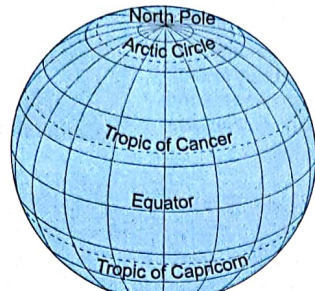
A diagram of a ruler is drawn to show the given scale, e.g. 1 cm = 1 km or 1:100,000. A segment of a ruler measuring 15 cm will represent 15 km.





Maps and Globes

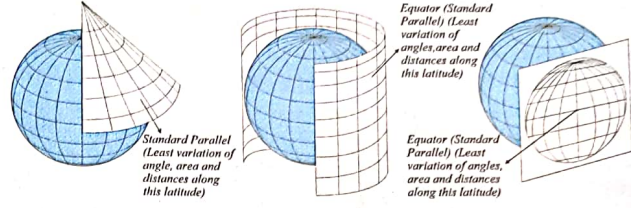
A map is a graphic representation of the round earth or the real world on a flat piece of paper. Maps show us what the earth would look like if we could see it from above. The main purpose of preparing a map is to show the things as they appear in their true location, in terms of latitudes and longitudes, either in isolation or in relation to some other feature. On the other hand, a globe represents the whole surface in the form of a sphere on which all its continents and features are shown at the same scale and with their correct shapes and areas.



Locating places

Map Projections

A map projection is a systematic and orderly drawing of a grid of parallels of latitude and meridians of longitude used to represent the spherical surface of the earth, or a part of it, on a reduced scale on a flat piece of paper. It is not possible to make a map (of the world or of any part of it) that is accurate in area, shape, distance and direction. Every map is distorted in at least one of these aspects.



Conical Projection

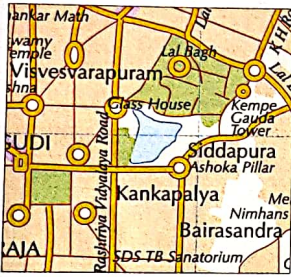
Cylindrical Projection

Azimuthal Projection

Types of Maps

On the basis of scale

Large scale maps



e.g. City maps

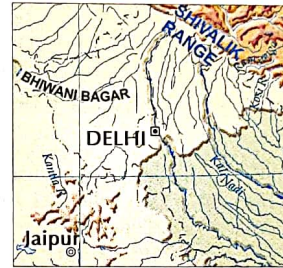
Small scale maps



e.g. Wall maps

On the basis of details in the map

General purpose maps



e.g. Physical maps

Thematic maps

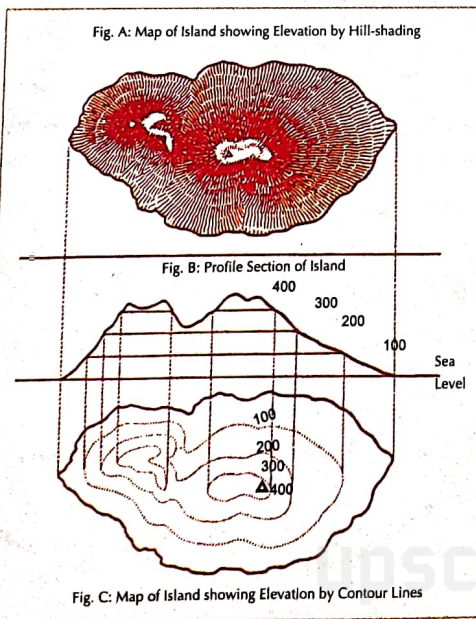


e.g. Climatic Regions

Physical Relief: Representation of the Earth's Surface

One of the challenges of map-making is to adequately represent the physical relief of any region i.e., the delineation of hills and plains, the distinguishing of high ground and low ground. The two methods generally used to represent physical relief are *hill-shading and contour lines*, each of which may be treated in a variety of ways and are sometimes combined.

Figure A shows a mountainous island with the hill slopes indicated by a method of hill-shading called 'hachures' (lines indicating the direction of the slope). Figure B shows the same island with the hills indicated by contour lines. The principle of showing elevation by contour lines can be seen by comparing Figure C with the profile section in Figure B.

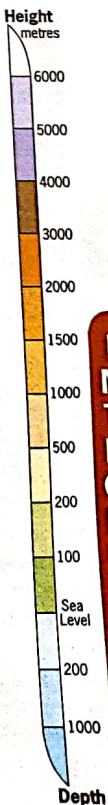


Symbols and Shades

Maps cannot show everything nor can the features of the landscape be contained in a limited area. Therefore, symbols, often termed as conventional symbols, have been developed to represent the features on a map. Some symbols are like pictures while others are initial letters such as 'PO' for post office. Colours are also used as symbols such as green for forests or woodlands and blue for water. Shades ranging from deepest to lightest can represent the range of occurrences of any phenomenon, such as altitude.

Conventional symbols can be found on a topographical sheet, a weather chart, or on physical or thematic maps. It is always important to refer to the key or legend of a map to find out what the symbols mean. Symbols are designed to be easy to remember.

- | | |
|-------------------------------------|----------------------|
| International Boundary | Salt pan / Dry lake |
| State Boundary | Marsh / Swamp |
| Golden Quadrilateral | Peak height |
| North-South & East-West Corridors | Depression |
| National Highway | Ocean depth / Trench |
| Railway | Oasis |
| Road | Dam |
| Country capital | River |
| State / UT capital | Canal |
| District Headquarters | Lake / Reservoir |
| Other towns | Rift valley |
| National Highway number | |
| International airport/Major airport | |
| Domestic airport | |
| Major port | |

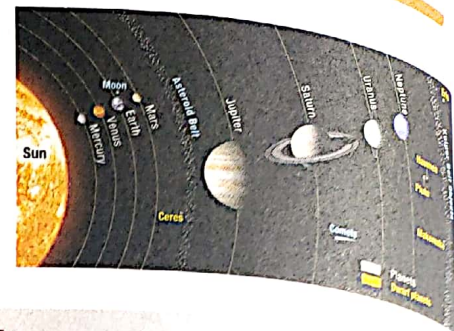




The Solar System

The solar system was formed about 4,600 million years ago. It is located in the Orion arm of the Milky Way galaxy, around two-thirds away from the central bulge, about 27,000 light-years from the centre of the galaxy. It takes the solar system about 220 million years to orbit the galaxy once.

The solar planets can be divided into an inner system of four small, solid planets made up of materials similar to that of the Earth. The outer system of four larger planets, known as the 'gas giants', has rings and lots of moons. The gas giants are made up mostly of hydrogen, helium, frozen water, ammonia, methane, and carbon monoxide. Pluto does not belong to any group but is a tiny rocky body at the edge of the solar system. Some people think it is a giant comet rather than a planet. Its composition is similar to a comet (ice and rock) but its orbit is different from the other comets and planets. Between these two planetary systems is a belt of asteroids containing pieces of rock of varying size.



Planet Profile

Planet	Mean distance from Sun (million km)	Orbital period	Diameter (km)	No. of known satellites
Mercury	57.9	88.0 days	4,879	0
Venus	108.2	224.7 days	12,104	0
Earth	149.6	365.25 days	12,756	1
Mars	227.9	687.0 days	6,792	2
Jupiter	778.6	11.86 years	142,984	69
Saturn	1433.5	29.44 years	120,536	61
Uranus	2872.5	83.80 years	51,118	27
Neptune	4495.1	163.83 years	49,528	14

Dwarf Planets and Plutoids

Pluto, which was considered to be a planet since its discovery in 1930, was reclassified as a 'dwarf planet' on 24 August 2006 by the International Astronomical Union.

According to the IAU, a dwarf planet fulfils the following criteria:

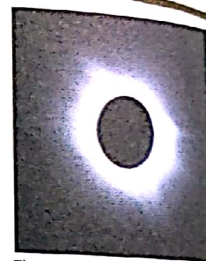
- It is in orbit around the Sun.
- It has sufficient mass for its self-gravity to overcome rigid body forces so that it assumes a hydrostatic equilibrium (nearly round) shape.
- It has not 'cleared the neighbourhood' around its orbit.
- It is not a satellite of a planet, or other non-stellar body.

Two years after coining the term 'dwarf planets', the IAU has decided to call trans-neptunian dwarf planets similar to Pluto, 'plutoids'. While all plutoids are dwarf planets, all dwarf planets are not plutoids. Currently, there are five celestial bodies that have been redefined by the IAU as dwarf planets, of which four belong to the subset plutoids. Eris, Pluto, and most recently, MakeMake and Haumea have been classified as plutoids and dwarf planets, while Ceres remains in the category dwarf planet.

Sun

The Sun is a giant ball of hot gas, 150 million kilometers from the Earth. The surface of this burning ball of gas is 5500°C, with the core reaching an unimaginable 15.6 million°C. The Sun is so large that you could fit over one million Earths inside it. The Sun's internal structure includes the core, radiation zone, convection zone, and photosphere.

The turbulence in the photosphere is visible from the earth in the form of sunspots, solar flares, prominences and small patches of gas called granules. The Sun consumes four million tonnes of hydrogen every second. Even so, it is so vast that our star has enough fuel to keep it shining for another five billion years.



The corona is the outermost part of the Sun's atmosphere, visible during a solar eclipse only.

Phases of the Moon

The moon seems to have different shapes at different times of the month because of its changing position in relation to the Earth. These different shapes are known as the phases of the Moon. The interval between one full Moon and the next is 29.5 days.



Tides

At new Moon and full Moon, when the Moon and the Sun are in line with the Earth, tides are at their highest and are called **spring tides**.

At quarter and three-quarter Moon, the Sun and Moon are at right angles, so that the gravitational pull of the Moon is partly cancelled out by the gravitational pull of the Sun, the tides are at their lowest and are called **neap tides**.

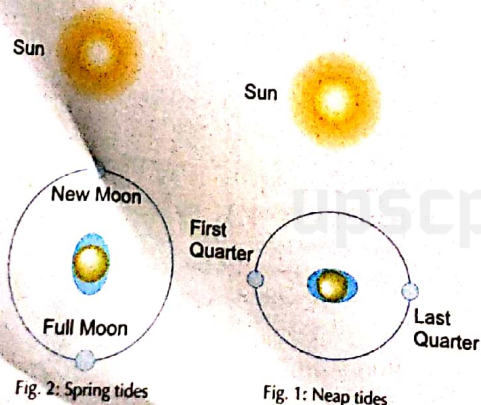
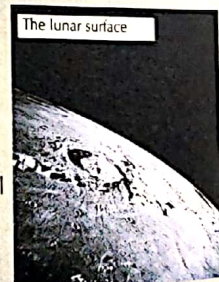


Fig. 2: Spring tides

Fig. 1: Neap tides

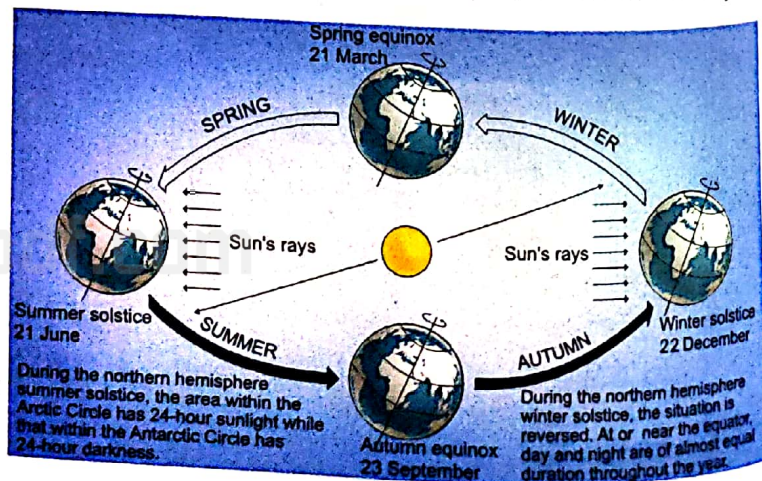
Facts about the Moon

- The only natural satellite of the planet Earth
- Distance from Earth- 384,400 km
- Diameter- 3,476 km
- Mass- 0.0123 of the Earth's
- Surface gravity- 0.165 of the Earth's
- Time taken to orbit Earth (interval between one full moon and the next) - 29.53 days or 709 hours
- Surface temperature- 120 °C maximum to -163 °C at night



The lunar surface

The Seasons, Equinoxes and Solstices (in the Northern Hemisphere)



During the northern hemisphere summer solstice, the area within the Arctic Circle has 24-hour sunlight while that within the Antarctic Circle has 24-hour darkness.

During the northern hemisphere winter solstice, the situation is reversed. At or near the equator, day and night are of almost equal duration throughout the year.

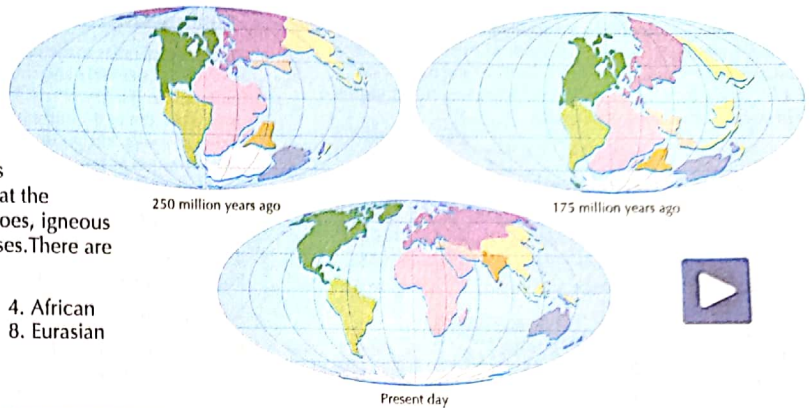
The Earth



Continental Drift

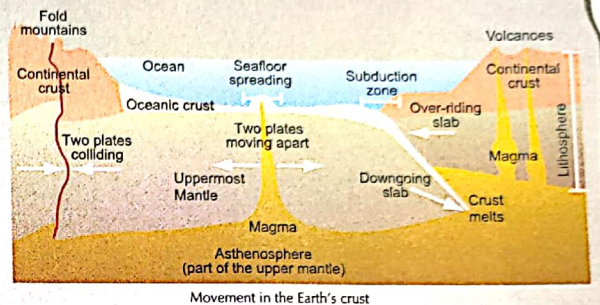
The Earth's crust is not a single continuous layer. It is made up of a number of gigantic pieces like a huge jigsaw puzzle. Each piece is called a crustal plate. Currents of molten rock rise up through the mantle like boiling water in a saucepan. These form convection cells that drive the movement of the plates so that they are continuously moving away or towards each other. Geologically, the most important things happen at the plate boundaries, including most of the earthquakes, volcanoes, igneous rocks, major metamorphism, and mountain building processes. There are 10 crustal plates:

- | | | | |
|-------------------|----------------|-------------------|-------------|
| 1. Pacific | 2. Antarctic | 3. Indian | 4. African |
| 5. South American | 6. Nazca | 7. North American | 8. Eurasian |
| 9. Cocos | 10. Australian | | |



The Giant Jigsaw Puzzle

Alfred Wegener (1880-1930), a German meteorologist and geologist, was the first person to propose the theory of continental drift. In his book, **Origin of Continents and Oceans**, he calculated that 200 million years ago the continents were originally joined together, forming a large supercontinent. He named this supercontinent Pangaea, meaning 'All-earth'. Pangaea split into plates to form Eurasia in the north and Gondwanaland in the south. Further splitting over millions of years formed the continents as we know them today. Wegener's concept was originally based on the apparent 'jigsaw' fit. The continents look as if they were pieces of a giant jigsaw puzzle that could fit together to make one giant super-continent. The bulge of Africa fits the shape of the coast of North America while Brazil fits along the coast of Africa beneath the bulge. There are three kinds of plate boundaries:



Divergent boundaries are where plates separate from each other, and magma oozes up from the mantle into the crack (a fissure volcano) making the ocean basin wider. This is known as sea floor spreading.

Convergent boundaries are where plates come together, but to do so one of the plates must dive below the surface into the mantle along a subduction zone. These often result in deep-sea trenches. Convergent boundaries also produce mountain chains and very large, explosive volcanoes.

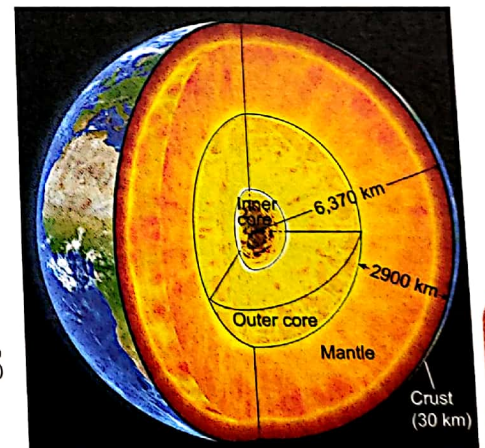
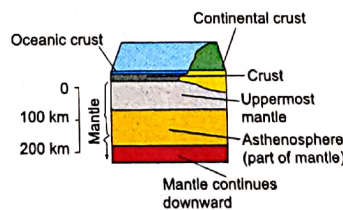
Plates slide past each other where transform boundaries occur, ideally with little or no vertical movement. Most transform boundaries are below sea level and therefore not easy to see. The San Andreas fault in California is a transform boundary. It has been estimated that these plates are moving at a speed of 1 to 10 cm per year.

Inside the Earth

The Earth is made up of four main layers—the **inner core**, **outer core**, the **mantle**, and the **crust** (Fig.23). We live on the outer part of the Earth, which is called the crust. This layer consists of the upper 30-100 km. The crust mostly consists of igneous rocks; the rest consists of sedimentary and metamorphic rocks. The layer from 0-20 km is called the **sial** as the two main constituents are **silicon** and **aluminium**. It is 2.7 times denser than water. The next layer is known as **sim** as a large quantity of **silicon** and **magnesium** is found in this layer. The average density of this layer is 3.4 times that of water.

The next layer called the **mantle** is 100-2,900 km thick. The upper part of the mantle is a plastic layer over which the crust floats. The mantle is composed of silicate material, but it is chemically distinct from the crust.

The Earth's **outer core** (2,900-5,100 km) is composed of liquid metallic material (primarily iron and nickel). The solid **inner core** (5,100-6,370 km) of the Earth is made up of iron. It has been discovered that the inner core is rotating and is the cause of Earth's magnetic field.

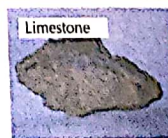


Rocks and Minerals

Rocks are the substances that make up the Earth. They include loose and unconsolidated deposits, as well as the hard, solid parts that make up the Earth's lithosphere. Rocks can be classified into three main groups on the basis of their origin—igneous, sedimentary and metamorphic. Minerals are the building materials of rocks. Rocks may be composed of only one mineral, while others contain many of them.



Igneous (or primary) rocks are the first rocks to be formed from magma or molten rock beneath the earth's crust, e.g. granite and basalt.



Sedimentary (stratified or layered) rocks are formed by the collection of sediments over a long span of time, e.g. sandstone and shale.

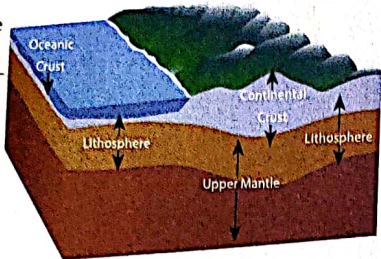


Metamorphic rocks are formed when the nature of any rock is altered by subjecting it to intense heat and/or pressure, e.g. graphite (from coal) and quartzite (from sandstone).

The lithosphere (geosphere), atmosphere and hydrosphere comprise the three realms of the Earth. We can define the biosphere (the fourth realm of the Earth) as the parts of the Earth's lithosphere (land), hydrosphere (water) and atmosphere (air) occupied by living organisms.

Lithosphere or Geosphere

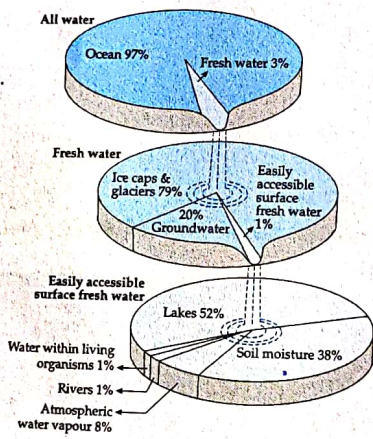
The lithosphere or geosphere is the solid, rocky crust covering the entire planet. This crust is inorganic and is composed of rocks, minerals and elements. It covers the entire surface of the Earth from the top of Mount Everest to the bottom of the Mariana Trench. On the surface of the Earth, the lithosphere is composed of three main types of rocks—igneous, sedimentary and metamorphic. The land area constitutes about 29 per cent of the total surface area of the Earth.



Structure of the lithosphere

Hydrosphere

The hydrosphere is the combined mass of water found on, under and over the surface of the Earth. About 71 per cent of the Earth's surface is covered by water in the form of oceans, seas, bays, gulfs, lakes, rivers, etc. The oceans contain most of the Earth's surface water. Most fresh water is frozen into glaciers. Most available fresh water is stored underground as groundwater.



Atmosphere

The atmosphere is made up of gases such as nitrogen (78 per cent), oxygen (21 per cent) and small amounts of carbon dioxide, argon, ammonia and a few others. Water vapour (1 per cent approximately) is also present in the atmosphere. The atmosphere has several different layers. Higher up, the air gets thinner and colder, and there is less oxygen to breathe. In the very highest layers there is hardly any air at all.

Structure of the Atmosphere

The layers of the atmosphere are not of uniform thickness or density. They also vary in other aspects.

Troposphere

It is the lowest layer of the atmosphere. It contains 75 per cent of the gases in the atmosphere. All weather phenomena that we experience on the Earth occur in this sphere.

Stratosphere

The stratosphere has a layer of ozone which protects life on Earth from the harmful ultraviolet light of the Sun.

Mesosphere

The temperature in the mesosphere decreases with height, reaching about -100°C in the upper mesosphere. This is the coldest region of the atmosphere.

Thermosphere

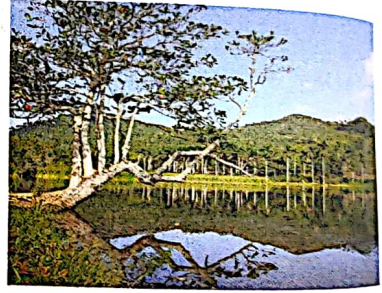
The temperature in the thermosphere increases with height. The thermosphere is also known as the heat sphere of the atmosphere.

Exosphere

It is the outermost layer of the atmosphere. This layer has the lightest gases like hydrogen and helium in extremely low densities. Most of the Earth's satellites orbit here.

Biosphere

The biosphere is made up of all living organisms of the Earth, as well as the physical environment in which they live and with which they interact. Most living organisms actually live within a small area in the biosphere, from about 500 m below the ocean's surface to about 6 km above sea level.



Structure of the atmosphere

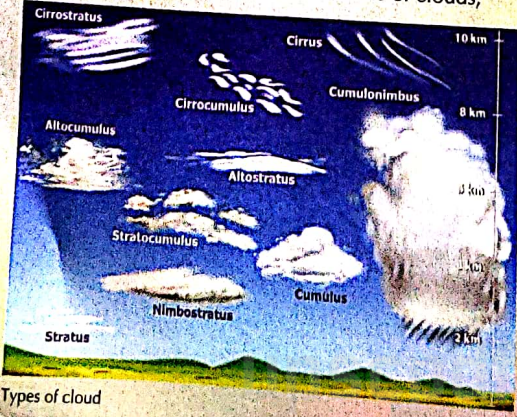
Atmospheric Clouds

High-level clouds such as cirrus, cirrostratus and cirrocumulus are usually thin and white in appearance.

Mid-level clouds are the altostratus and altostratus clouds.

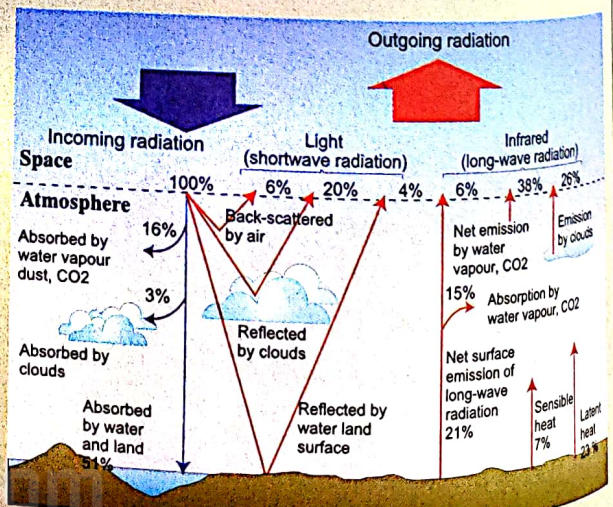
While altostratus may appear as parallel bands or rounded masses of clouds, altostratus clouds are generally uniform grey sheet or layered clouds.

Low clouds are the cumulus, stratus, nimbostratus and stratocumulus clouds. Cumulus clouds are 'puffy' clouds; stratus clouds are flat, featureless clouds; and nimbostratus and stratocumulus clouds are large, dark clouds.



Types of cloud

Heat Budget of the Earth



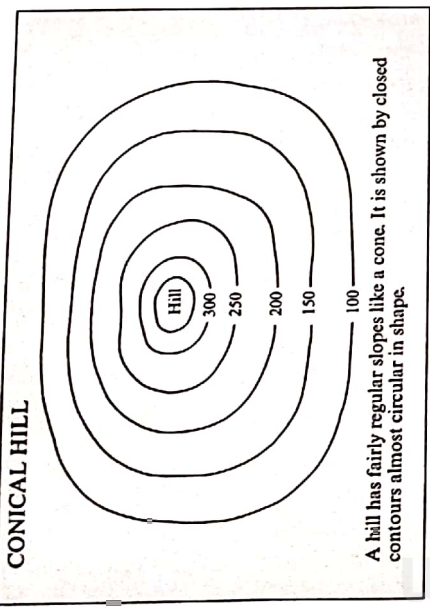
The process through which the incoming solar radiation on Earth is balanced by its outgoing terrestrial radiation is called heat balance. It is essential for the maintenance of the correct temperature of the planet to prevent it from getting hotter or cooler.

INTRODUCTION

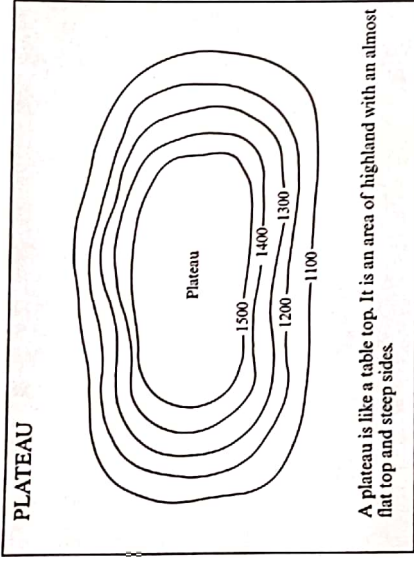
Contours and Landforms



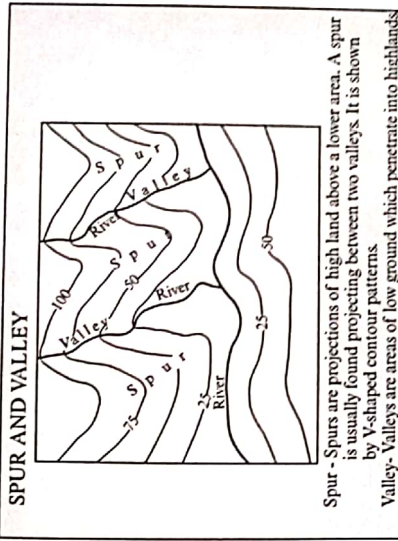
Contours and Landforms—One of the challenges of map-making is to adequately represent the physical relief of any region, i.e., the delineation of hills and plains, the distinguishing of high ground and low ground. The main method of showing relief features on a flat sheet of paper is by using contours. A contour is a line on a map joining all points which are of the same height above sea level. Contour lines are used to show the height and shapes of landforms in lowland and highland areas. Some of the relief features or landforms are shown below using certain contour patterns.



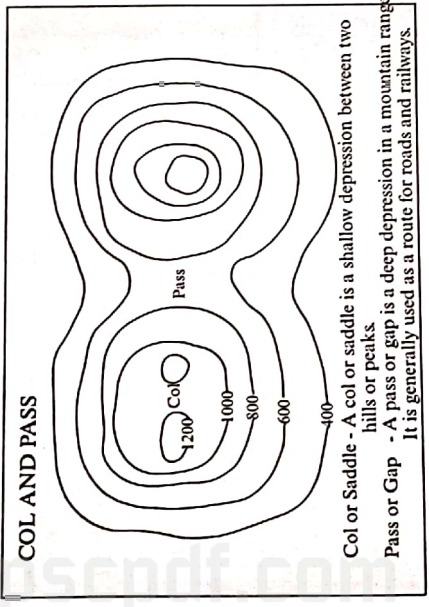
CONICAL HILL
A hill has fairly regular slopes like a cone. It is shown by closed contours almost circular in shape.



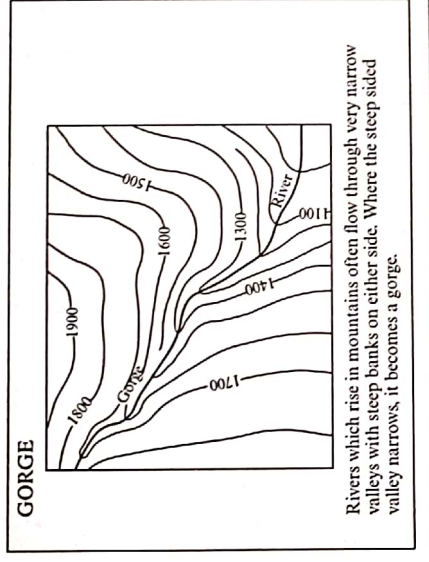
PLATEAU
A plateau is like a table top. It is an area of highland with an almost flat top and steep sides.



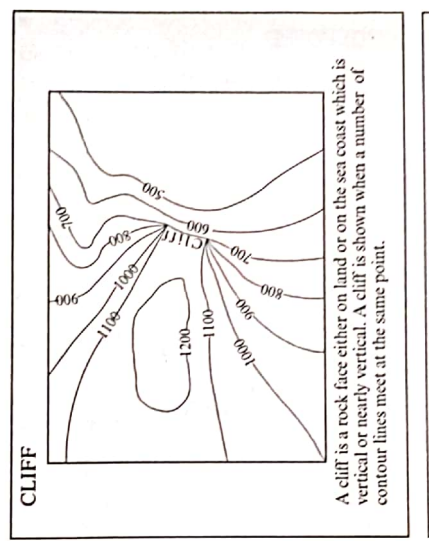
SPUR AND VALLEY
Spur - Spurs are projections of high land above a lower area. A spur is usually found projecting between two valleys. It is shown by V-shaped contour patterns.
Valley- Valleys are areas of low ground which penetrate into highlands



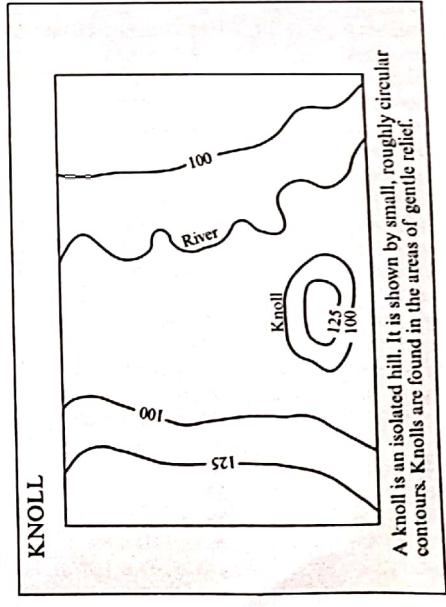
COL AND PASS
Col or Saddle - A col or saddle is a shallow depression between two hills or peaks.
Pass or Gap - A pass or gap is a deep depression in a mountain range. It is generally used as a route for roads and railways.



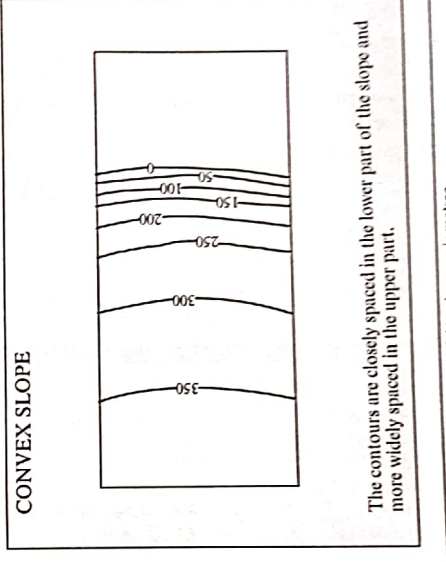
GORGE
Rivers which rise in mountains often flow through very narrow valleys with steep banks on either side. Where the steep sided valley narrows, it becomes a gorge.



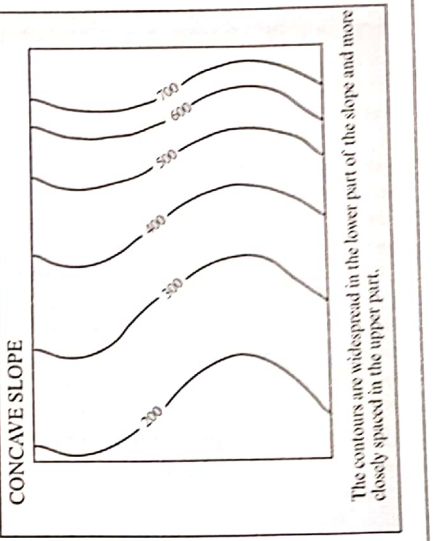
CLIFF
A cliff is a rock face either on land or on the sea coast which is vertical or nearly vertical. A cliff is shown when a number of contour lines meet at the same point.



KNOLL
A knoll is an isolated hill. It is shown by small, roughly circular contours. Knolls are found in the areas of gentle relief.



CONVEX SLOPE
The contours are closely spaced in the lower part of the slope and more widely spaced in the upper part.



CONCAVE SLOPE
The contours are widespread in the lower part of the slope and more closely spaced in the upper part.

Heights given are in metres

NO-TUTORING

The Indian Subcontinent—Physical

The Indian Subcontinent—Physical

FACTS AND FIGURES

India: Location and extent
 Latitudinal extent: 8 degree 4 N to 37 degree 8 N
 Longitudinal extent: 68 degree 7 E to 97 degree 25 E
 Area: 3,287,263 sq. km
 7th largest country
 North-south extent: 3,214 km
 East-west extent: 2,933 km
 Neighbouring countries: Afghanistan, Pakistan, Nepal, Bhutan, China, Bangladesh, Myanmar, Sri Lanka, Maldives
 5 1/2 hours ahead of GMT
 Indian Standard Time (IST): 82°30' E
 Indian Standard Meridian: 15,200 km
 Land boundary: 7,516 km
 Length of coastline: 7,516 km

Peaks of the Himalayas

Peak	Country	Height (in metres)
MT Everest	Nepal/China	8,848
K2	India	8,611
Kangchenjunga	Nepal	8,516
MT Dhaulagiri	Nepal	8,463
Cho Oyu	Nepal/Tibet	8,201
Nanda Devi	India	8,172
Annapurna I	Nepal	8,078
Dhaulagiri	Nepal	7,816
Nanda Devi	India	7,756
Devi Shairi	India	7,756
Nanda Devi	Tibet/China	7,694
Nanda Devi	Bhutan	7,561
Nanda Devi	Tibet/China	7,554

Mountain passes in India

State	Height (in metres)
J & K (Siachen Glacier)	5,686
HP	5,669
Uttarakhand	5,608
Pass	5,602
J & K (Ladakh)	5,602
J & K (Siachen Glacier)	5,589
J & K (Ladakh)	5,582
HP	5,466
J & K (Ladakh)	5,450
HP	5,411
J & K (Ladakh)	5,360
Uttarakhand	5,359
Uttarakhand	5,334
HP	5,284
Uttarakhand	5,200
J & K (Ladakh)	5,171
J & K (Ladakh)	5,100
HP	5,000
Uttarakhand	4,990
Sikkim	4,940
J & K (Ladakh)	4,693
Uttarakhand	4,650
HP (Lahaul and Spiti)	4,551
HP	4,520
Sikkim	4,411
Sikkim	4,310
Himachal Pradesh	4,270
J & K (Kashmir, Ladakh)	3,978
J & K	3,800
J & K	2,832
Arunachal Pradesh	2,217

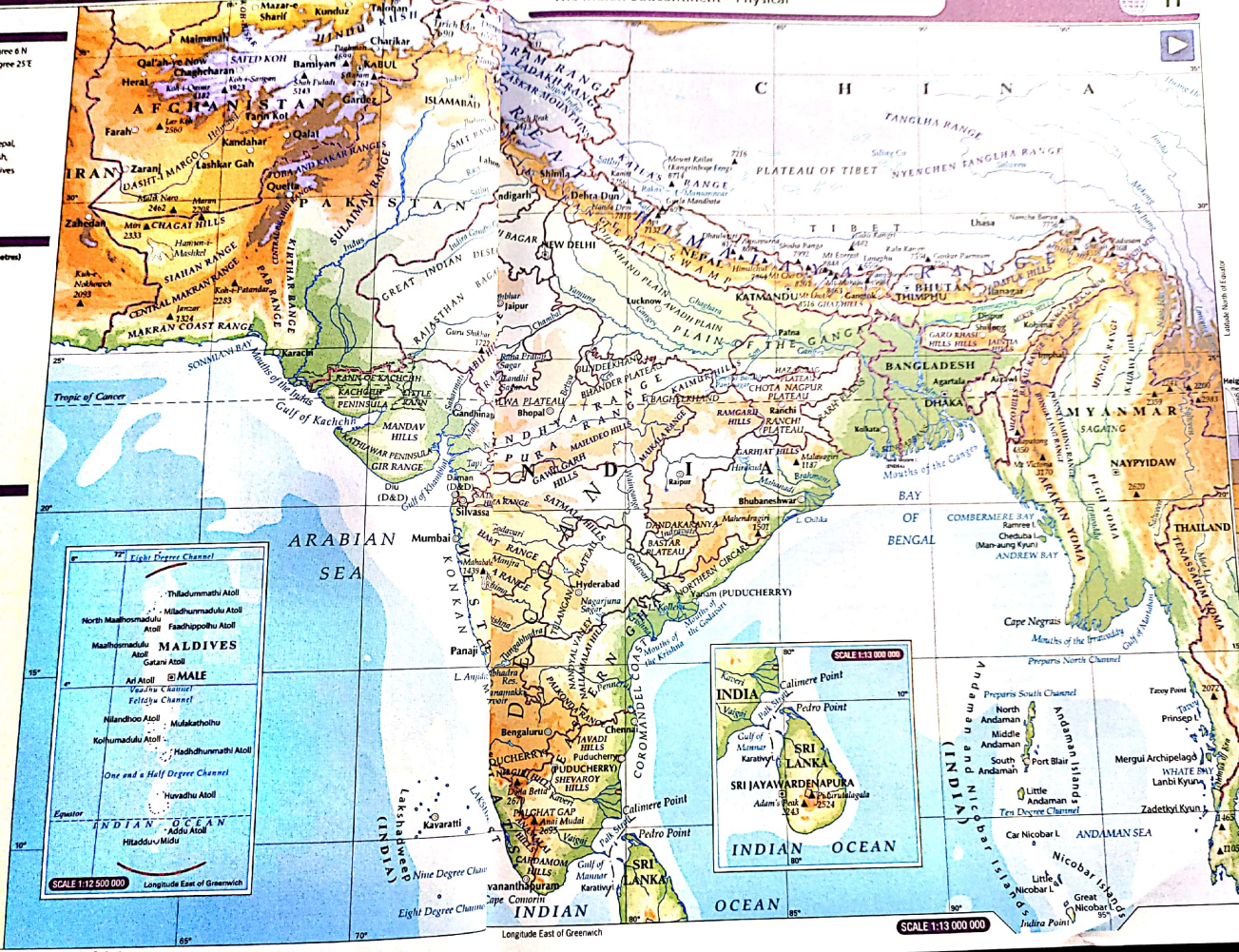


Plate Carré/Geographic Projection

The Indian Subcontinent—Political

INDIA—STATES AND DISTRICTS

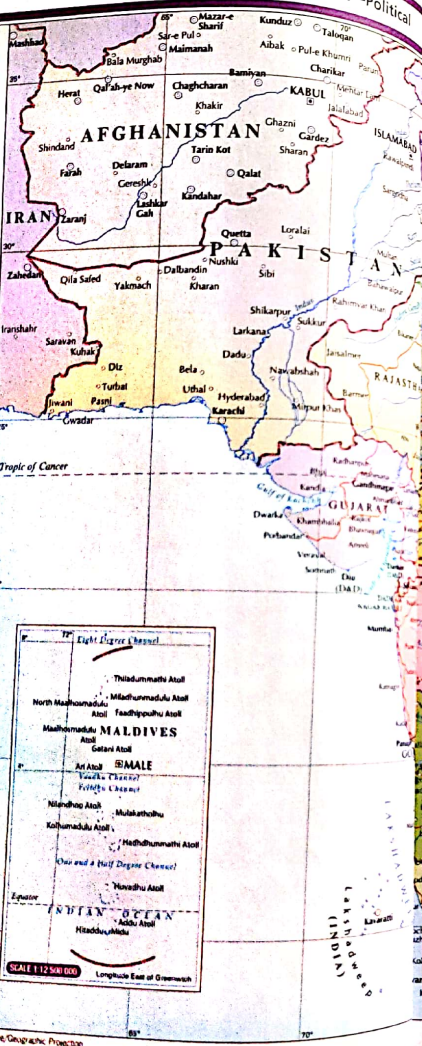
State/Union Territory	Capital	Area (sq. km)	Total Population (2011)	No. of Districts
INDIA	New Delhi	3,287,243	1,210,599,573	729
States				
Andhra Pradesh	Hyderabad	160,295	49,378,776	13
Assam	Dispur	81,243	1,38,26,111	22
Bihar	Patna	94,163	103,804,637	34
Chhattisgarh	Raipur	135,191	25,540,196	27
Goa	Panaji	3,702	14,57,723	02
Gujarat	Gandhinagar	196,024	60,383,628	33
Haryana	Chandigarh	44,212	25,353,081	22
Himachal Pradesh	Shimla	55,673	6,856,509	12
Jammu & Kashmir	Ranichit	222,236	12,546,926	24
Jharkhand	Ranchi	79,714	32,964,238	24
Karnataka	Bengaluru	191,991	61,130,704	30
Kerala	Thiruvananthapuram	38,863	33,387,677	14
Madhya Pradesh	Bhopal	308,245	72,597,565	51
Maharashtra	Mumbai	307,913	112,372,972	36
Mizoram	Imphal	22,532	1,271,256	16
Meghalaya	Shillong	22,429	2,964,007	11
Nagaland	Kohima	21,081	1,091,014	08
Nagaland	Kohima	16,579	1,989,602	11
Odisha	Bhubaneswar	155,207	41,947,358	30
Punjab	Chandigarh	50,362	27,704,236	22
Rajasthan	Jaipur	342,239	68,621,012	33
Sikkim	Gangtok	7,096	607,688	04
Tamil Nadu	Chennai	130,058	71,386,958	31
Telangana	Hyderabad	114,840	35,286,757	31
Tripura	Agartala	10,486	3,871,032	08
Uttar Pradesh	Lucknow	240,928	199,581,477	75
Uttarakhand	Dehra Dun	53,483	10,116,752	13
West Bengal	Kolkata	88,752	91,347,736	23
Union territories				
Andaman & Nicobar Is.	Port Blair	8,249	379,944	03
Chandigarh	Chandigarh	114	1,054,686	01
Dadra & Nagar Haveli	Silvassa	491	342,853	01
Daman & Diu	Daman	112	242,911	02
Delhi	Delhi	1,483	16,753,235	11
Lakshadweep	Kavaratti	32	64,429	01
Puducherry	Puducherry	479	1,244,464	04

Notes:
 1. The missing area figures do not add up to the total area of India because:
 (a) The border of 17.6 km area of Madhya Pradesh and 3 km area of Chhattisgarh is yet to be resolved by the Survey of India.
 (b) Disputed area of 13 sq. km between Puducherry and Andhra Pradesh is not included in either Puducherry or Andhra Pradesh.
 (c) Area figures include the area under unlawful occupation of Pakistan and China. The area includes 78,114 sq. km under illegal occupation of Pakistan, 5,180 sq. km illegally held area by Pakistan to China and 27,555 sq. km under illegal occupation of China in Ladakh district.
 2. The population figures include population of the area under unlawful occupation of Pakistan and China where census could not be taken. The population figures of India and Manipal include the estimated population of Sempoa district of Manipal State.

INDIA AND ITS NEIGHBOURS

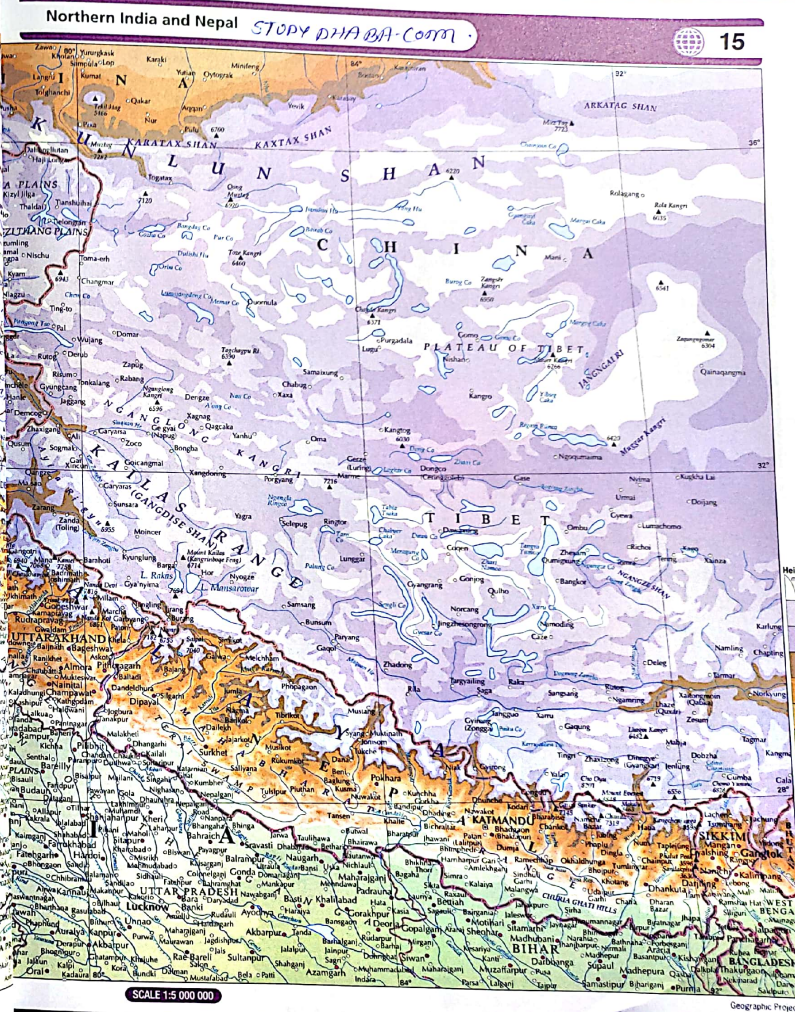
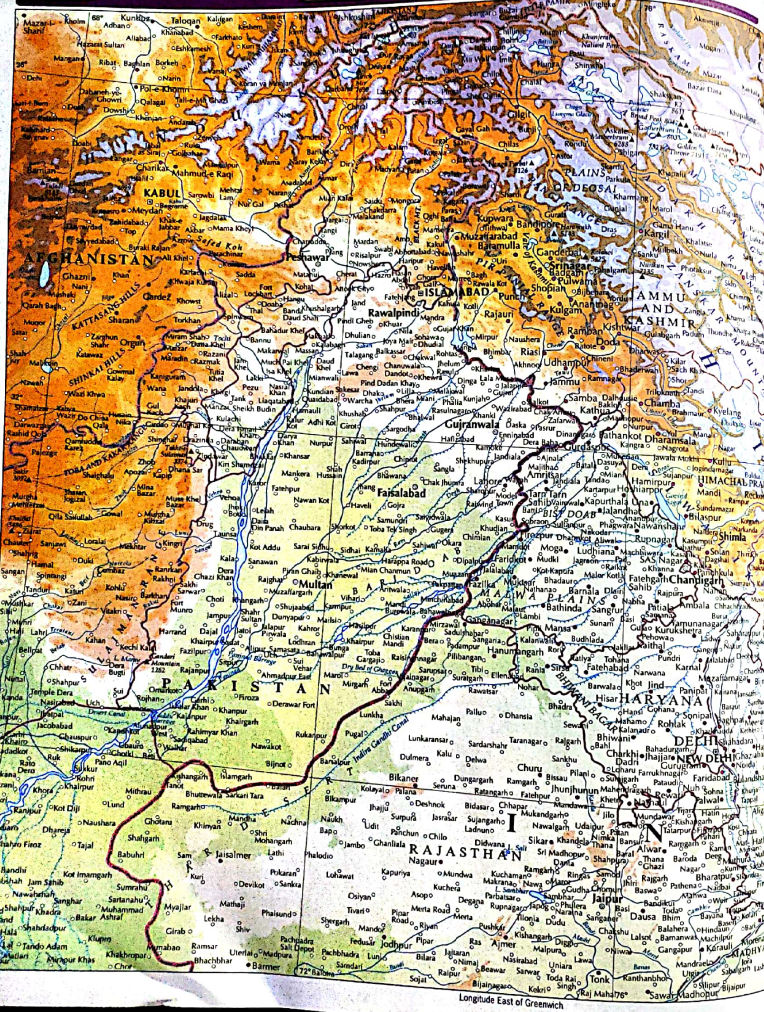
Country	Capital	Area (sq. km)	Population (2015) (millions)	Density (persons per sq. km)	Average annual population growth, 2000-2015 (in per cent)
Afghanistan	Kabul	652,225	32.5	50	3.3
Bangladesh	Dhaka	143,998	161.0	1,237	1.4
Bhutan	Thimphu	38,394	0.8	20	2.1
India	New Delhi	3,287,240	1,210.2	382	1.5
Maldives	Male	798	0.3	1,364	2.4
Myanmar	Naypyidaw	676,377	53.9	83	0.8
Nepal	Katmandu	147,181	26.5	199	1.2
Pakistan	Islamabad	803,940	180.0	245	2.1
Sri Lanka	Columbo	65,610	21.2	334	0.8

Notes: *Data source: The World Bank, 2015.
 **Data source for population and density figures of India, 2011.

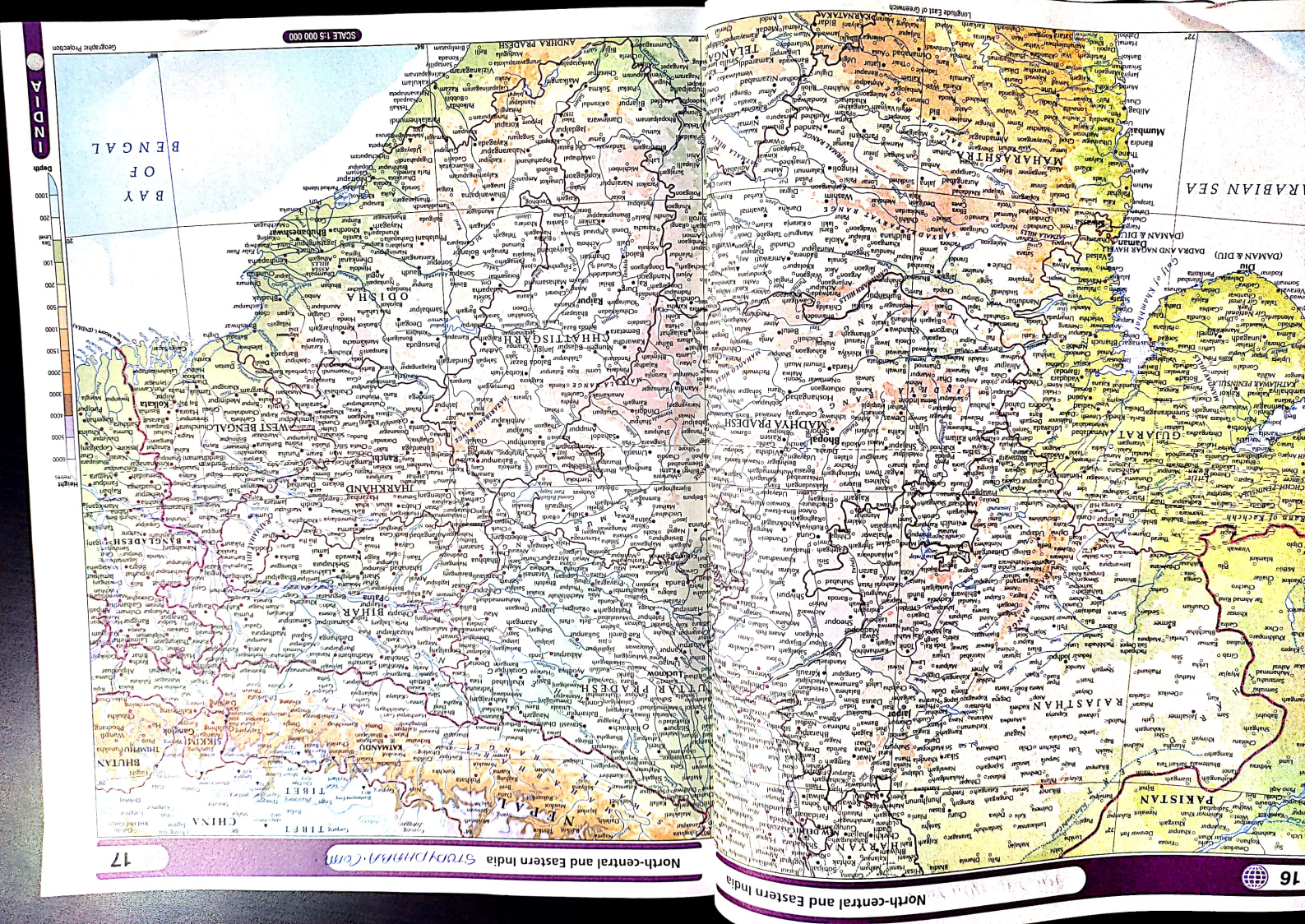


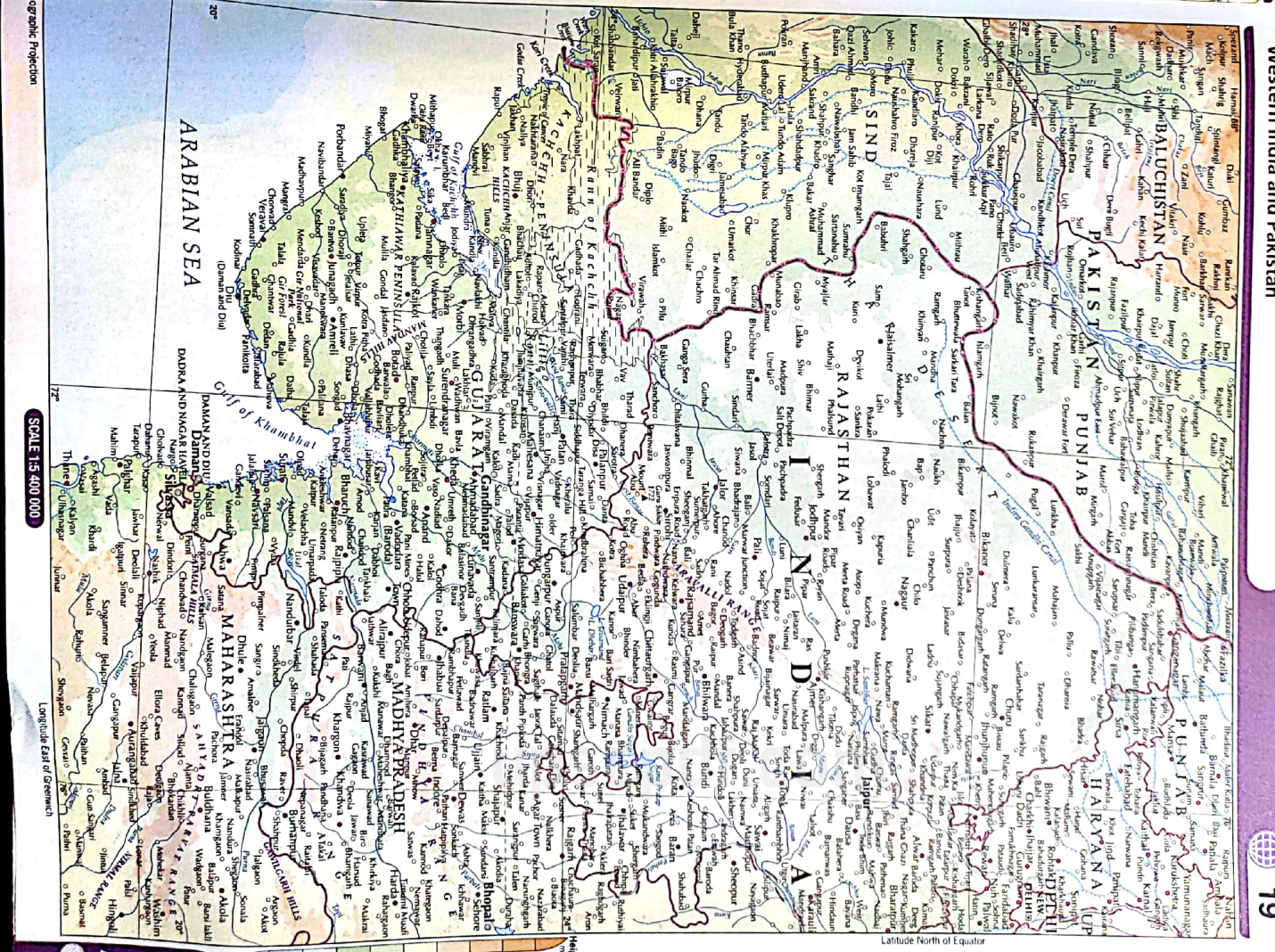
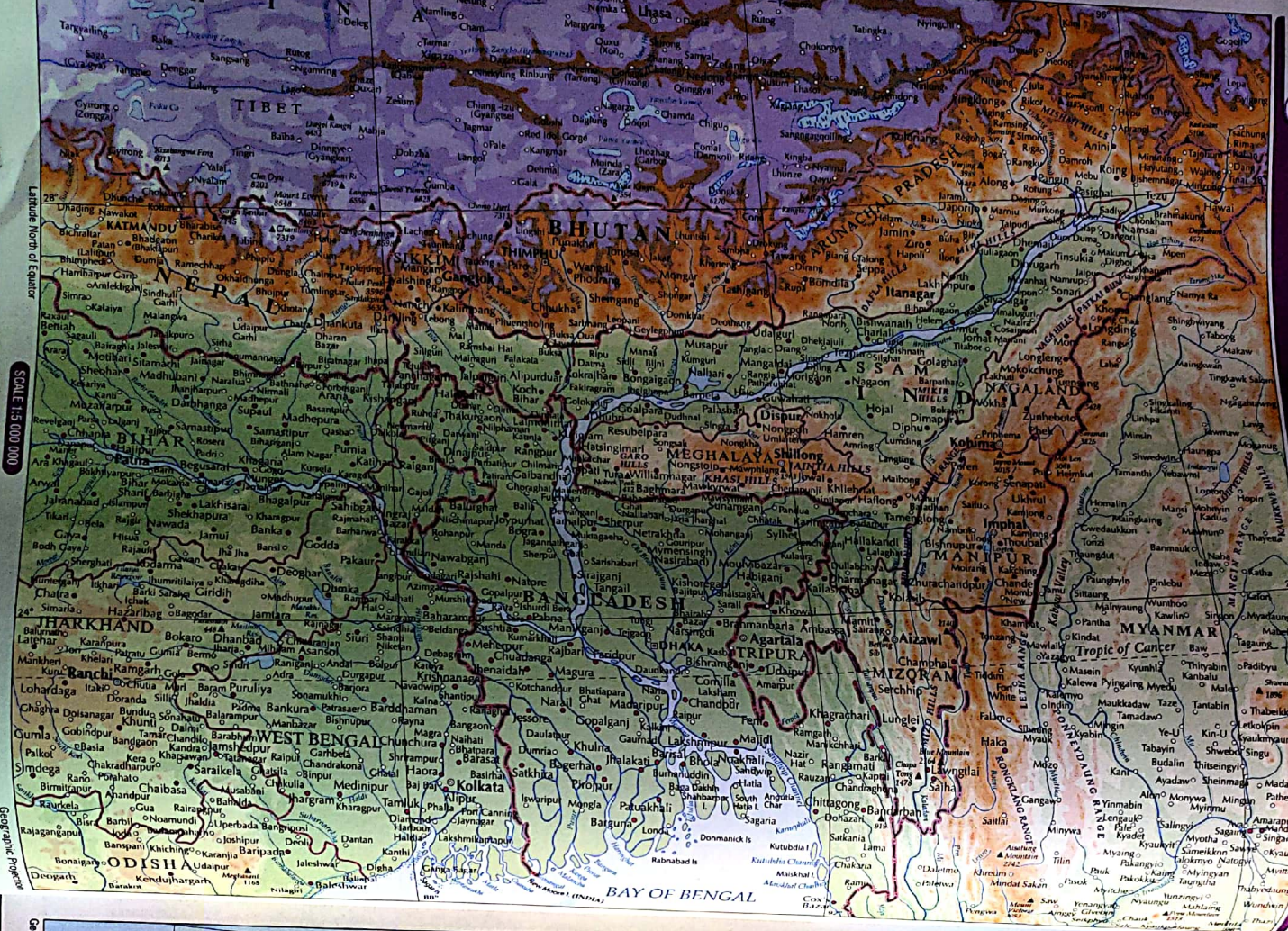
The Indian Subcontinent—Political

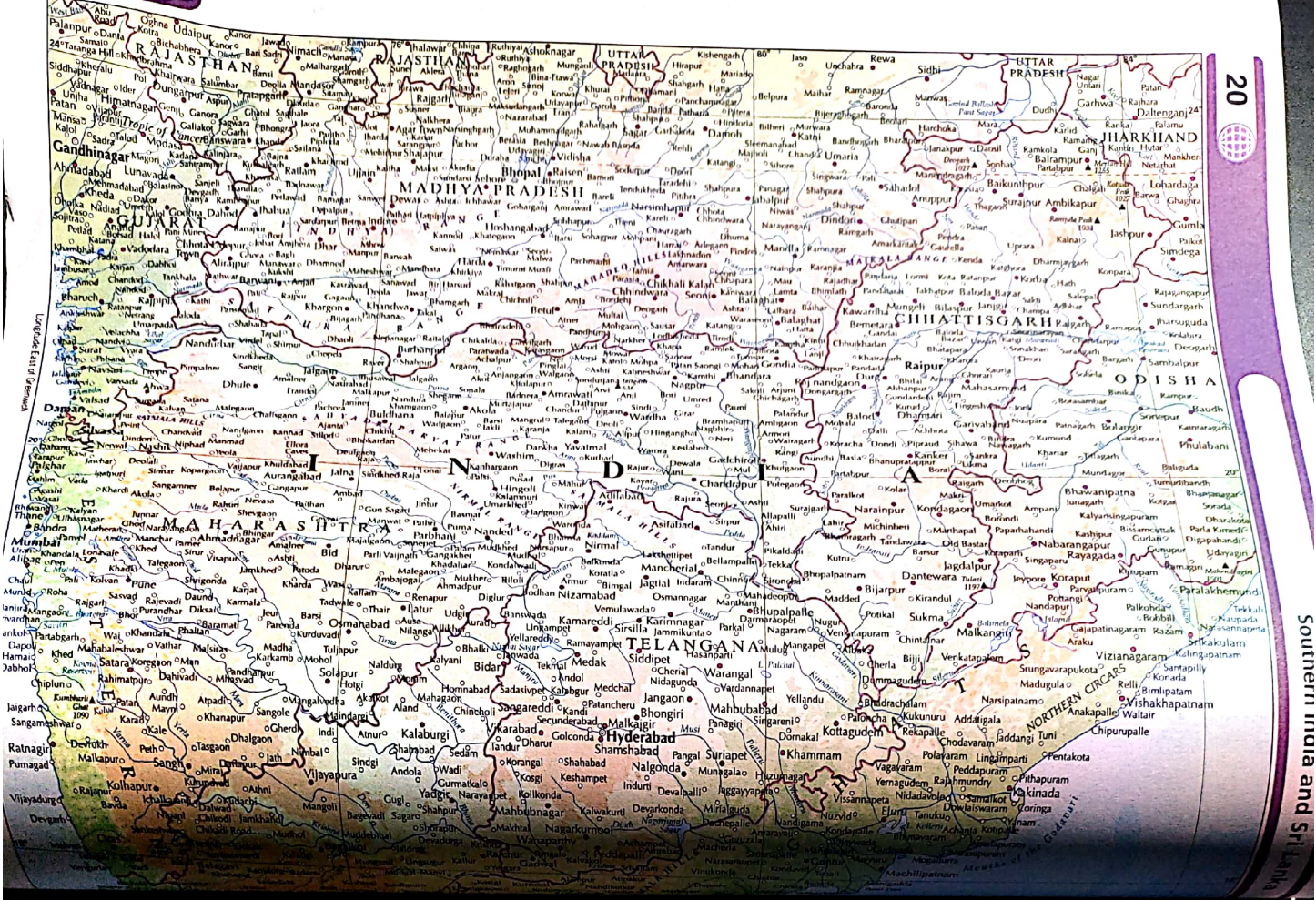




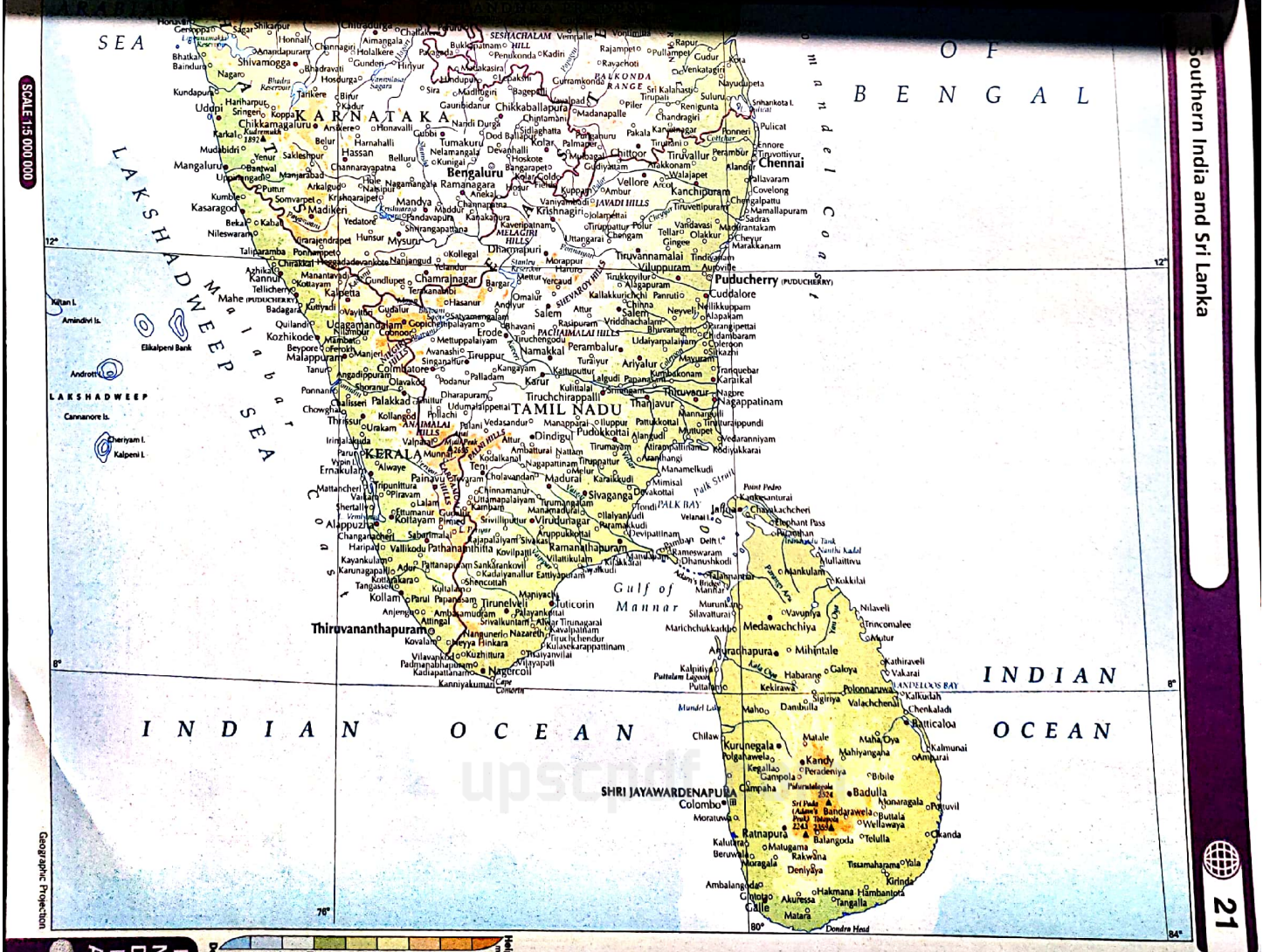
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Southern India and Sri Lanka



Southern India and Sri Lanka



Lambert Conical Orthomorphic Projection

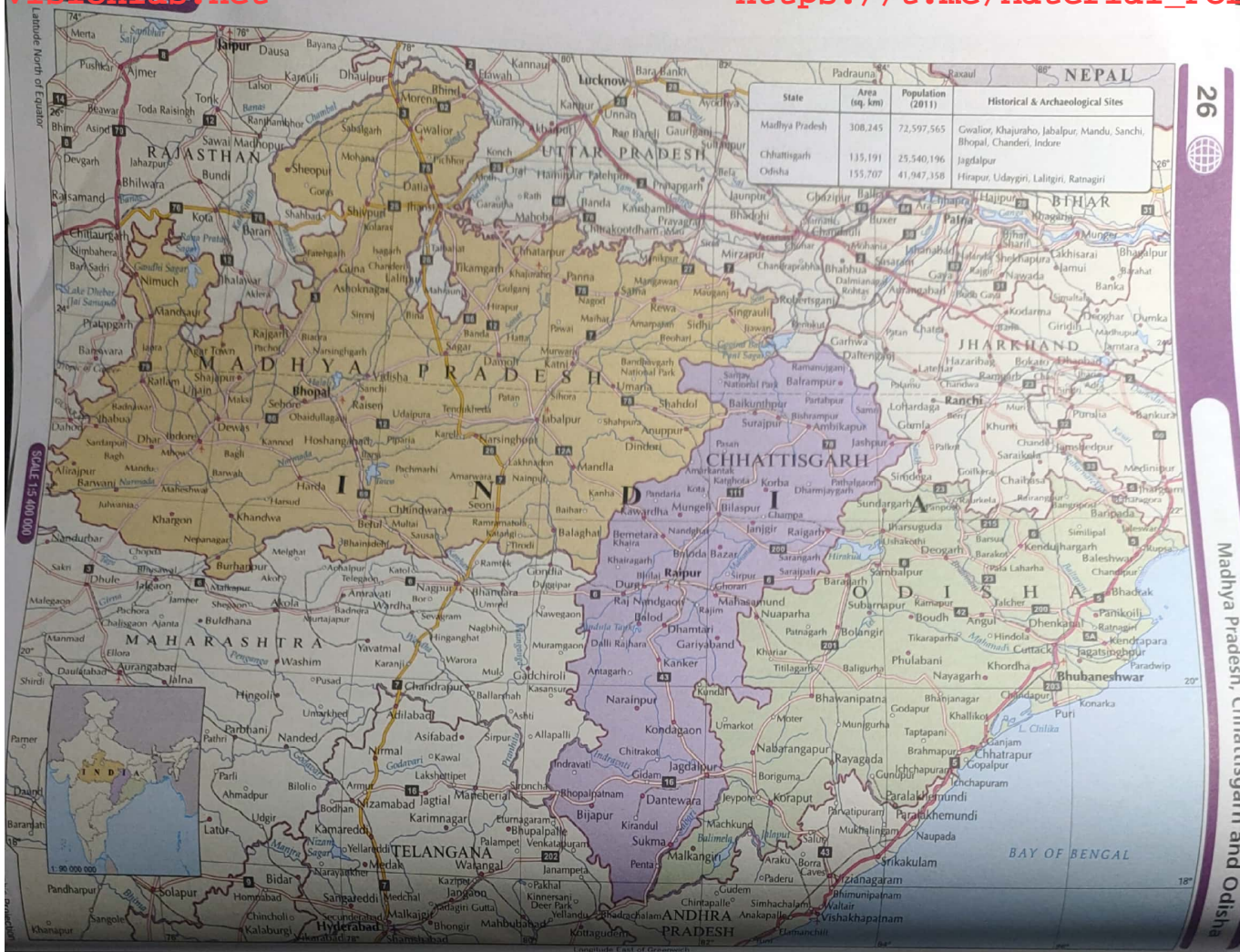
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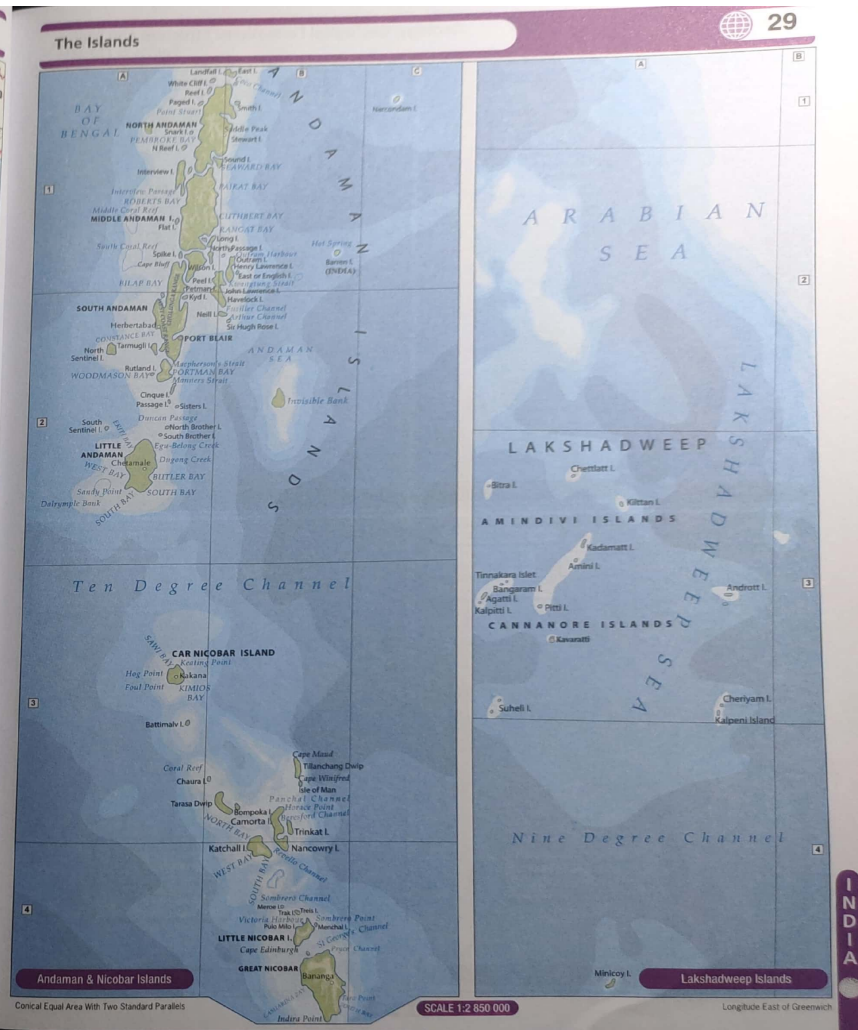
State	Area (sq. km)	Population (2011)	Historical & Archaeological Sites
Sikkim	7,096	607,688	Gangtok, Tashiding
West Bengal	88,752	91,347,736	Kolkata, Bankura, Murshidabad, Vishnupur, Bardhaman
Assam	78,438	31,169,272	Madan - Kamdev (Guwahati)
Assam	83,743	1,382,611	Bismaknagar
Meghalaya	22,429	2,964,007	
Manipur	22,327	2,721,756	Imphal
Mizoram	21,081	1,091,014	
Nagaland	16,579	1,980,602	
Tripura	10,486	3,671,032	Agartala, Udaipur



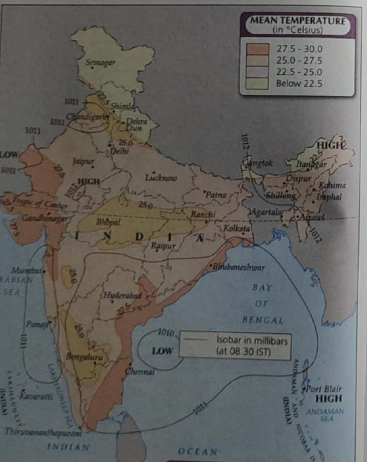
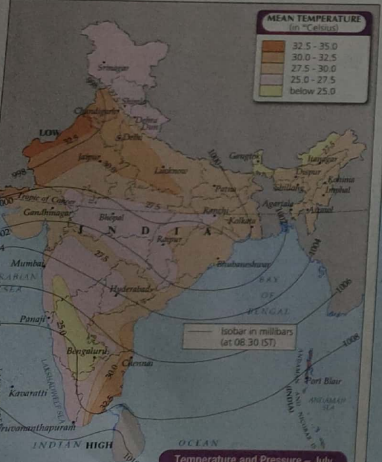
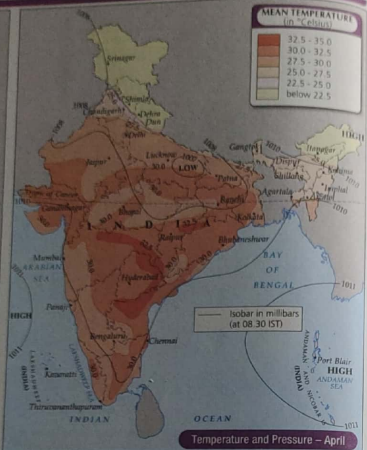
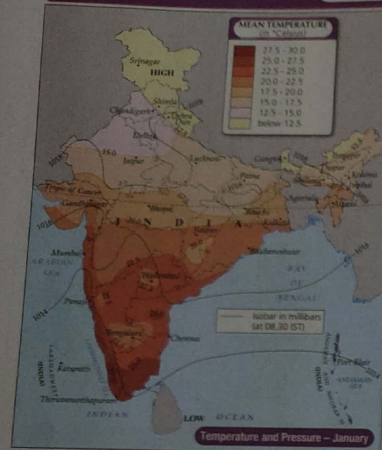
Sikkim, West Bengal and the North-Eastern States







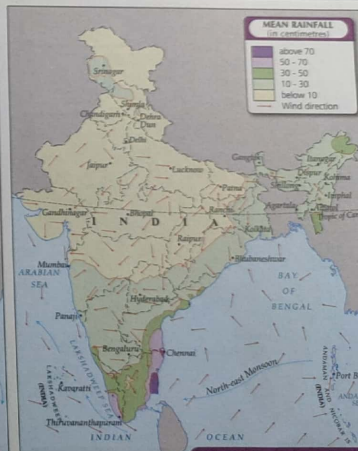
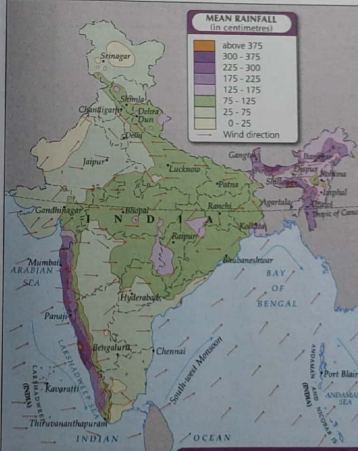
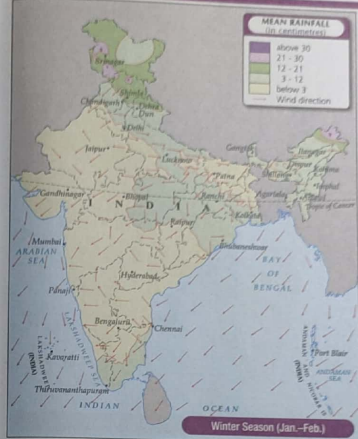
Temperature and Pressure



SCALE 1:30 500 000

Lambert Conical Orthographic Projection

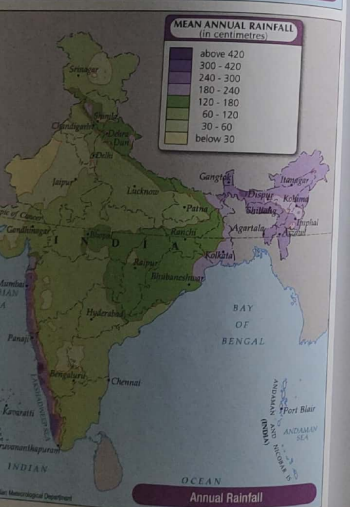
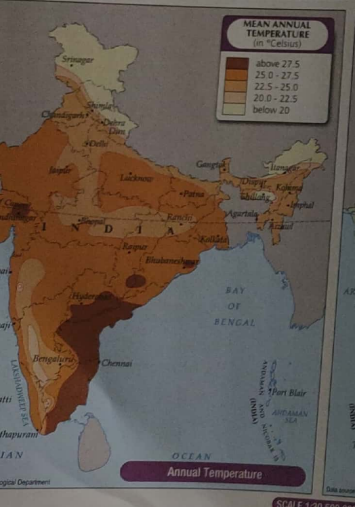
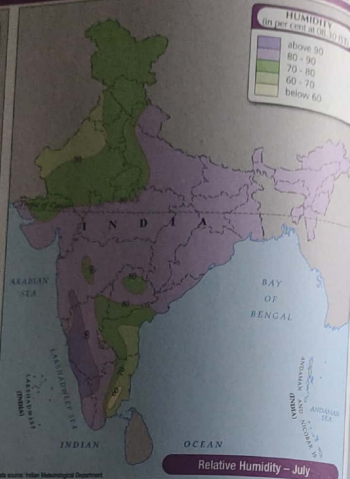
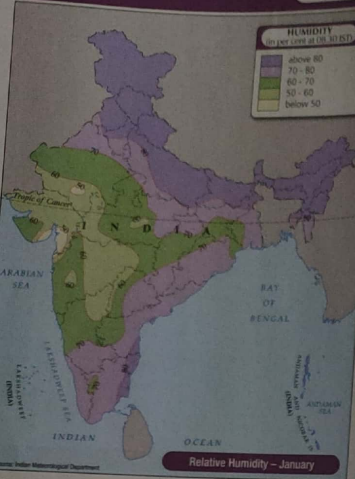
Rainfall and Winds



SCALE 1:30 500 000

Lambert Conical Orthographic Projection

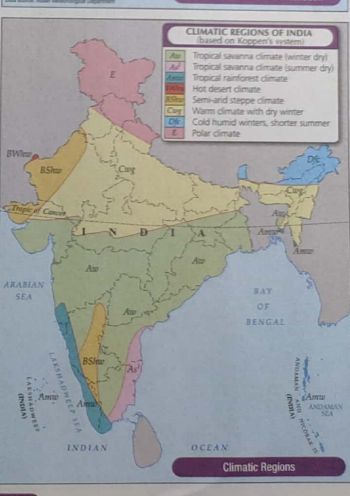
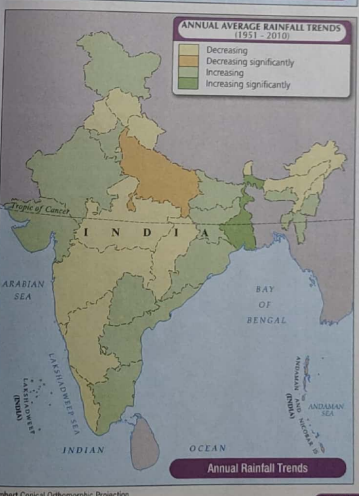
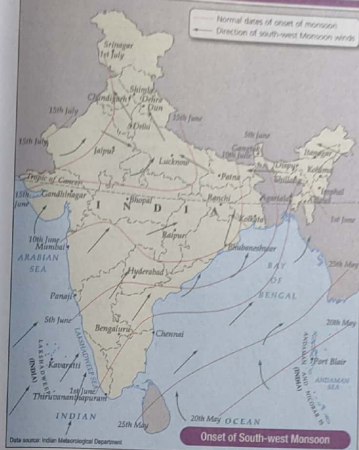
Relative Humidity, Annual Temperature and Annual Rainfall



SCALE 1:30 500 000

Lambert Conical Orthomorphic Projection

Monsoon, Rainfall Trends and Climatic Regions



SCALE 1:30 500 000

Lambert Conical Orthomorphic Projection

Biogeographic Zones, Wildlife and Wetlands 1

BIOGEOGRAPHIC ZONES
(area in per cent out of total geographical area)

Trans-Himalayas	5.6
Himalayas	6.4
Desert	6.6
Semi-arid	16.6
Western Ghats	4.0
Deccan Peninsula	42.0
Gangetic Plain	10.8
North-East India	5.2
Islands	0.3
Coasts	2.5
Biodiversity hotspots	

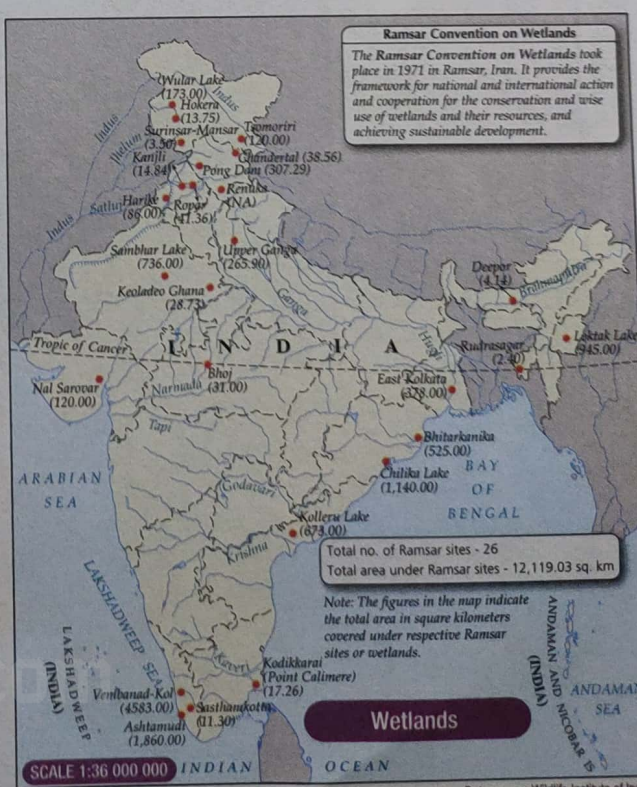
WILDLIFE
(Number of protected areas)

National Parks	103
Wildlife Sanctuaries	537
Bird Sanctuaries	21
Tiger Reserves	49
Elephant Reserves	32
Biosphere Reserves	18
Natural World Heritage sites	07

Total no. of Tigers in India - 2,226 (2014)

Status of protected area in India - 2016

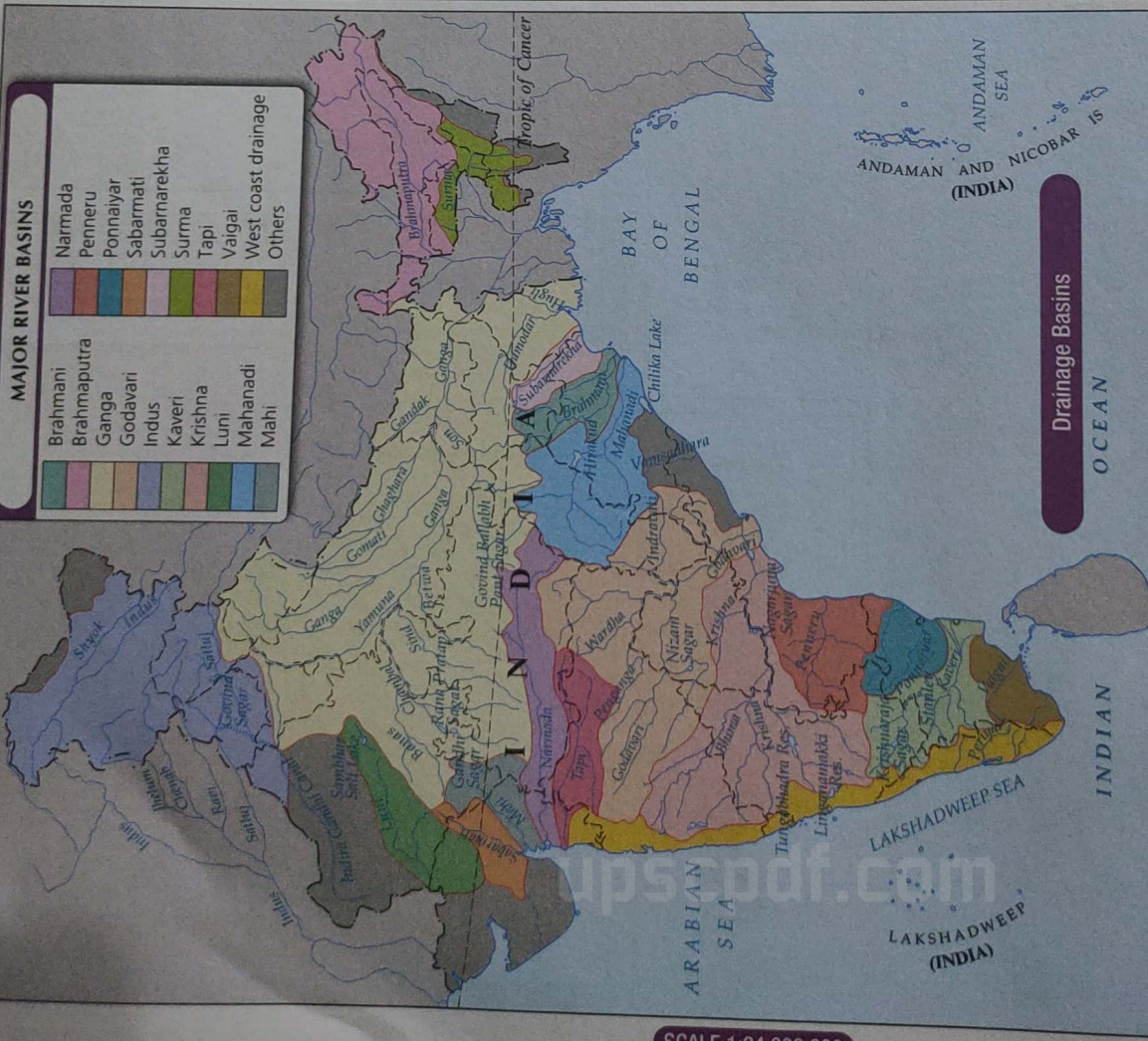
Protected area type	Area covered (sq. km)	% of total geographical area
National Parks	40,500.13	1.23
Wildlife Sanctuaries	118,005.30	3.59
Conservation and community reserves	2,396.31	0.07
Total protected area	160,901.74	4.89



Lambert Conical Orthomorphic Projection

SCALE 1:15 000 000

Data source: Wildlife Institute of India, Ministry of Environment and Forests, 2015-16

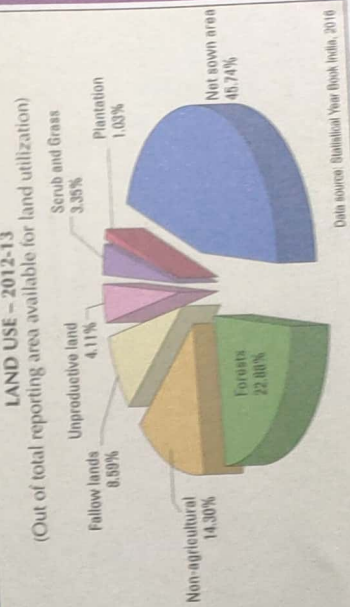
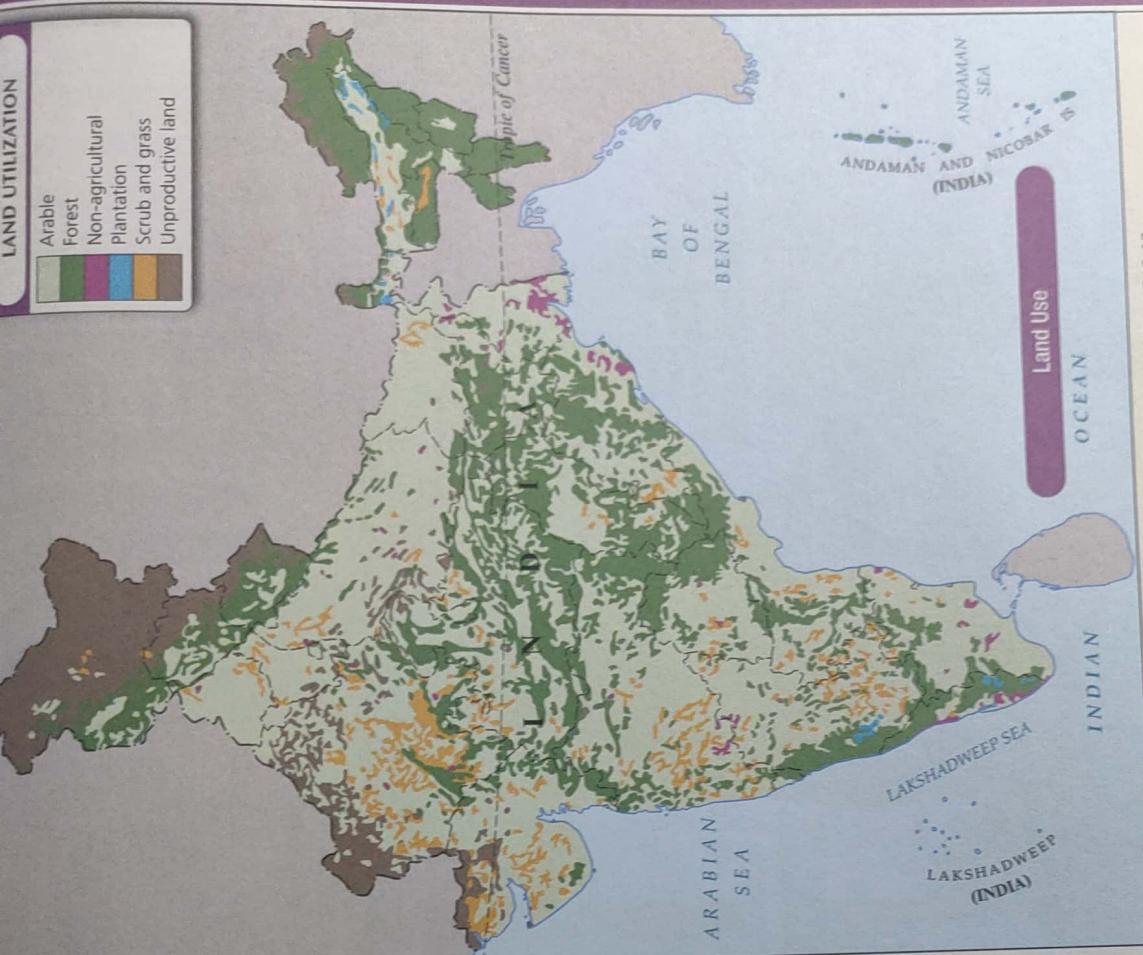


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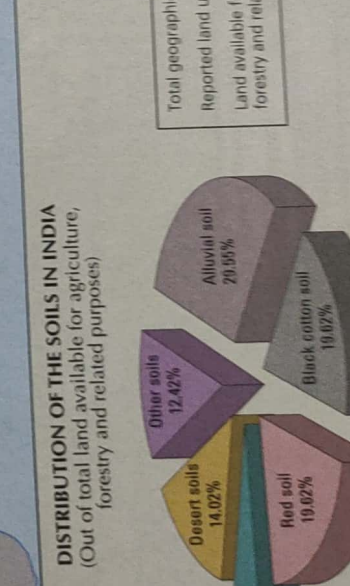
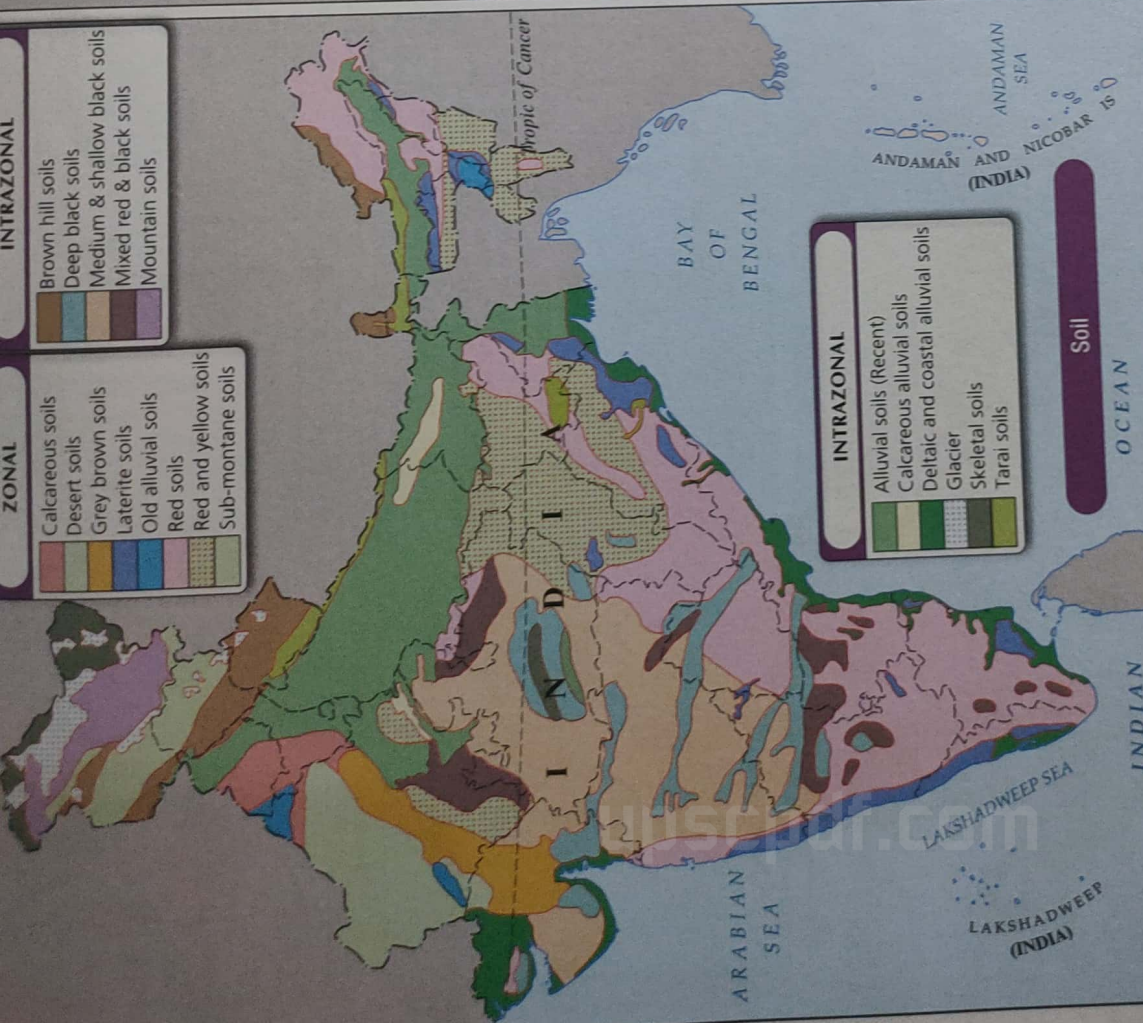
MAJOR RIVER BASINS OF THE COUNTRY (Figures within brackets indicate total length of rivers and basin area)				
Sl. No.	Name of the river	Origin	Length (km)	Catchment Area (sq. km)
East flowing rivers				
1	Baitarani	Keeonjhar (Odisha)	365	12,789
2	Brahmani	Ranchi (Jharkhand)	799	39,033
3	Brahmaputra	Kailash Range (Tibet)	916 (2,900)	194,413 (580,000)
4	Ganga	Gangotri (Uttarakhand)	2,525	861,452 (1,186,000)
5	Godavari	Nasik (Maharashtra)	1,465	312,812
6	Kaveri	Coorg (Karnataka)	800	81,155
7	Krishna	Mahabaleshwar (Maharashtra)	1,401	259,948
8	Mahanadi	Nazri Town (Madhya Pradesh)	851	141,589
9	Palar (including tributary Chayyan)	Kolar (Karnataka)	348	17,871
West flowing rivers				
10	Permeru	Kolar (Karnataka)	597	55,213
11	Ponnaiyar	Kolar (Karnataka)	396	14,130
12	Subarnarekha	Nagri/Ranchi (Jharkhand)	395	19,296
13	Vamsadhara	Kalahandi (Odisha)	221	10,830
West flowing rivers				
14	Indus	Mansarovar (Tibet)	1,114 (2,080)	321,289 (1,165,500)
15	Mahi	Dhar (Madhya Pradesh)	583	34,842
16	Narmada	Amarkantak (Madhya Pradesh)	1,312	98,796
17	Subarnali	Aravalli Hills (Rajasthan)	371	21,074
18	Tapi	Betul (Madhya Pradesh)	724	65,145
				Total
				2,403,000

East and West Flowing Rivers

East flowing rivers		West flowing rivers	
Name of the river	Name of the river	Name of the river	Name of the river
Burhabaling	Swarnamukhi	Ozari	Saati
Rushikuluya	Kandluru	Shetrunji	Washishini
Bahuda	Kotalaiyar	Bhadar	Mandvi
Nagavali	Vorabandi	Aji	Kallimadi
Sarda	Vellar	Dhuchar	Gangavati or Bedi
Eleru	Volgal	Purna	Sharavati
Vogarivagu	Rambar	Ambika	Neiravati
Gundlakamma	Gundar	Vaiarna	Challar or Baypore
Musi	Vaiyyar	Dammarganga	Ponnani
	Tambapanni	Ullas	Phalar
			Phalar



Total geographical area	328 million hectares
Reported land utilization	306 million hectares
Land available for agriculture, forestry and related purposes	264 million hectares

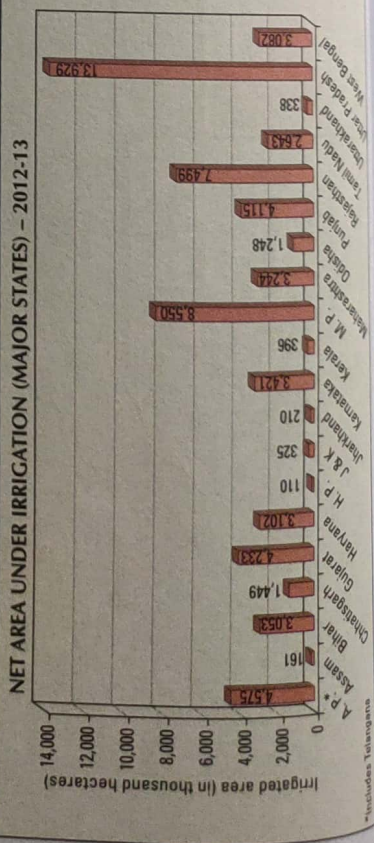
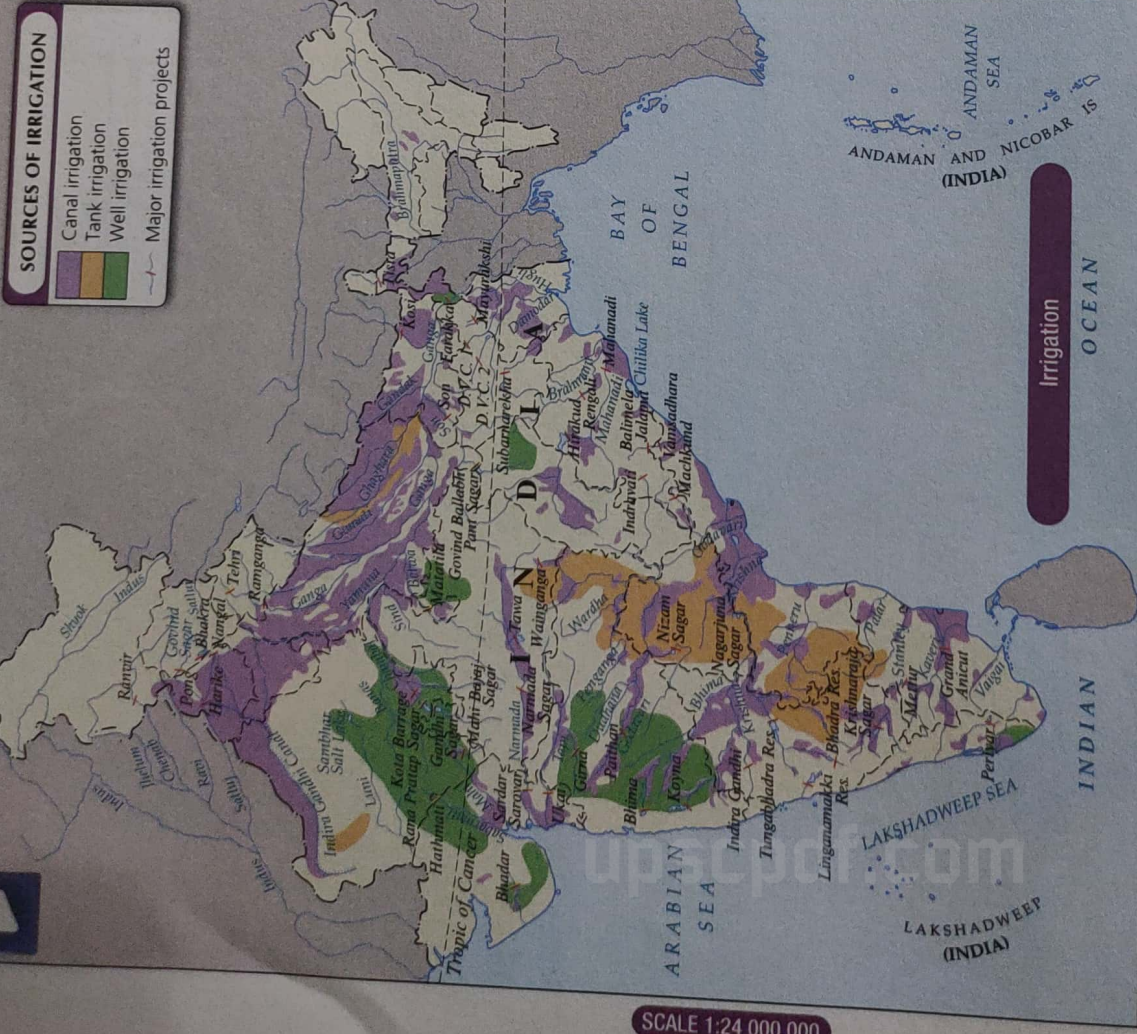
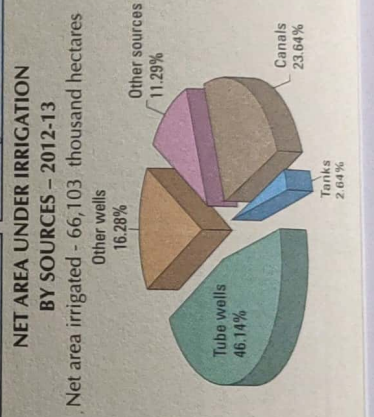
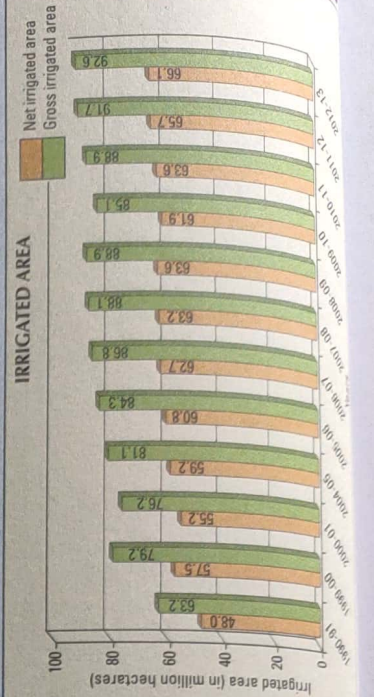
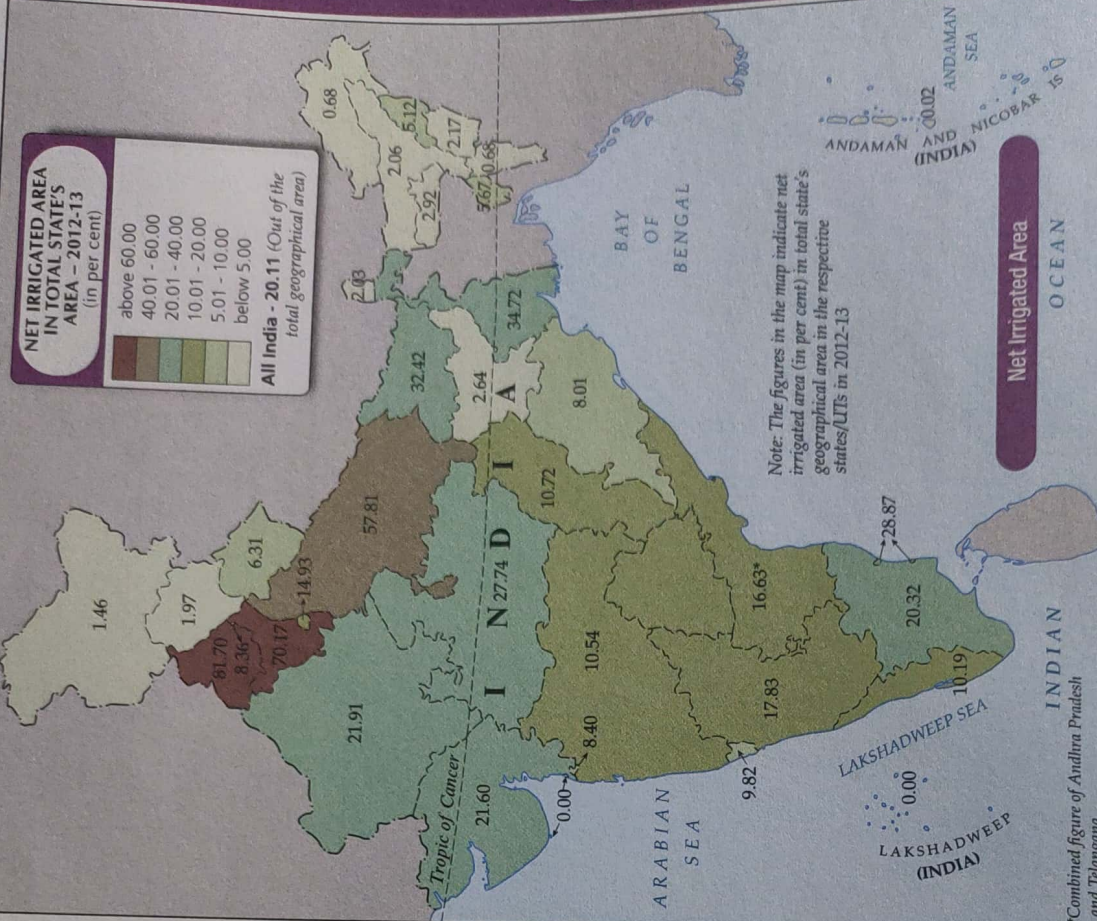


TYPES OF SOIL

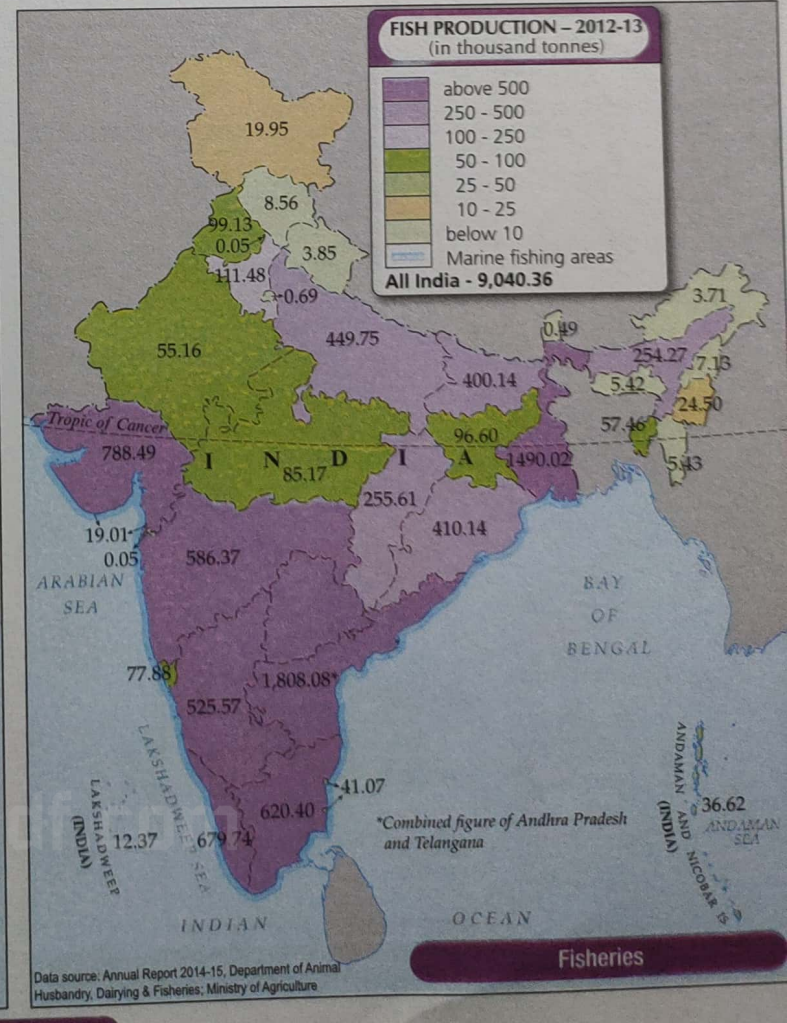
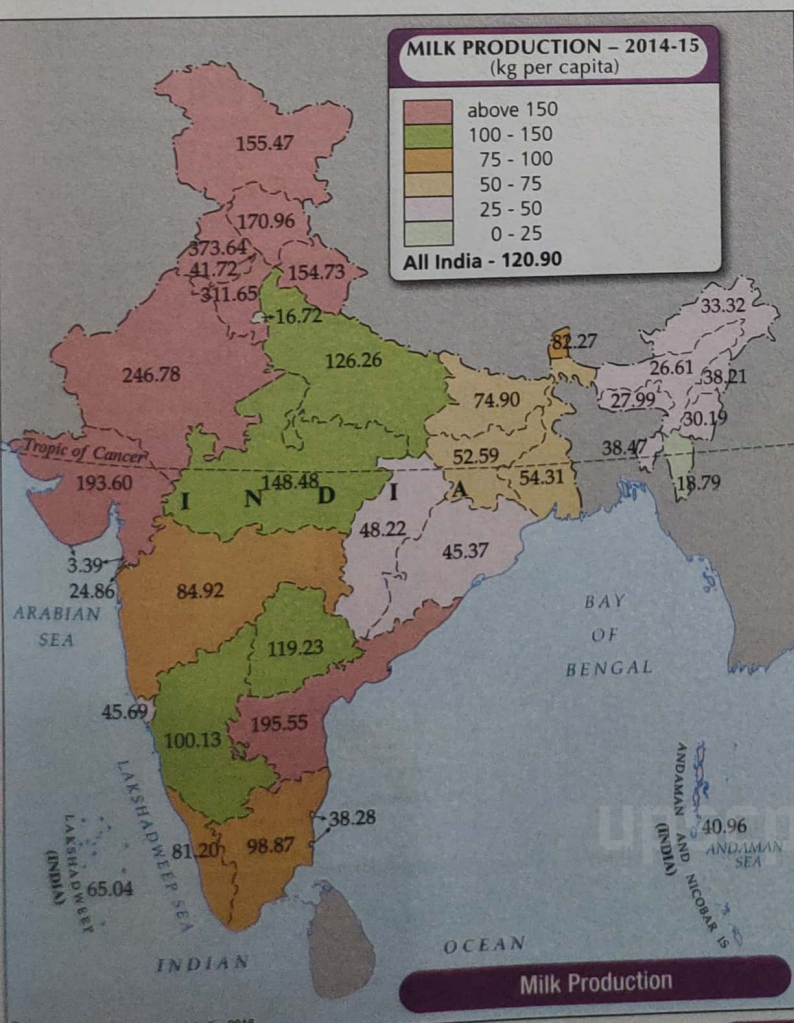
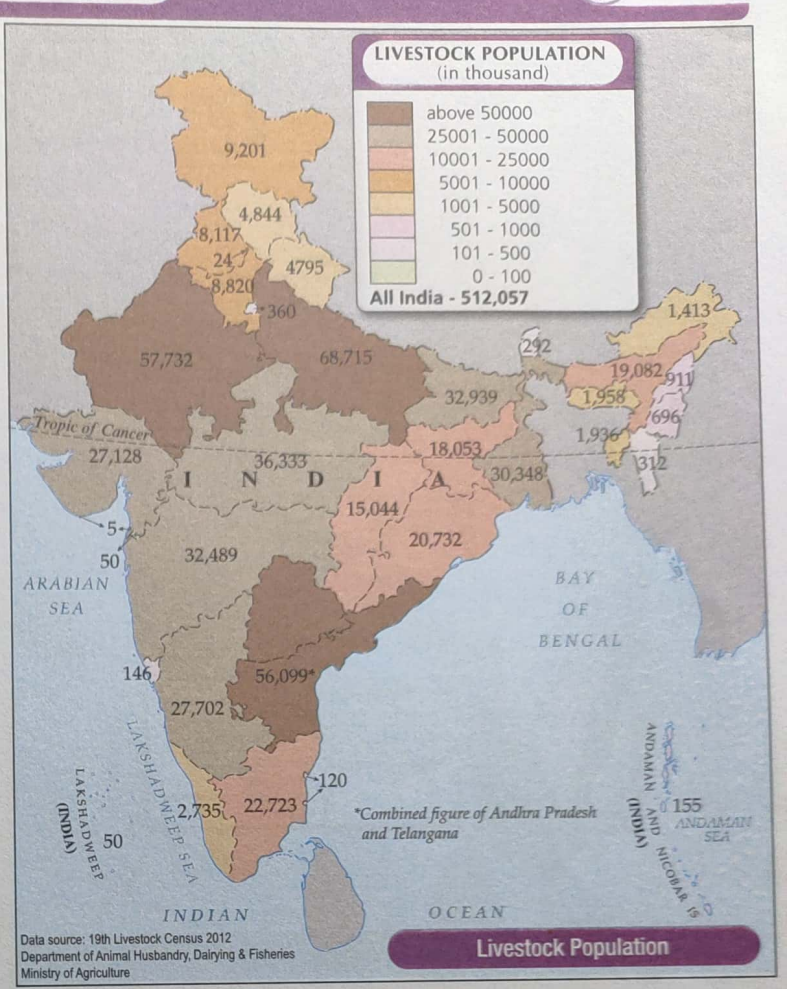
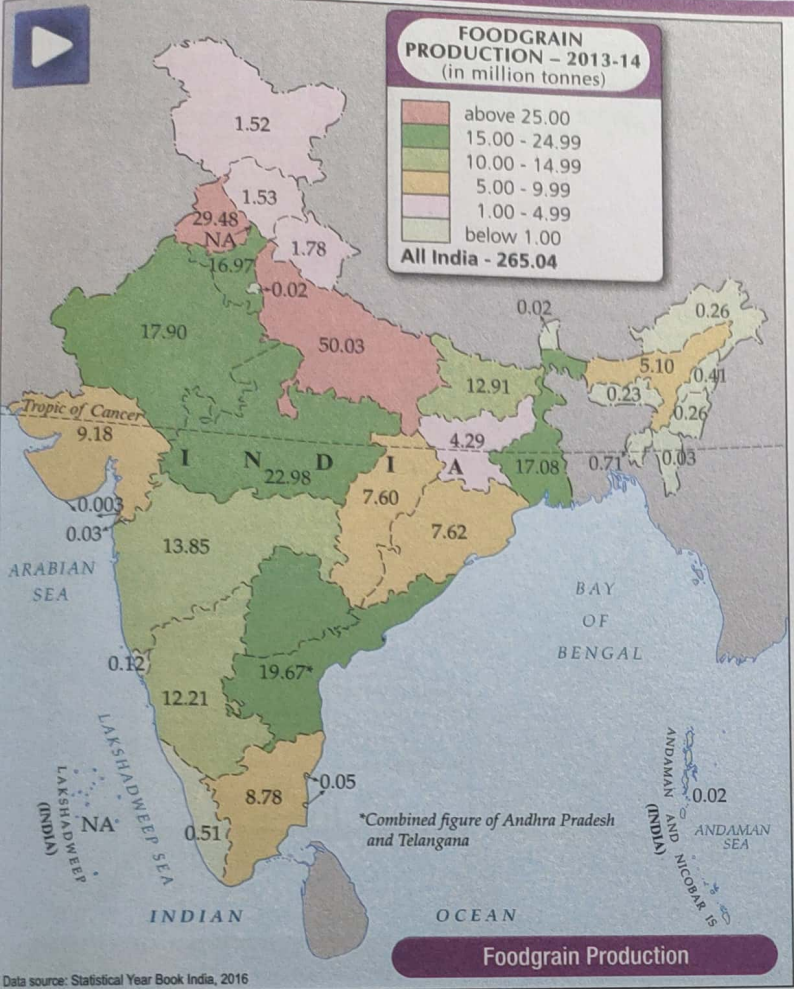
Zonal soils, formed under conditions of good soil drainage through the prolonged action of climate and vegetation.

Intrazonal soils are simply those formed under conditions of very poor drainage.

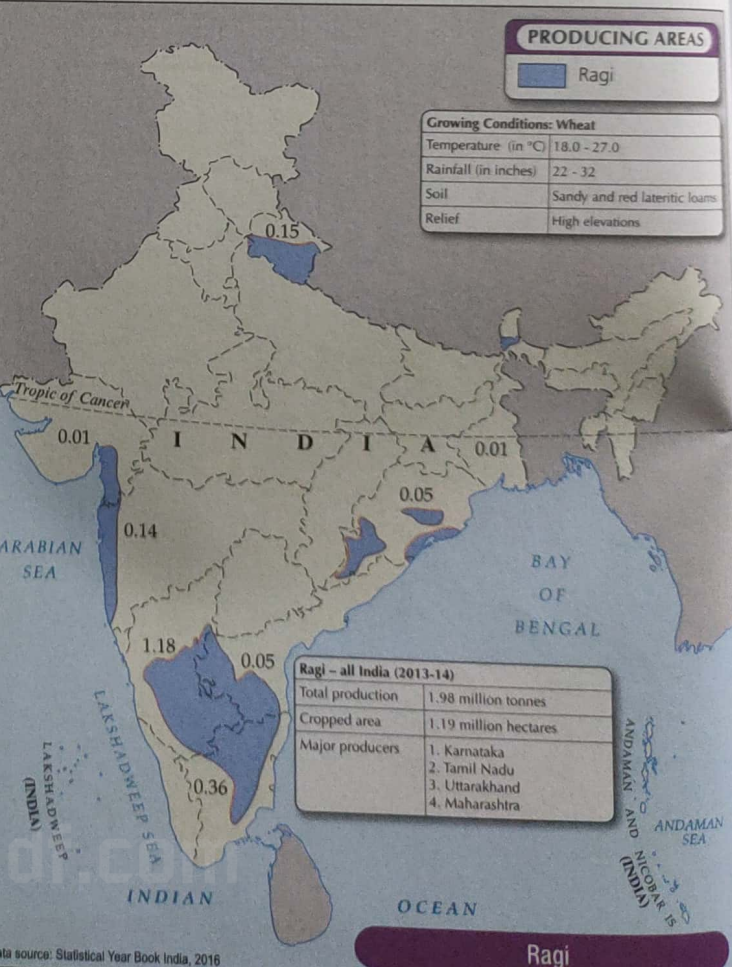
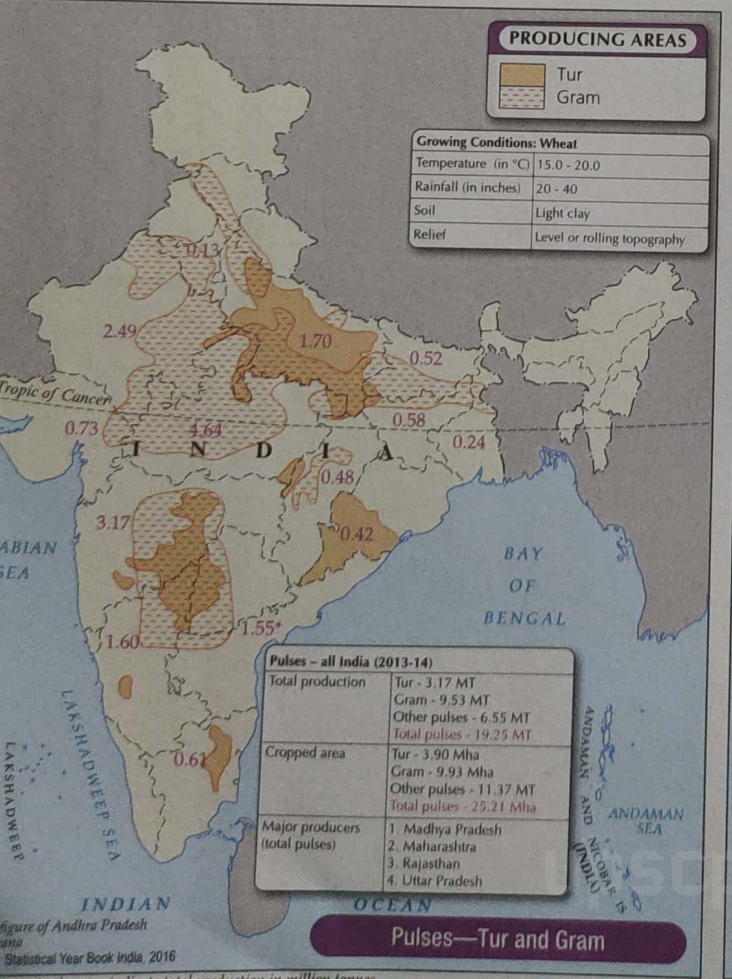
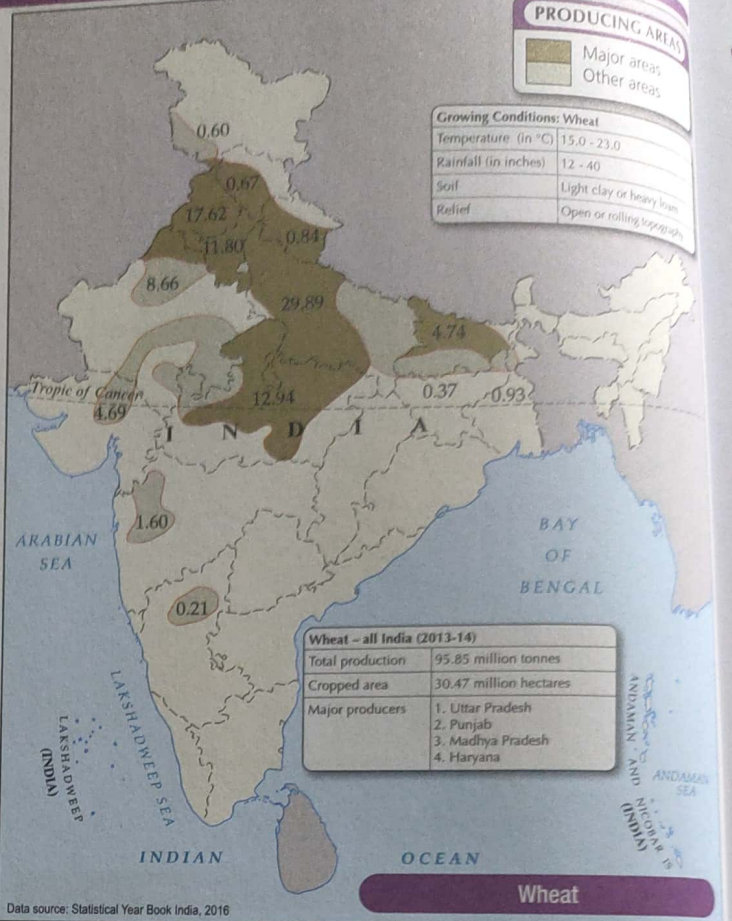
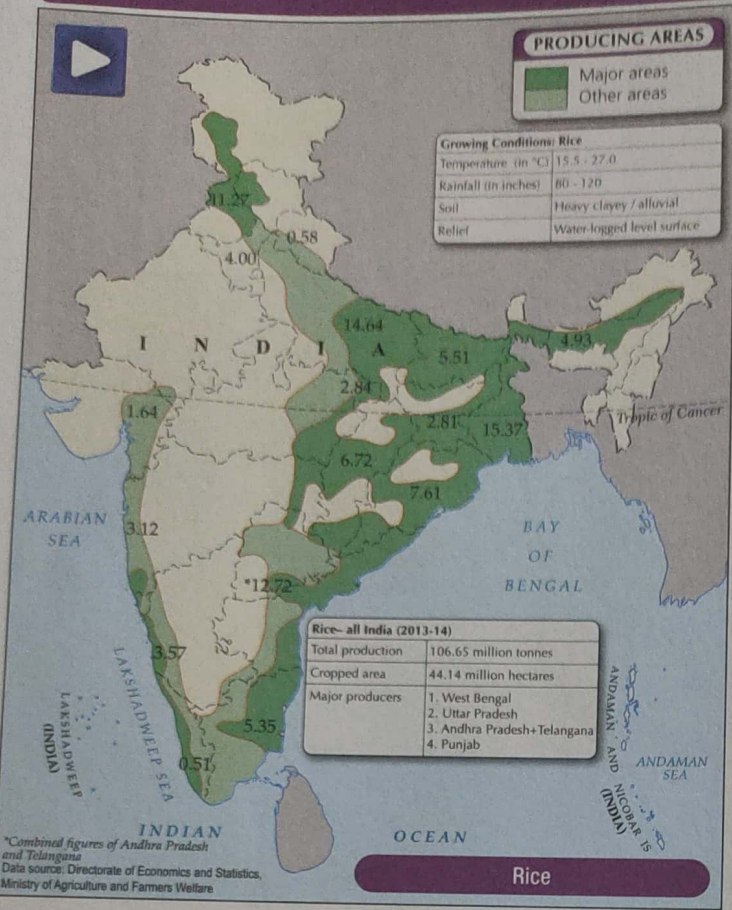
Azonal soils have no well-developed profile characteristics, either because they have had insufficient time to develop or because they are on slopes too steep to allow profile development.



Production and Fisheries

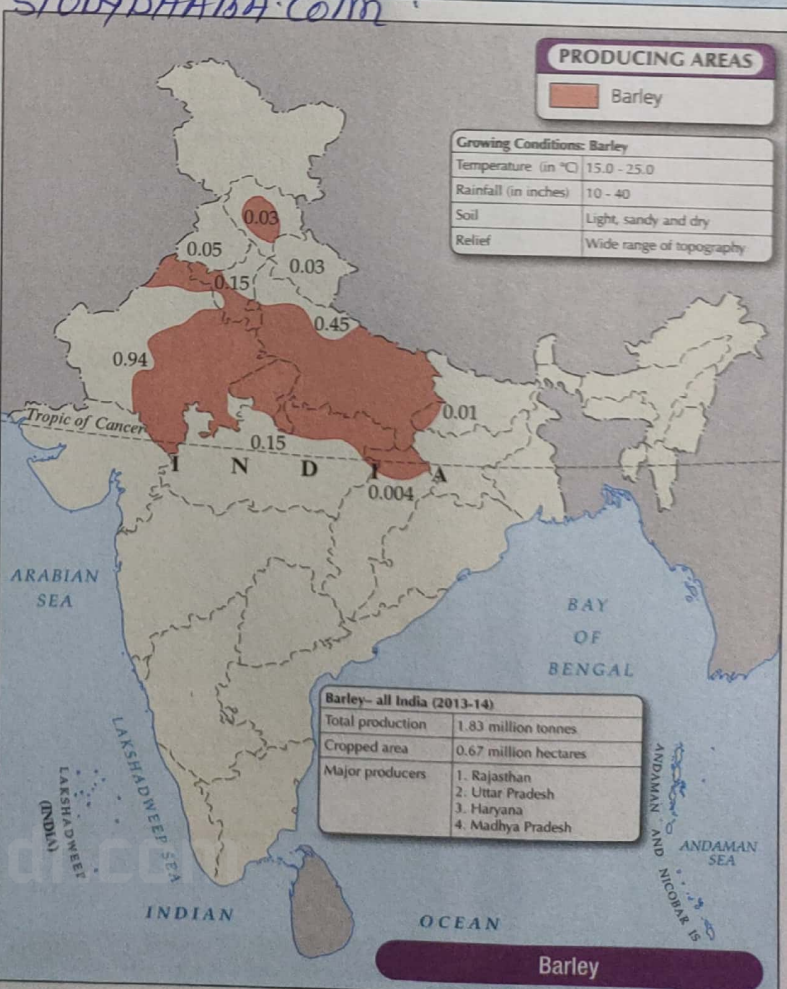
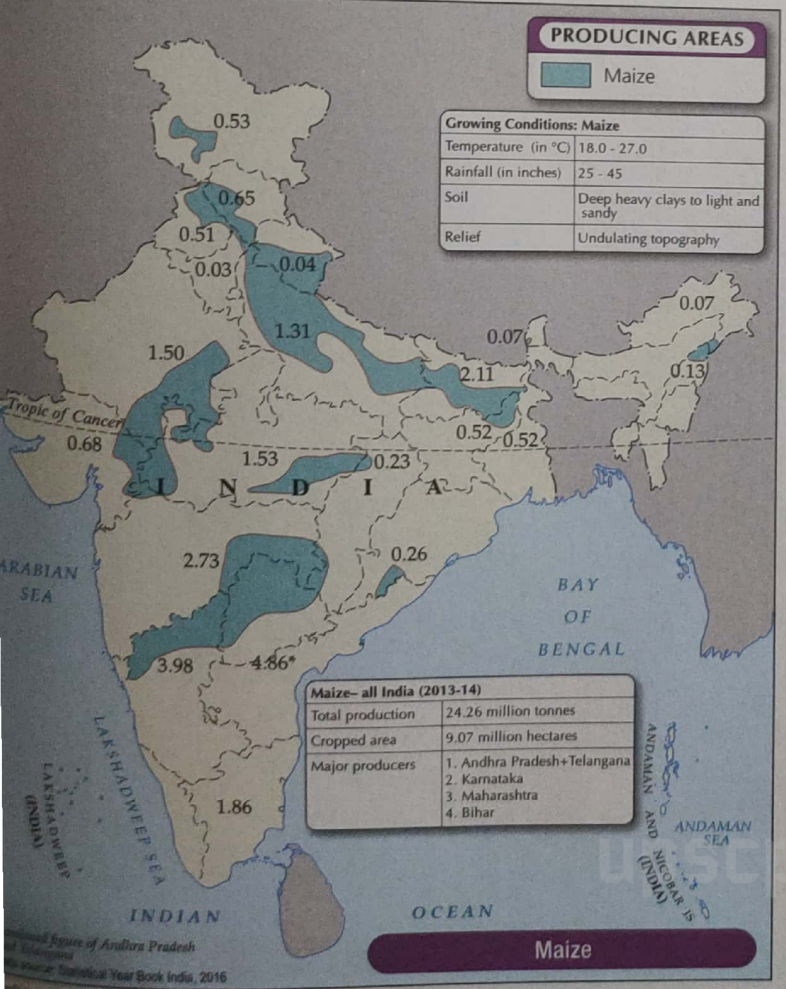
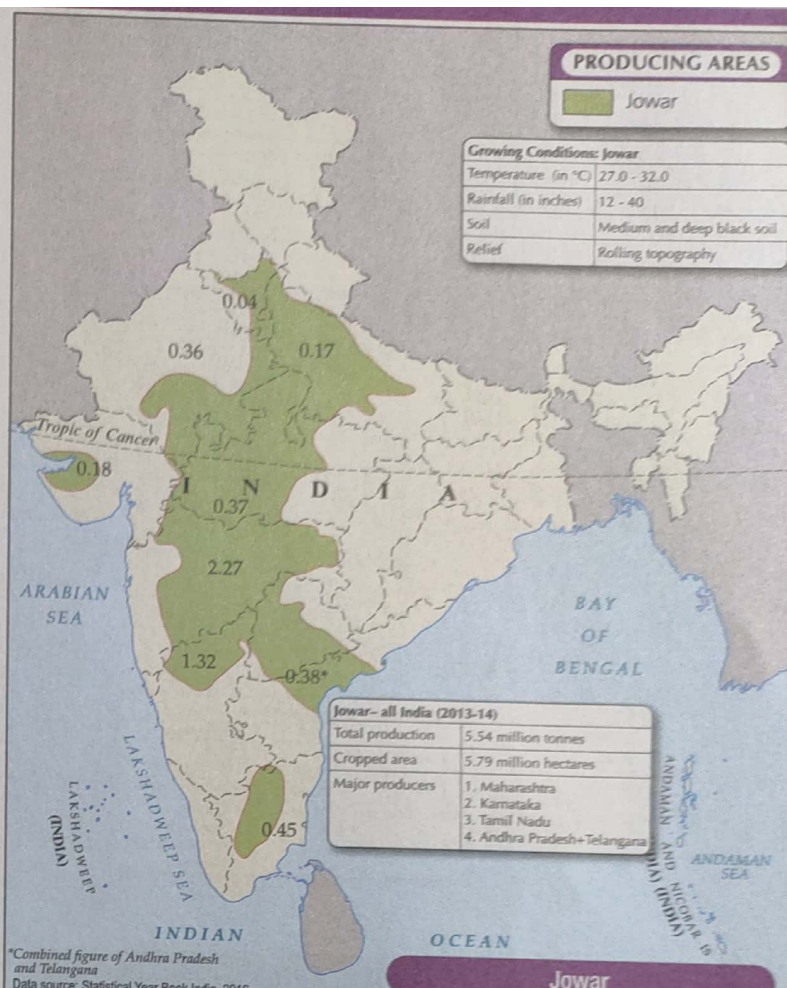
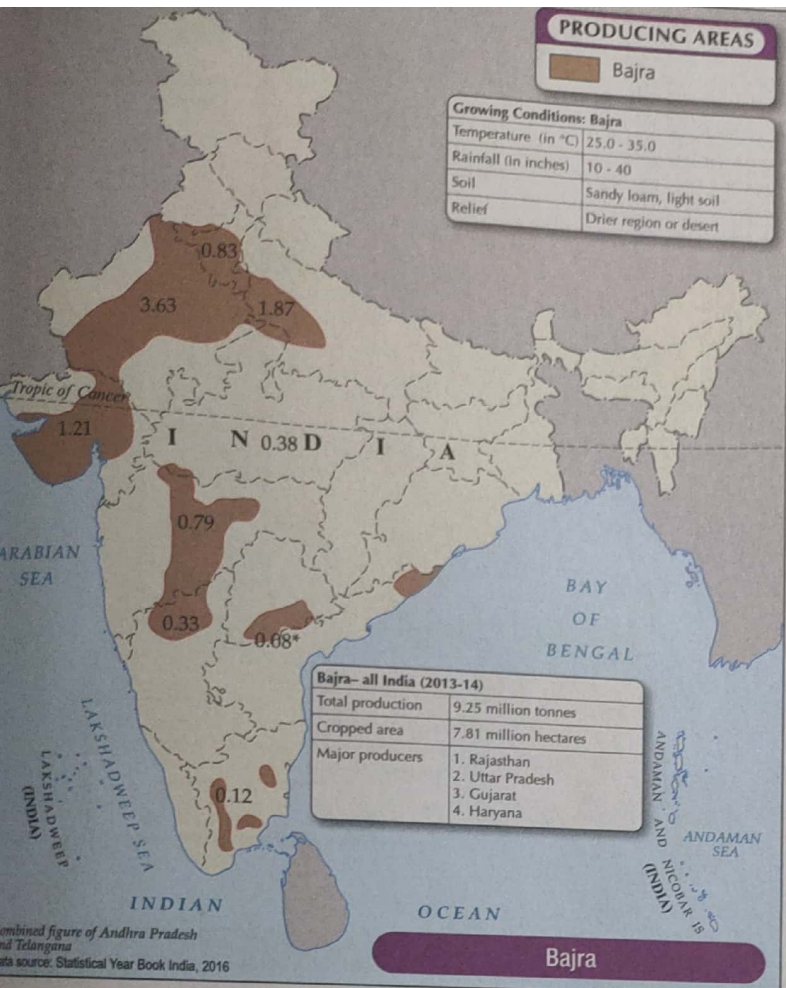


SCALE 1:30 500 000



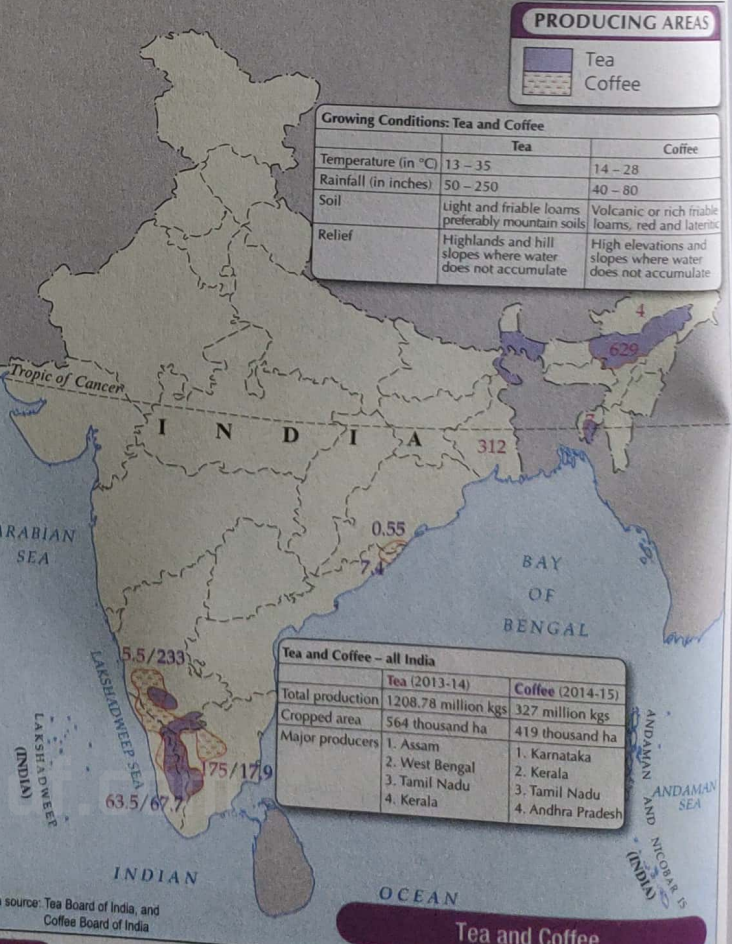
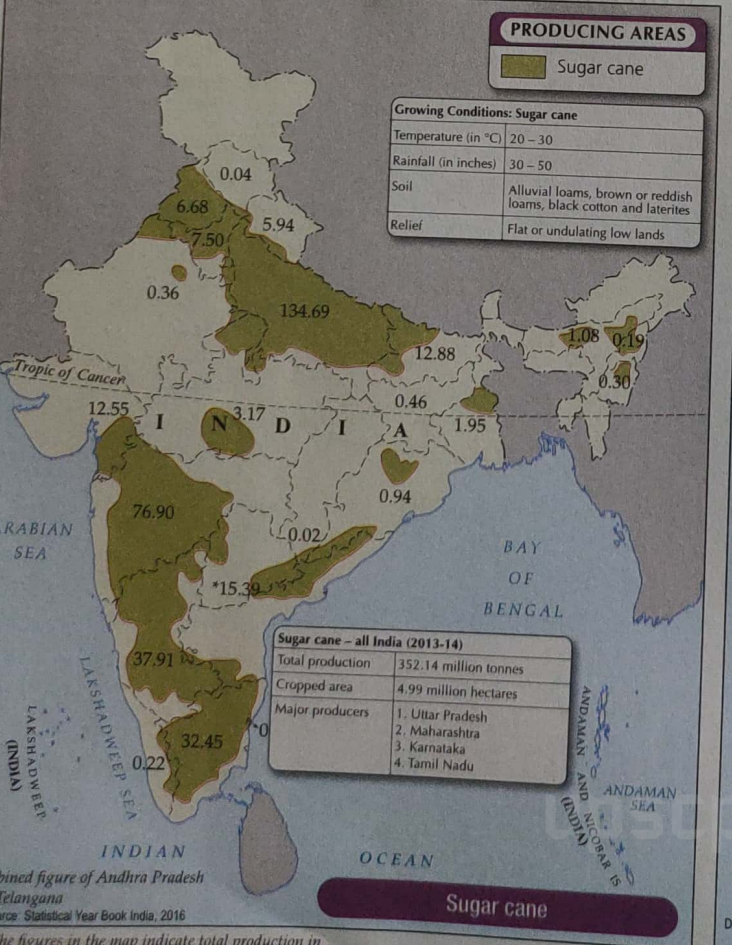
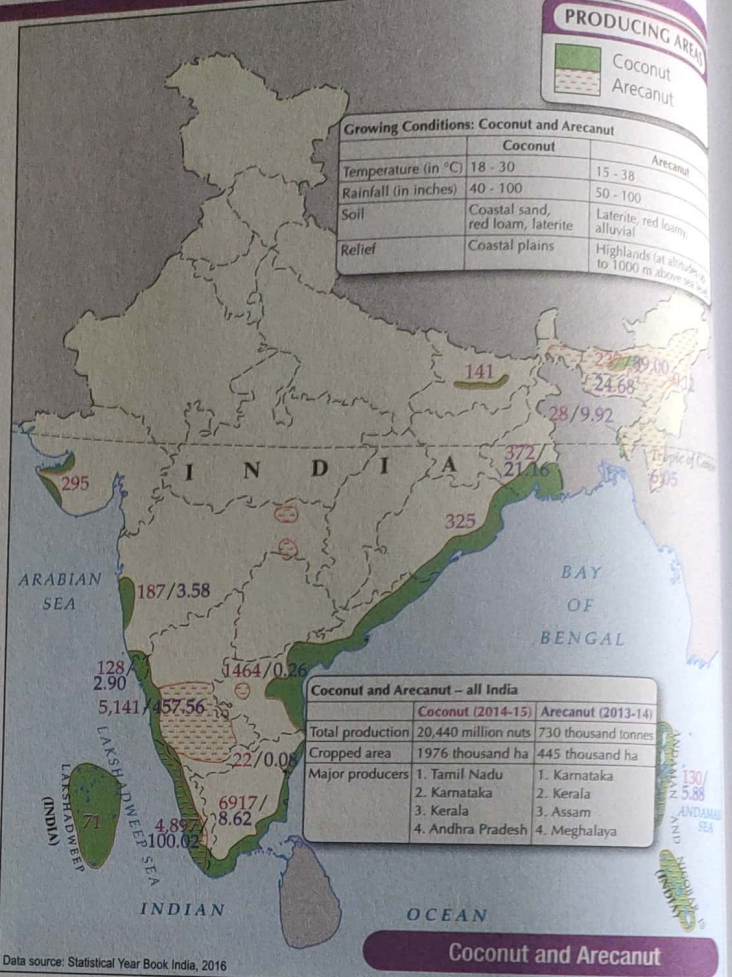
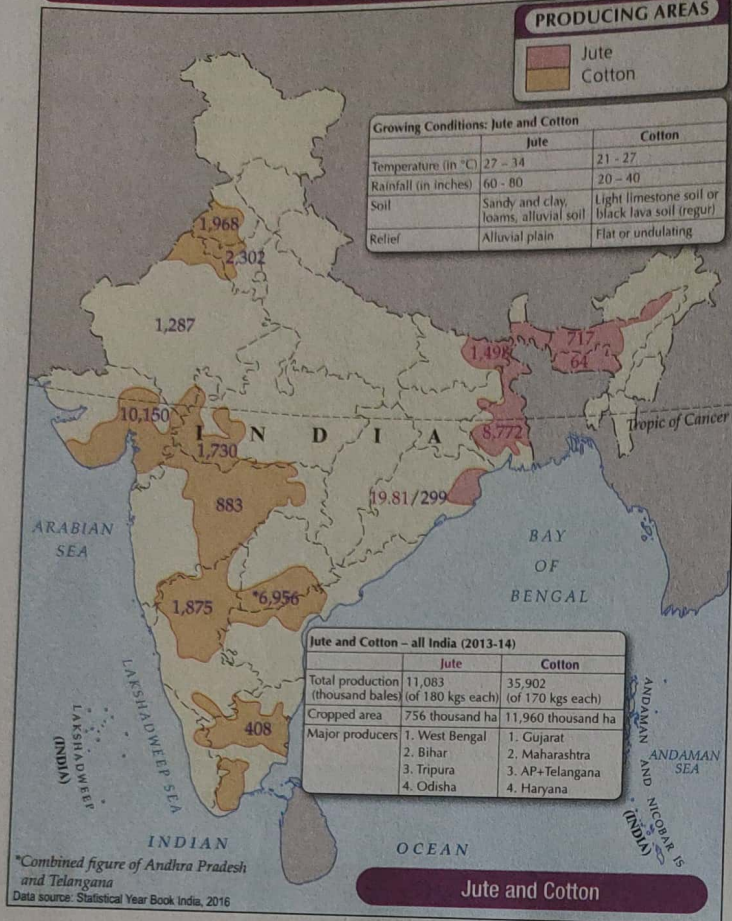
SCALE 1:30 500 000

Lambert Conical Orthomorphic Projection



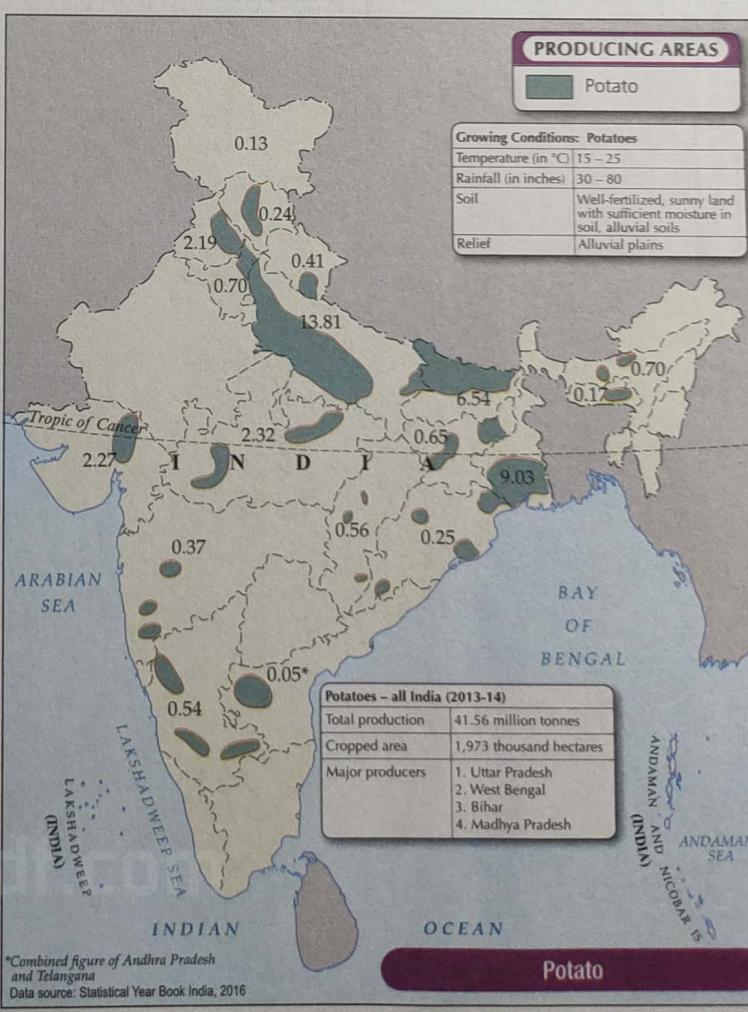
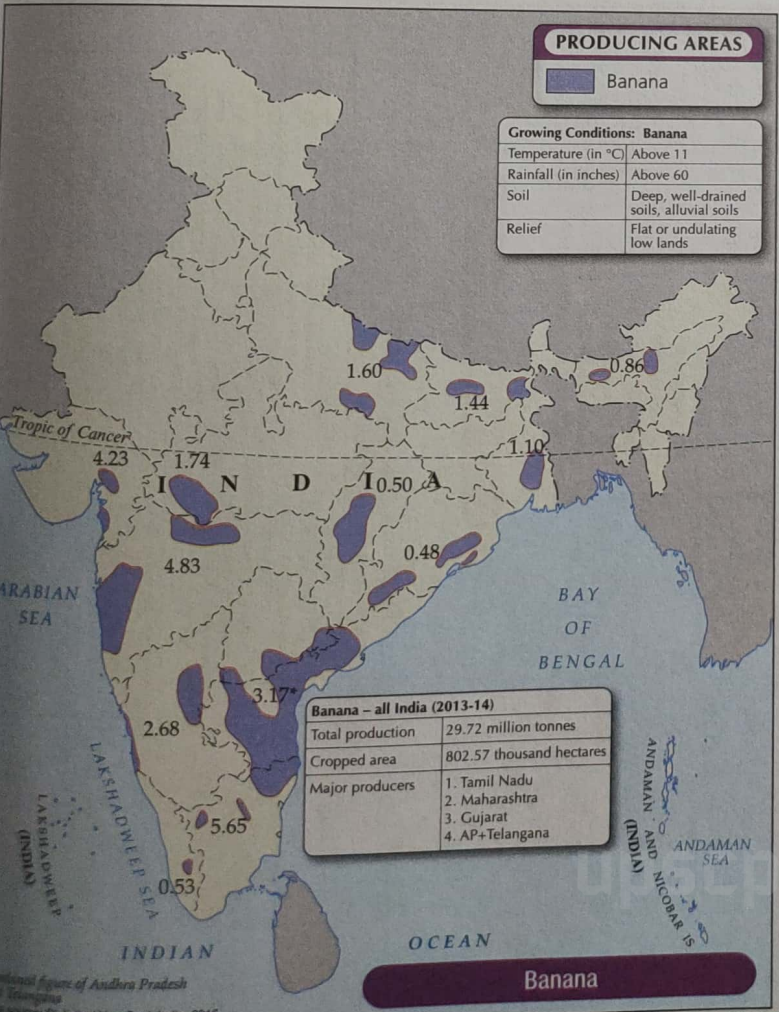
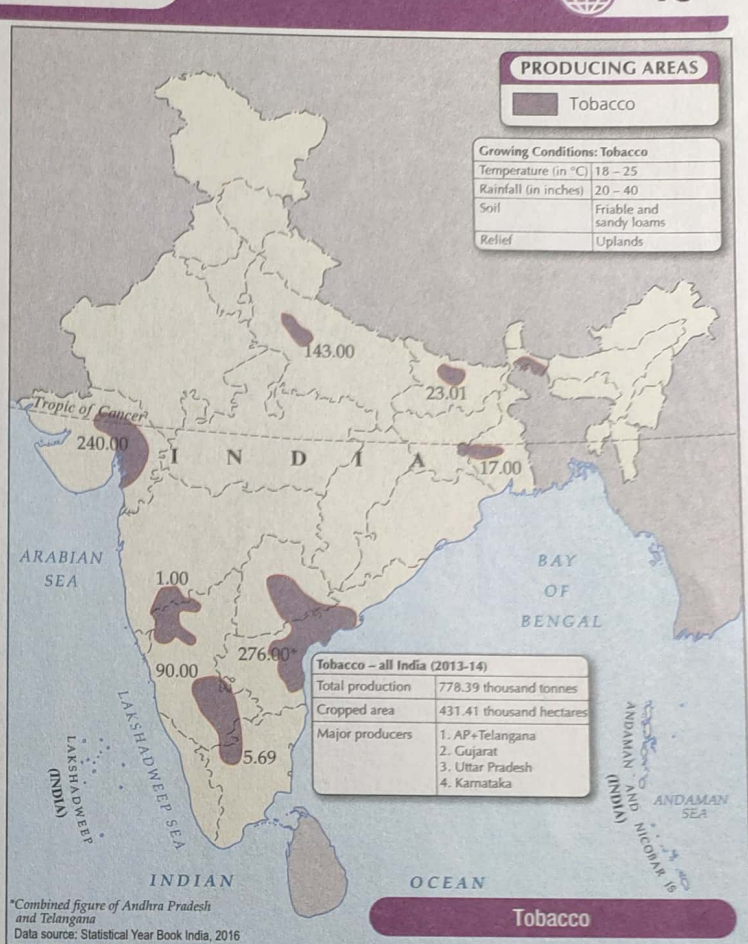
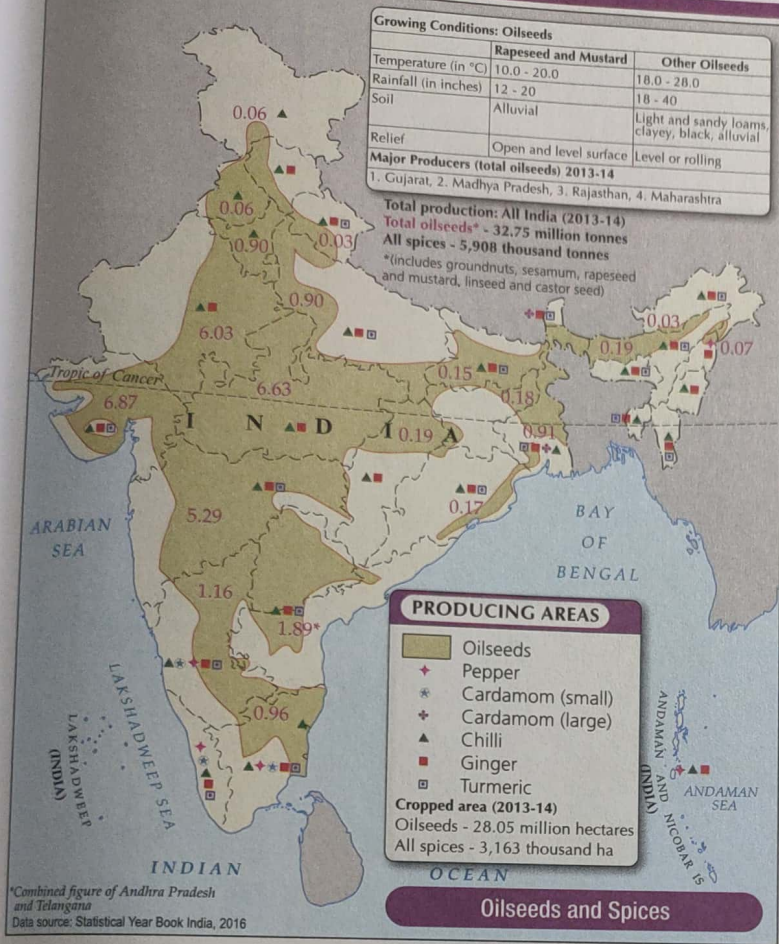
SCALE 1:30 500 000

Note: The figures in the map indicate total production in million tonnes in the respective state/union territory in 2013-14.



SCALE 1:30 500 000

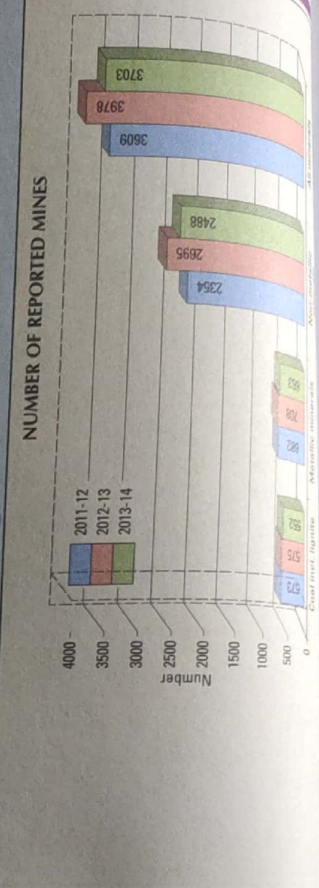
Lambert Conical Orthomorphic Projection



SCALE 1:30 500 000

Note: The figures in the map indicate total production in the respective state/union territory in 2013-14

Important Mineral Belts and Number of Reported Mines

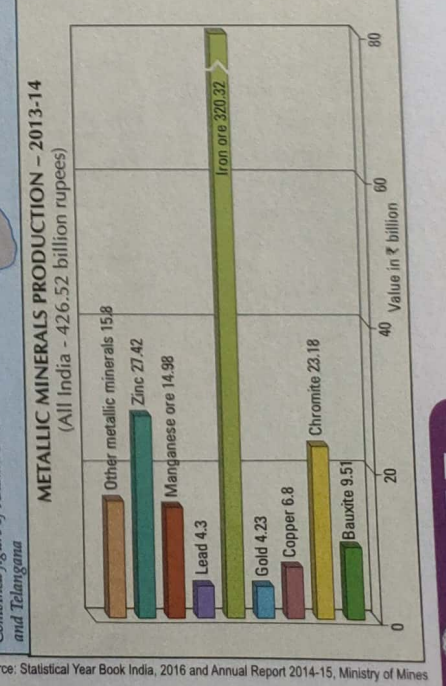
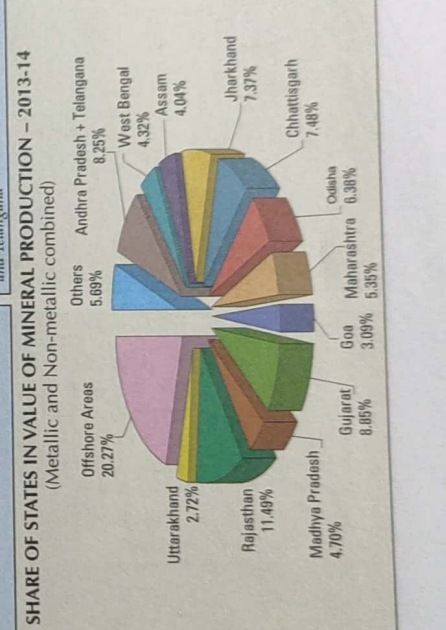
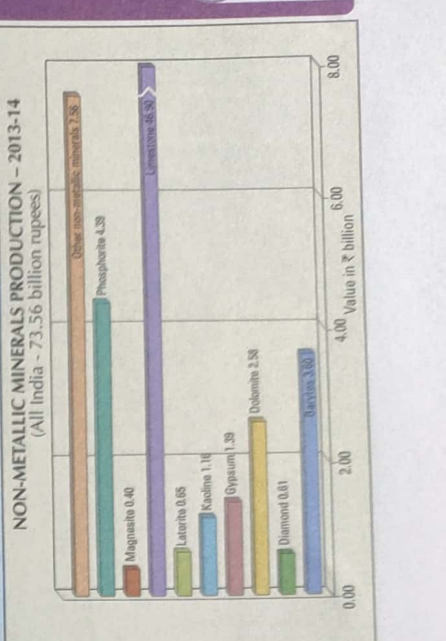
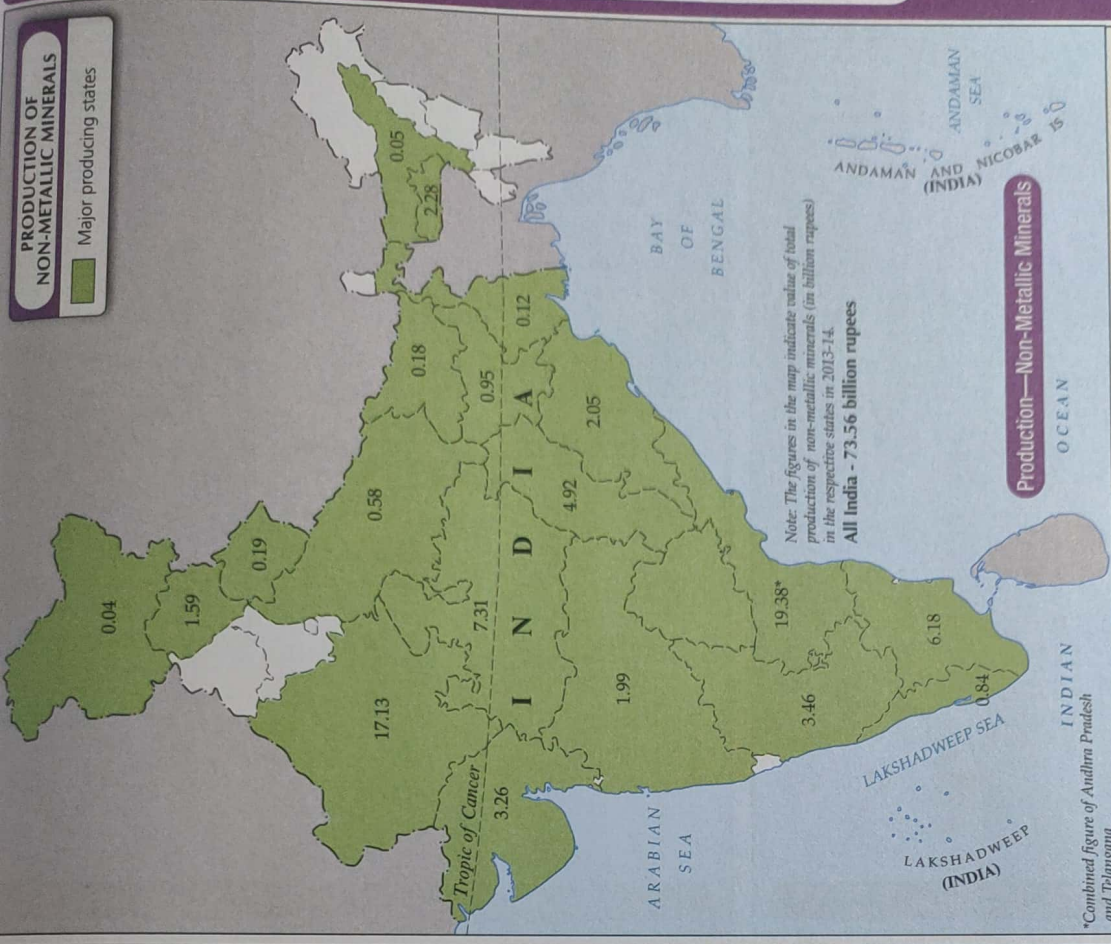


No.	Belt	Stretch	Important Deposits
1.	The North-eastern Peninsular Belt	Chota Nagpur and Odisha Plateaus in the states of Jharkhand, Chhattisgarh, Odisha, Bihar and West Bengal	Coal, iron ore, manganese, mica, bauxite, copper, kyanite, chromite, beryl, apatite, uranium phosphate, dolomite, china clay, limestone, fire clay and asbestos
2.	The Central Belt	Parts of Chhattisgarh, Madhya Pradesh, Andhra Pradesh and Maharashtra	Manganese ore, bauxite, limestone, copper, marble, lignite, coal, gems, mica, iron ore and graphite
3.	The Southern Belt	Stretches over the states of Andhra Pradesh, Karnataka and Tamil Nadu	Rich in ferrous minerals and others such as bauxite, lignite, gold, iron ore, chromite, mica, manganese, gypsum, asbestos, dolomite, china clay, limestone, etc.
4.	The Western Belt	Rajasthan, Gujarat and Maharashtra	Rich in non-ferrous metals such as copper, lead, zinc, uranium, mica, salt, manganese, asbestos, precious stones, mineral oil and natural gas
5.	The South-Western Belt	Goa, Karnataka and Kerala	Iron ore, garnet, clay, limonite, bauxite, mica, limestone, zircon, monazite sands, etc.
6.	The Himalayan Belt	The Himalayas	Copper, lead, nickel, bauxite, silver, gypsum, limestone, dolomite, etc.
7.	The Continental Shelf	Continental shelf of Arabian Sea and the Bay of Bengal	Mineral oil, natural gas, uranium, cobalt, etc. Chromium, molybdenum, aluminium, boron, etc.

SCALE 1:24 000 000

Lambert Conical Orthomorphic Projection

Production of Metallic and Non-Metallic Minerals



SCALE 1:24 000 000

Data source: Statistical Year Book India, 2016 and Annual Report 2014-15, Ministry of Mines

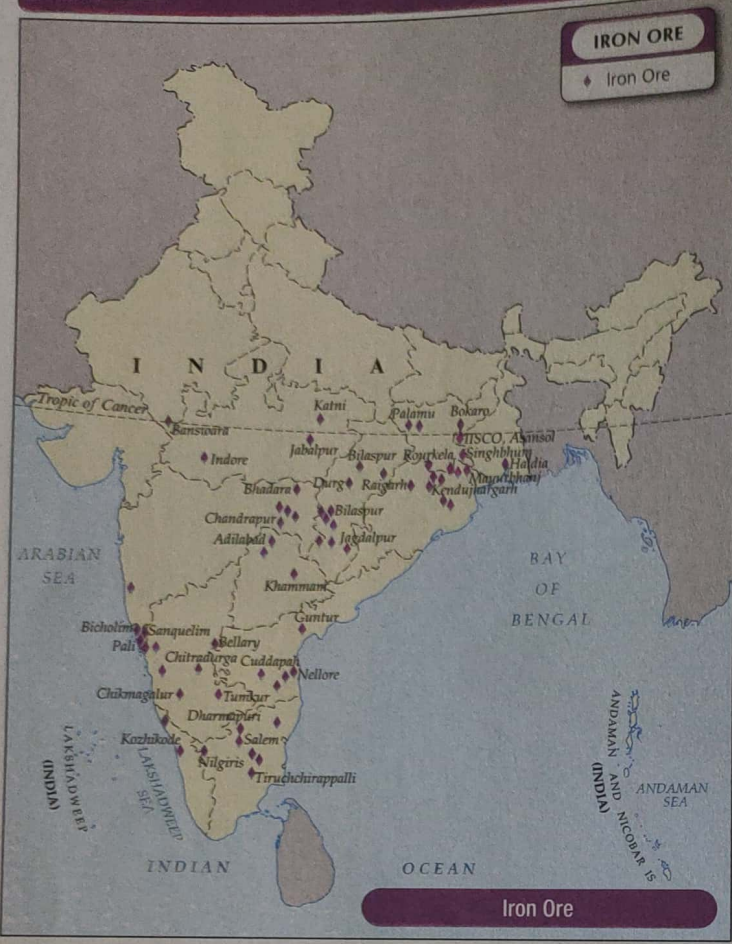


MANGANESE

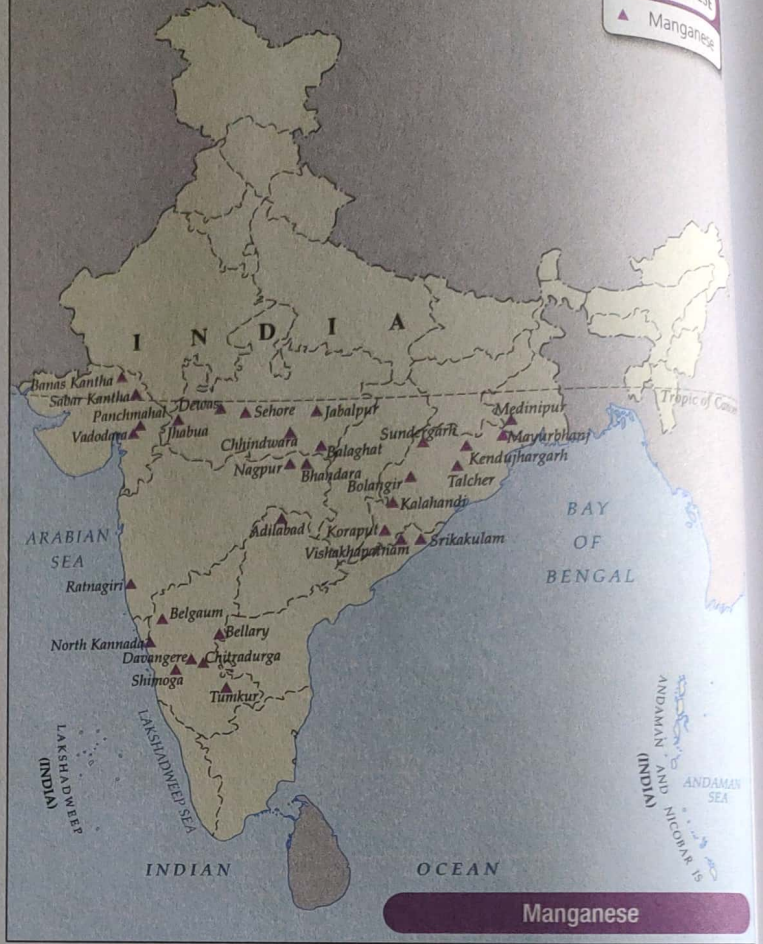
▲ Manganese

IRON ORE

◆ Iron Ore



Iron Ore



Manganese

BAUXITE

● Bauxite



Bauxite

METALLIC MINERALS

- Chromite
- ▲ Copper
- ★ Gold
- Lead & Zinc
- Silver
- Tungsten

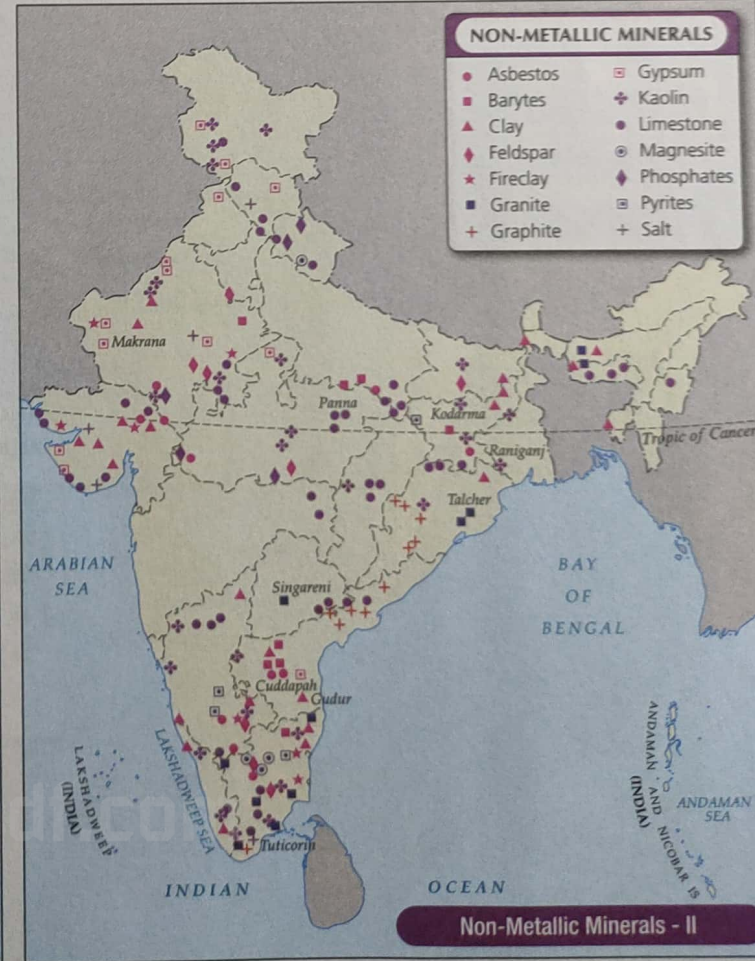
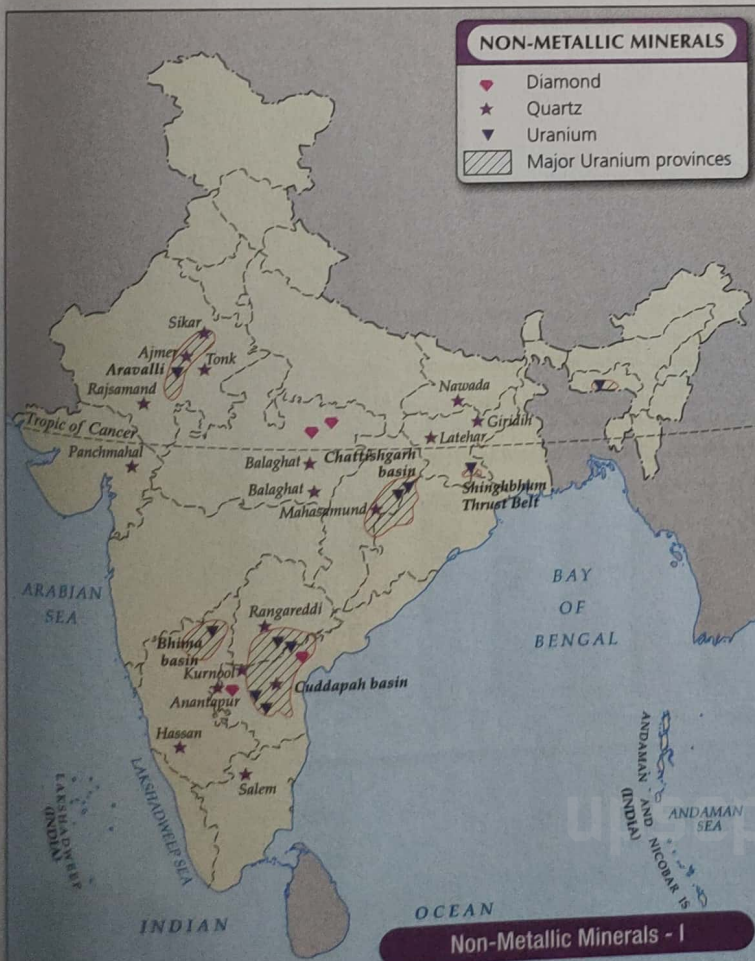
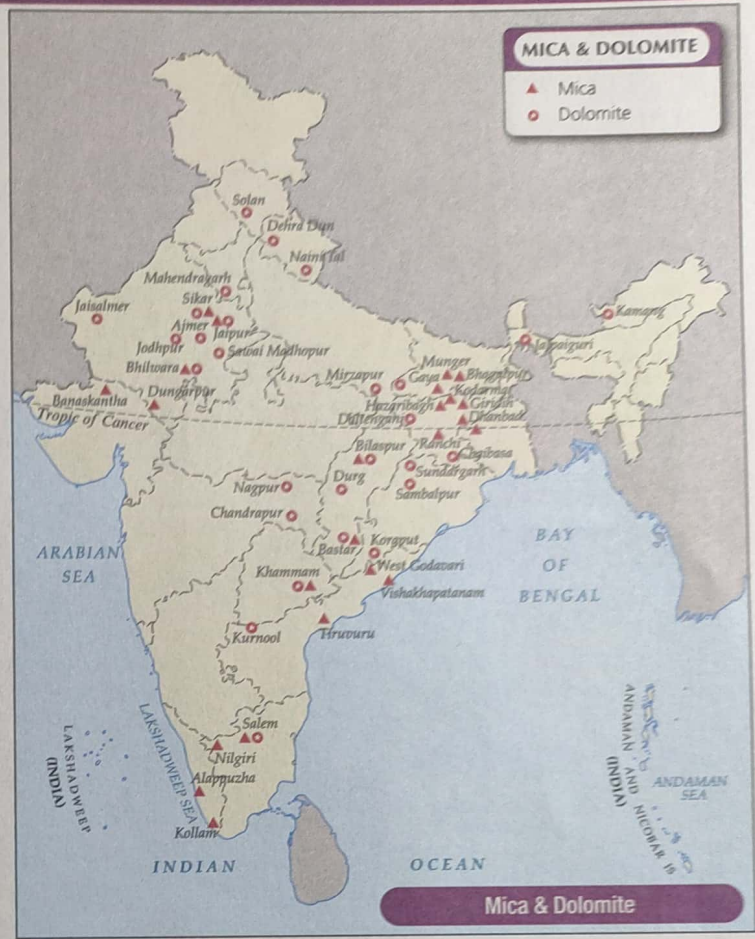
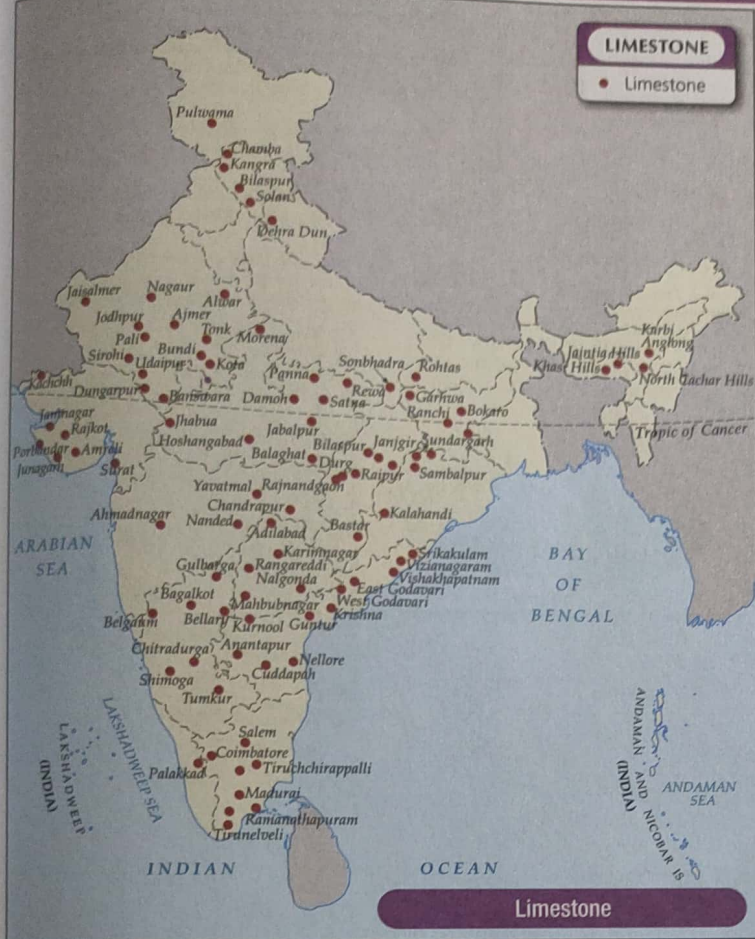


Other Metallic Minerals

SCALE 1:30 500 000

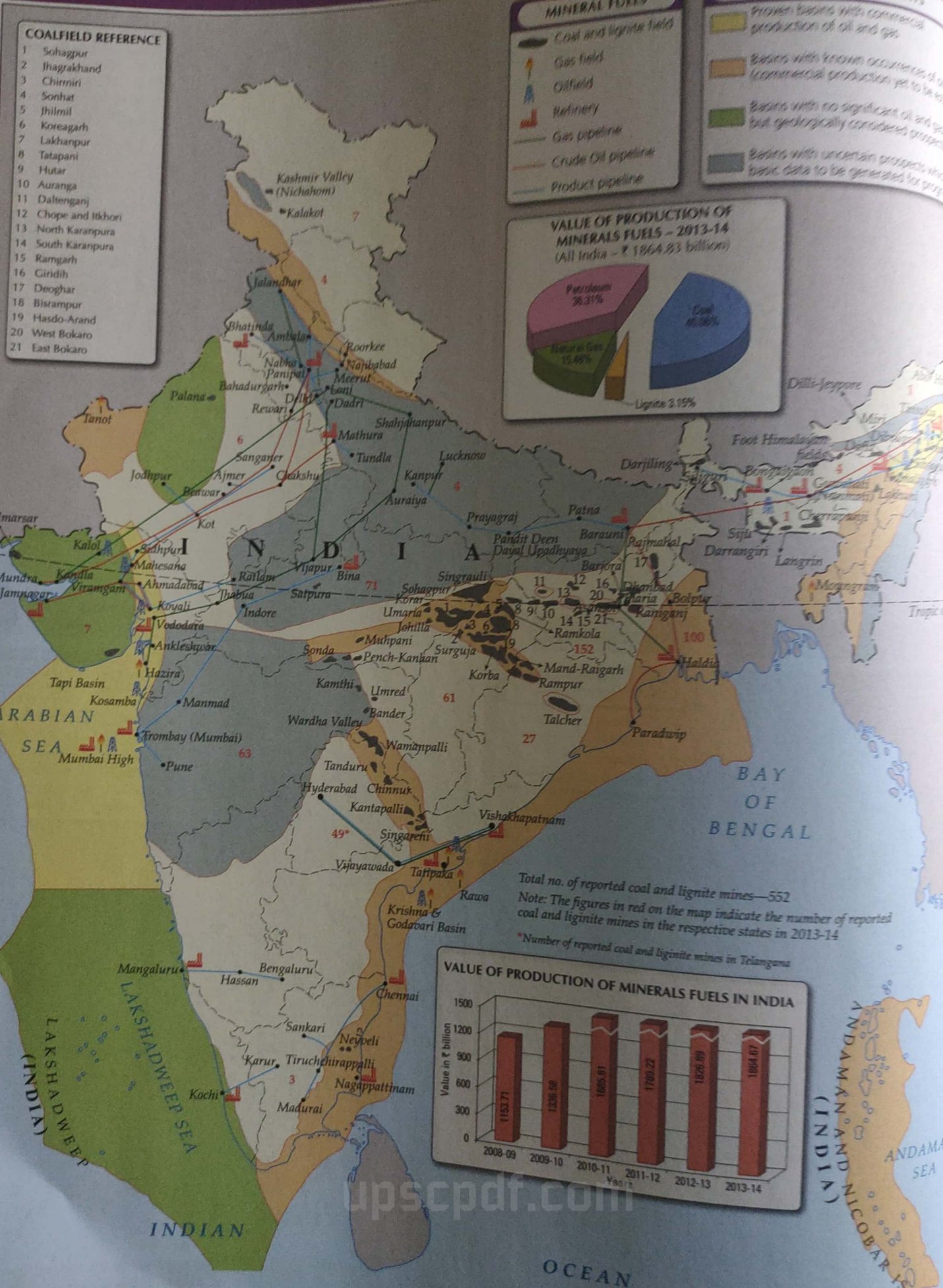
Lambert Conical Orthomorphic Projection

Non-Metallic Minerals

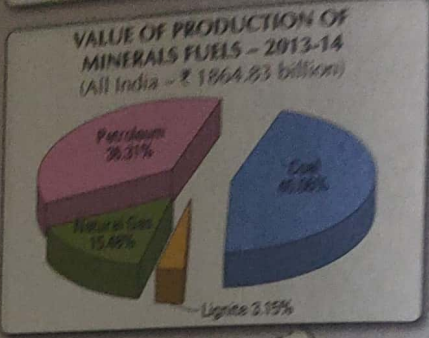


SCALE 1:30 500 000

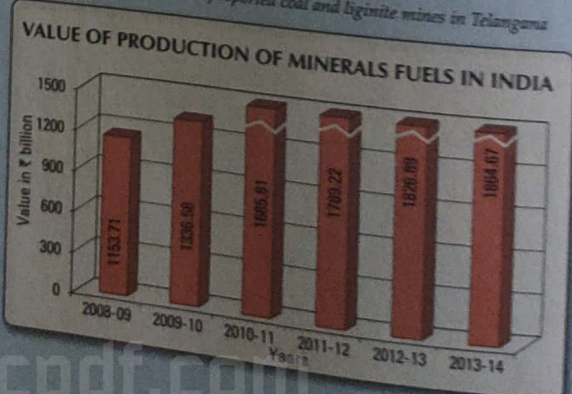
Lambert Conical Orthomorphic Projection



- COALFIELD REFERENCE**
- 1 Sohagpur
 - 2 Jhagrahand
 - 3 Chirmiri
 - 4 Sonhat
 - 5 Jhilmil
 - 6 Koreagarh
 - 7 Lakhampur
 - 8 Tatapani
 - 9 Hutar
 - 10 Auranga
 - 11 Daltenganj
 - 12 Choje and Itthori
 - 13 North Karanpura
 - 14 South Karanpura
 - 15 Ramgarh
 - 16 Giridih
 - 17 Deoghar
 - 18 Bisrampur
 - 19 Hasdo-Arand
 - 20 West Bokaro
 - 21 East Bokaro



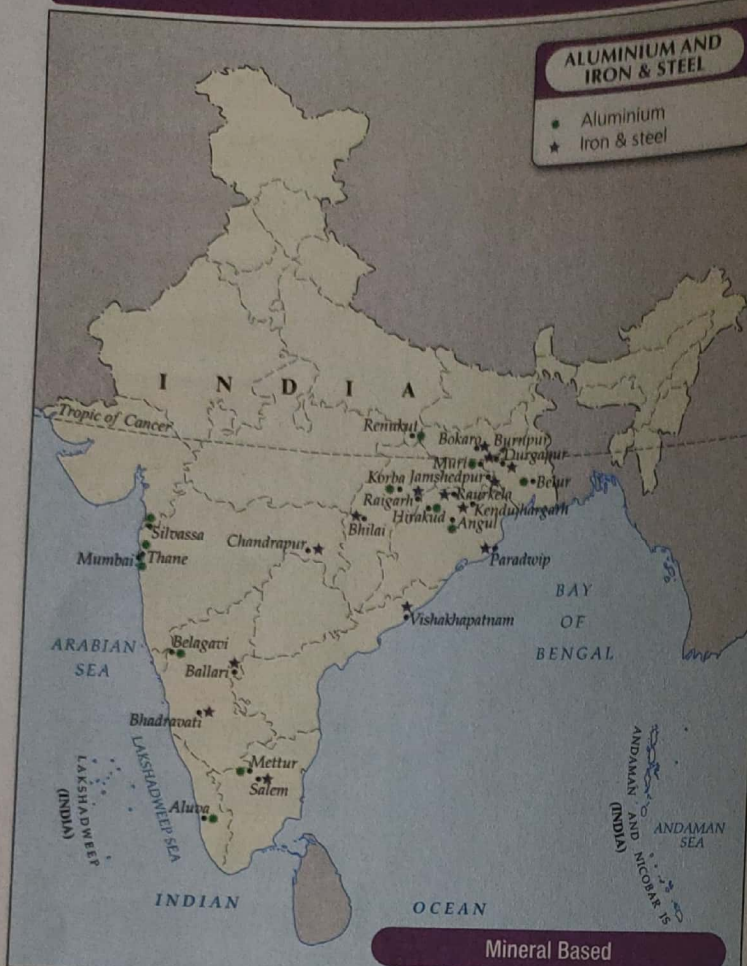
Total no. of reported coal and lignite mines—552
 Note: The figures in red on the map indicate the number of reported coal and lignite mines in the respective states in 2013-14
 *Number of reported coal and lignite mines in Telangana





ALUMINIUM AND IRON & STEEL

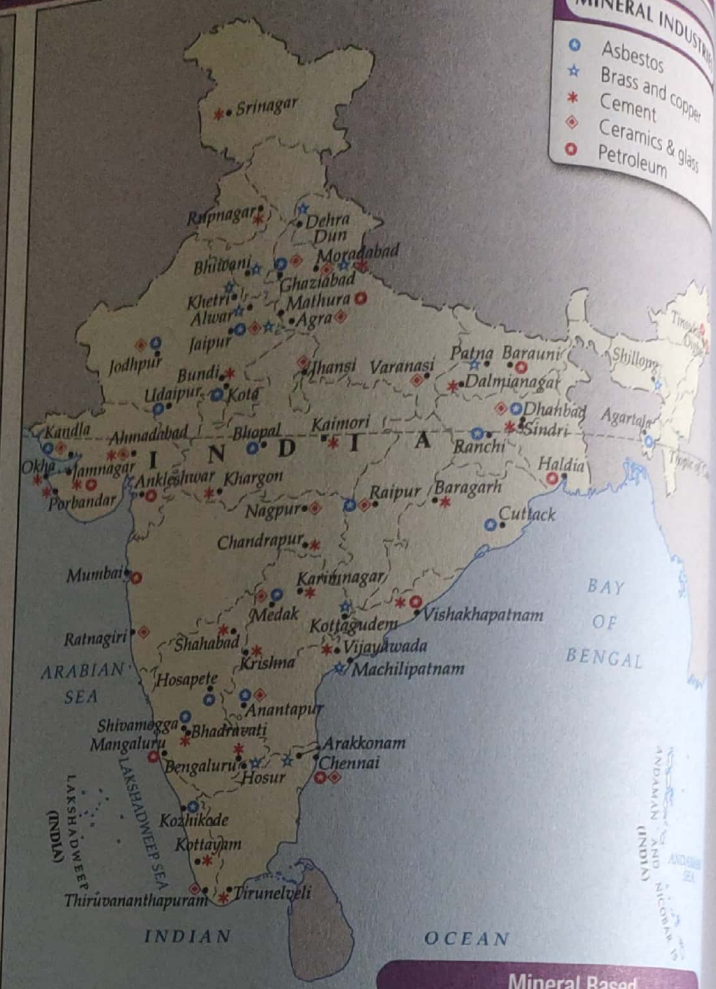
- Aluminium
- ★ Iron & steel



Mineral Based

MINERAL INDUSTRIES

- Asbestos
- ★ Brass and copper
- Cement
- Ceramics & Glass
- Petroleum



Mineral Based

TRANSPORTATION

- ✈ Aircraft
- 🚗 Automobile
- 🚂 Locomotive
- 🚢 Ship building



Engineering Sector

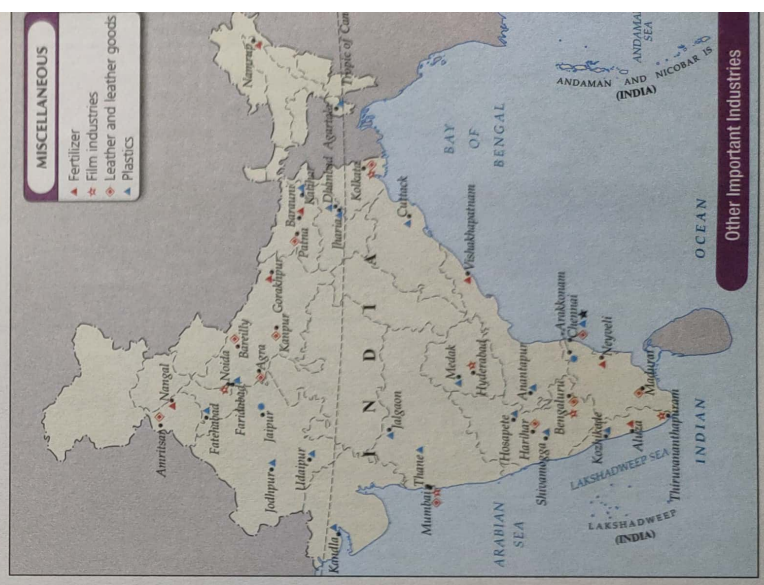
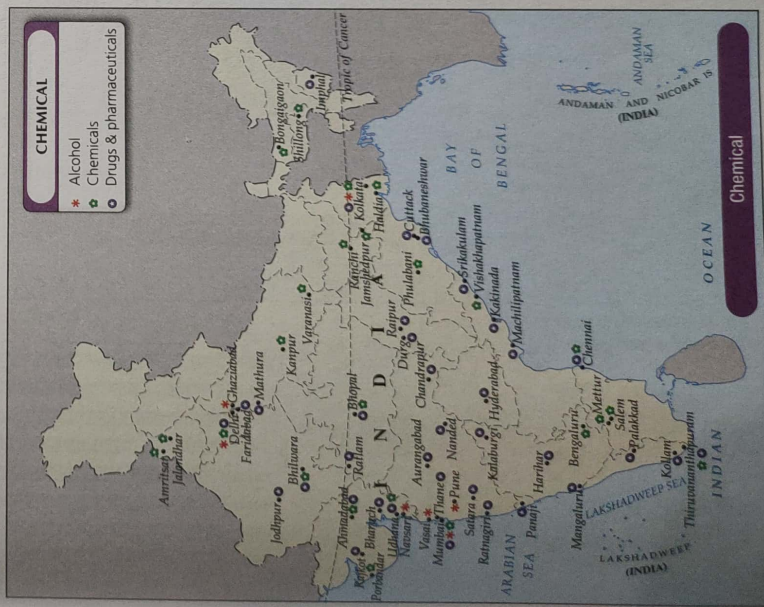
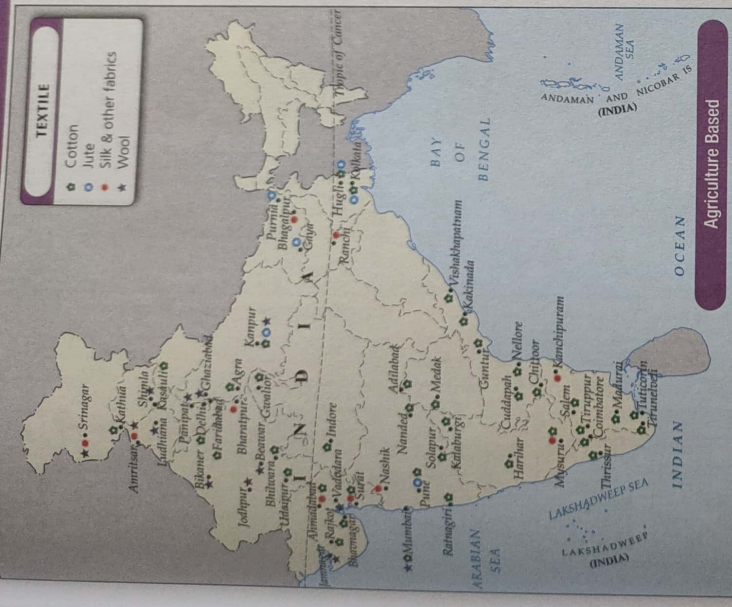
IT & OTHER ENGINEERING

- Cables and wires
- Electronics
- Electrical equipments
- IT industries & software technology parks
- Machinery
- ★ Machine tools & parts



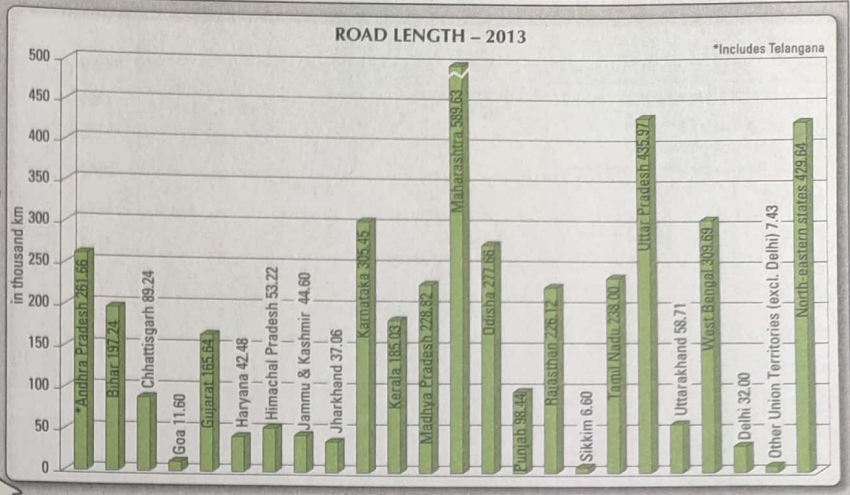
Engineering Sector

SCALE 1:30 500 000

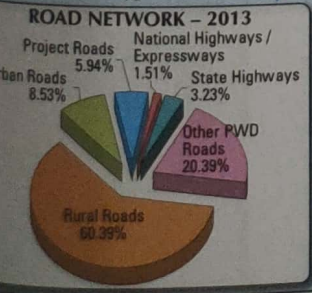
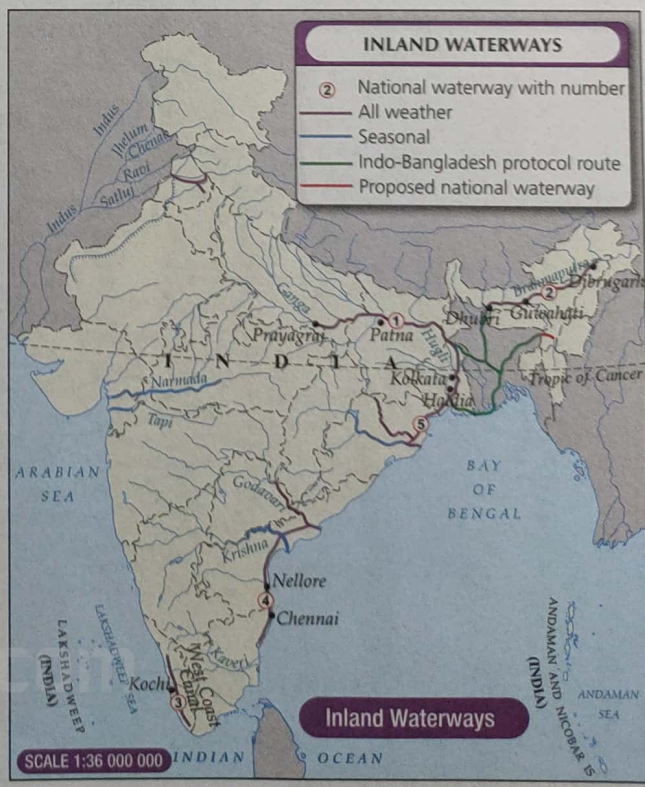


ROADS

- National highway with number
- Golden Quadrilateral
- North-South corridor
- East-West corridor
- Other road



Total length of Golden Quadrilateral - 5,846 km
 Total length of N-S and E-W corridors - 7,142 km



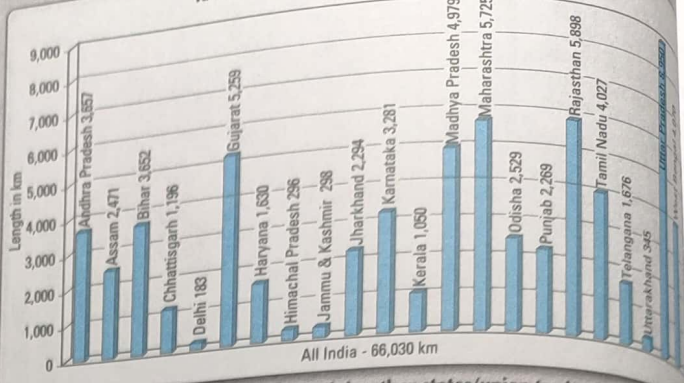
Data source: Statistical Year Book India 2016
 Ministry of Road Transport & Highways

SCALE 1:15 000 000

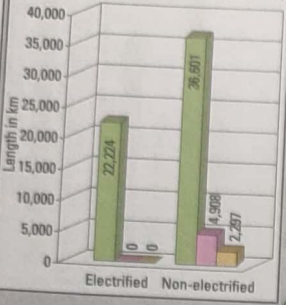
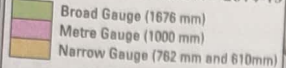
Universal Conical Orthomorphic Projection



RAILWAY ROUTE LENGTH (IN KM) - 2014-15

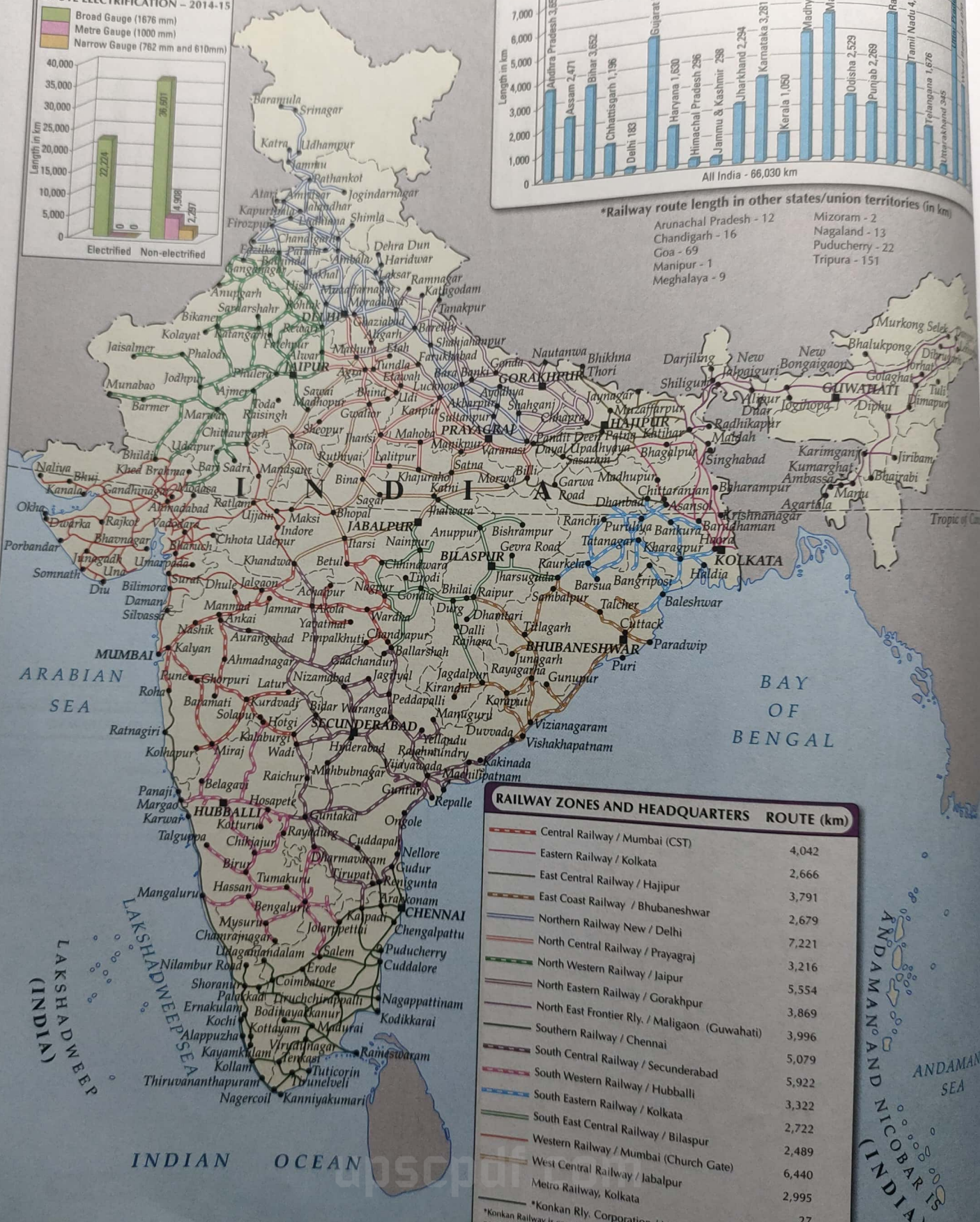


ROUTE ELECTRIFICATION - 2014-15



*Railway route length in other states/union territories (in km)

- Arunachal Pradesh - 12
- Chandigarh - 16
- Goa - 69
- Manipur - 1
- Meghalaya - 9
- Mizoram - 2
- Nagaland - 13
- Puducherry - 22
- Tripura - 151



RAILWAY ZONES AND HEADQUARTERS ROUTE (km)

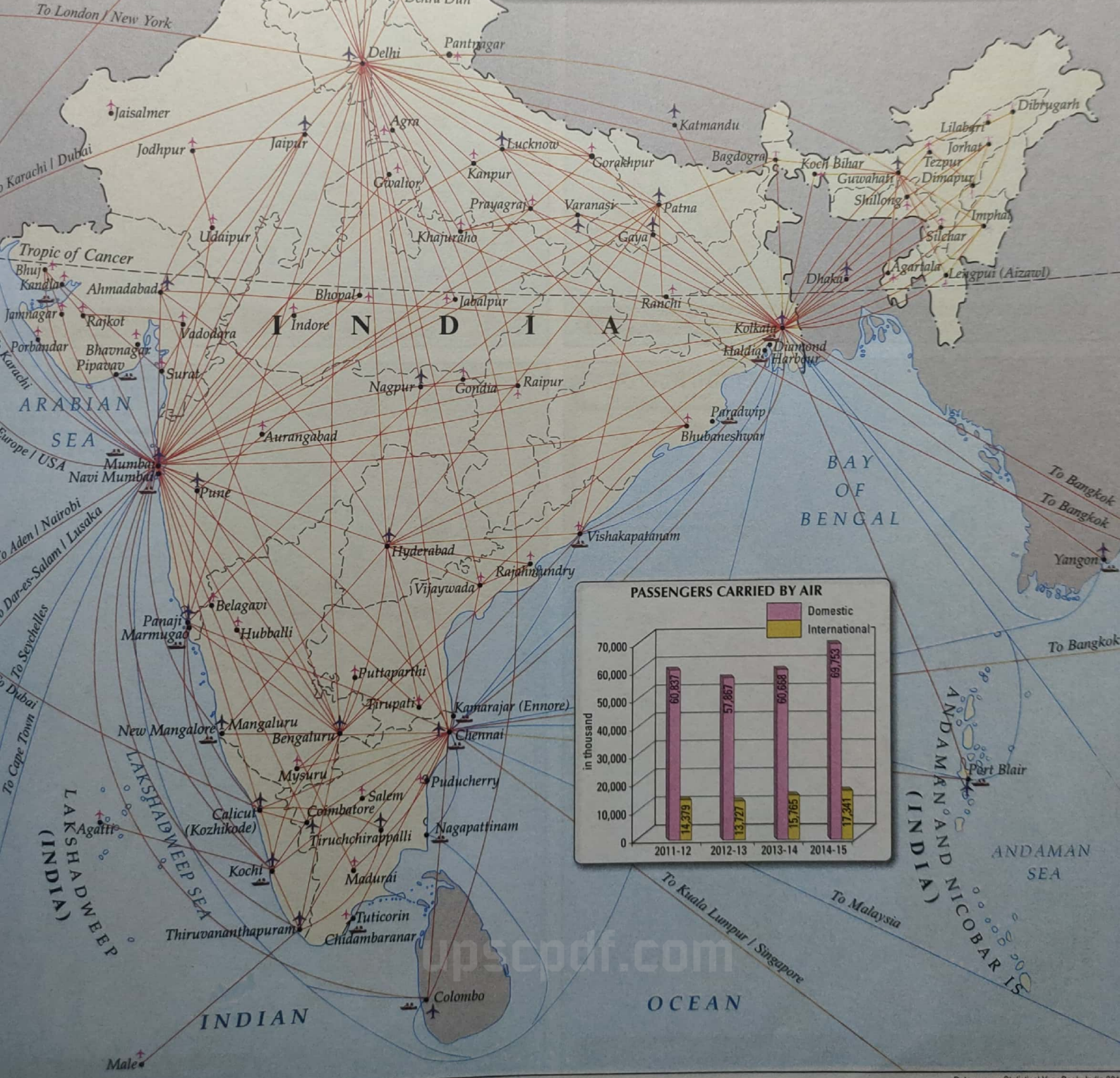
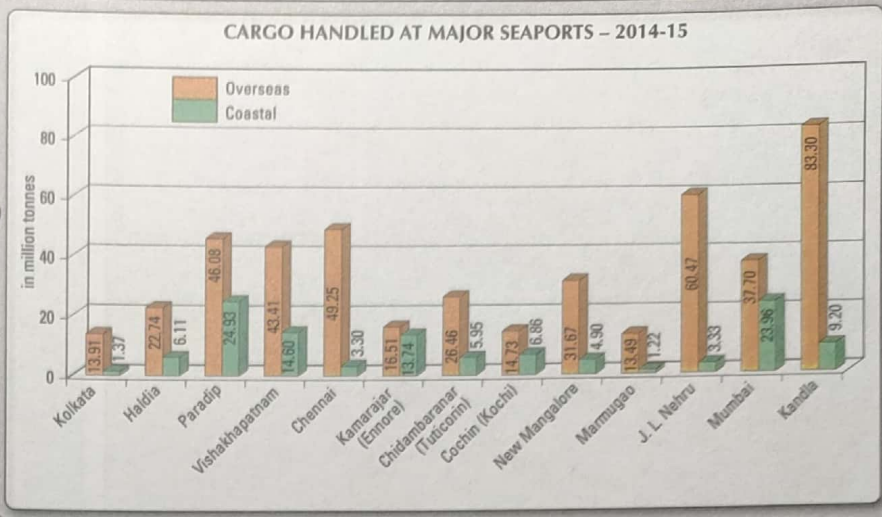
Central Railway / Mumbai (CST)	4,042
Eastern Railway / Kolkata	2,666
East Central Railway / Hajipur	3,791
East Coast Railway / Bhubaneswar	2,679
Northern Railway New / Delhi	7,221
North Central Railway / Prayagraj	3,216
North Western Railway / Jaipur	5,554
North Eastern Railway / Gorakhpur	3,869
Southern Railway / Chennai	3,996
South Central Railway / Secunderabad	5,079
South Western Railway / Hubballi	5,922
South Eastern Railway / Kolkata	3,322
South East Central Railway / Bilaspur	2,722
Western Railway / Mumbai (Church Gate)	2,489
West Central Railway / Jabalpur	6,440
Metro Railway, Kolkata	2,995
*Konkan Rly. Corporation / Navi Mumbai	27

Data source: Indian Railways Year Book, 2014-15

SCALE 1:15 000 000

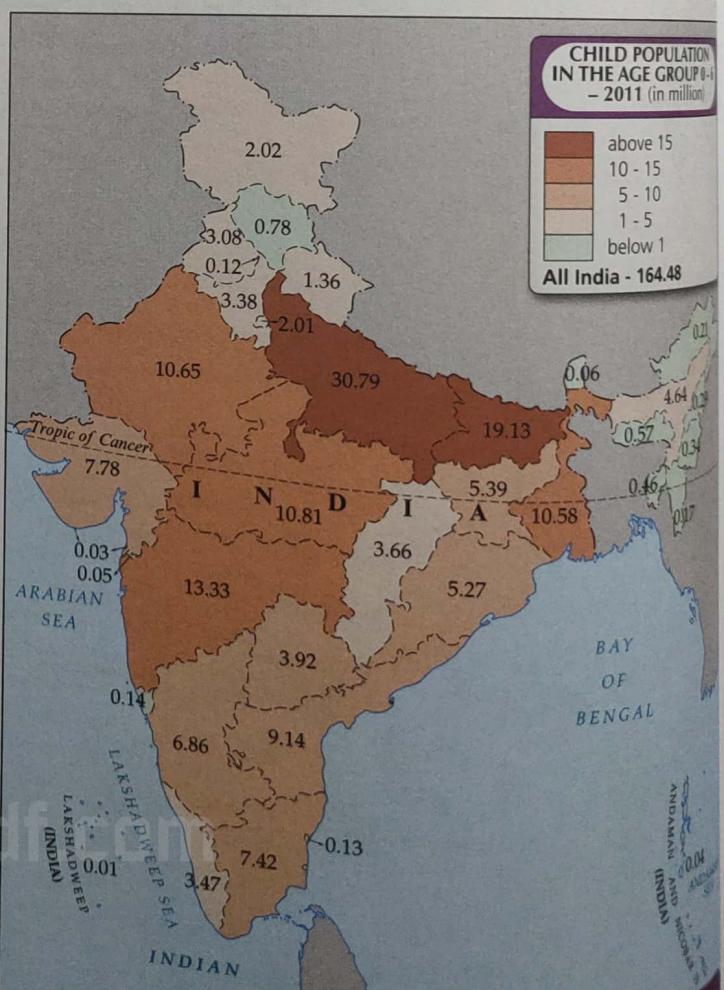
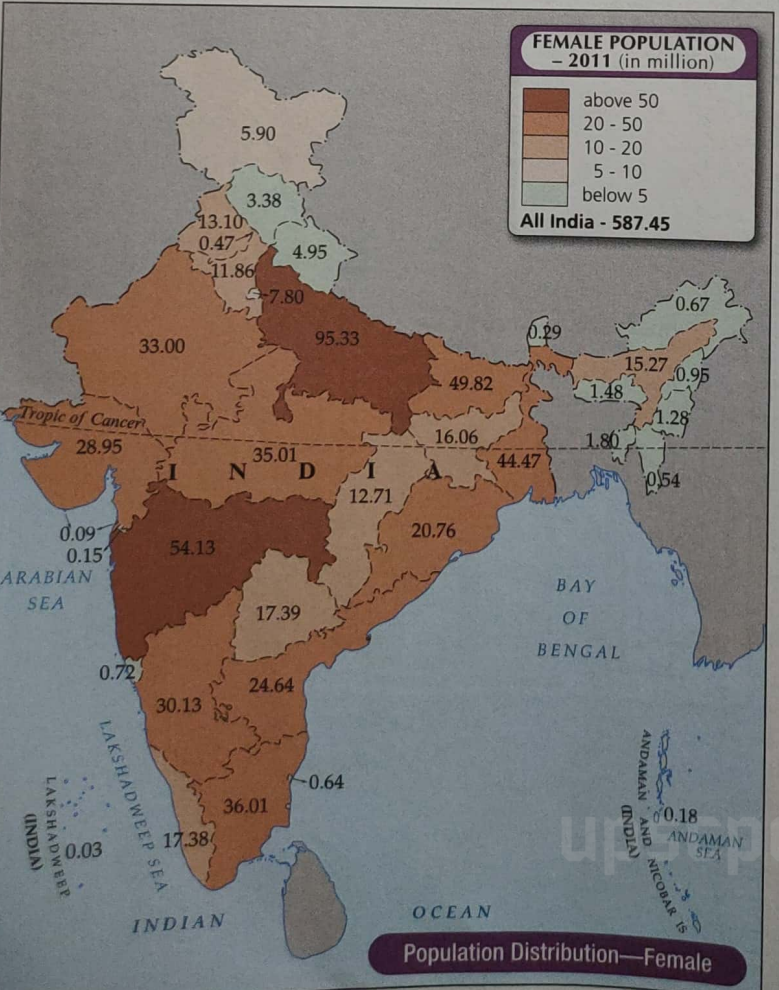
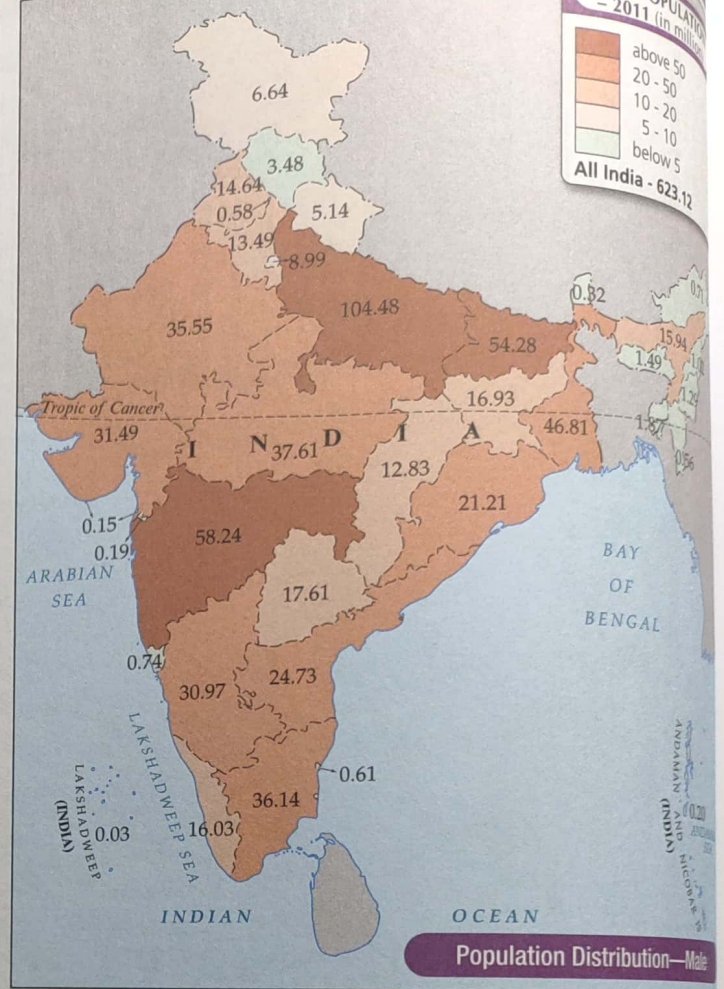
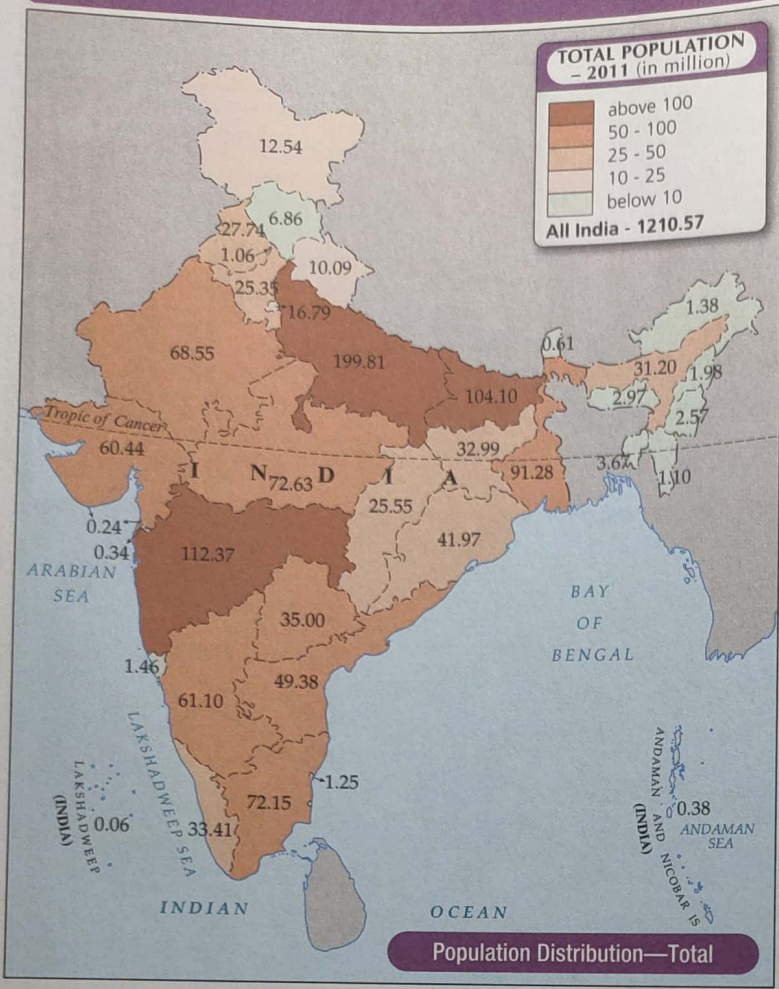
MAJOR ROUTES AND PORTS

- Air route
- Sea route
- International airport
- Domestic airport (Operational)
- Major port

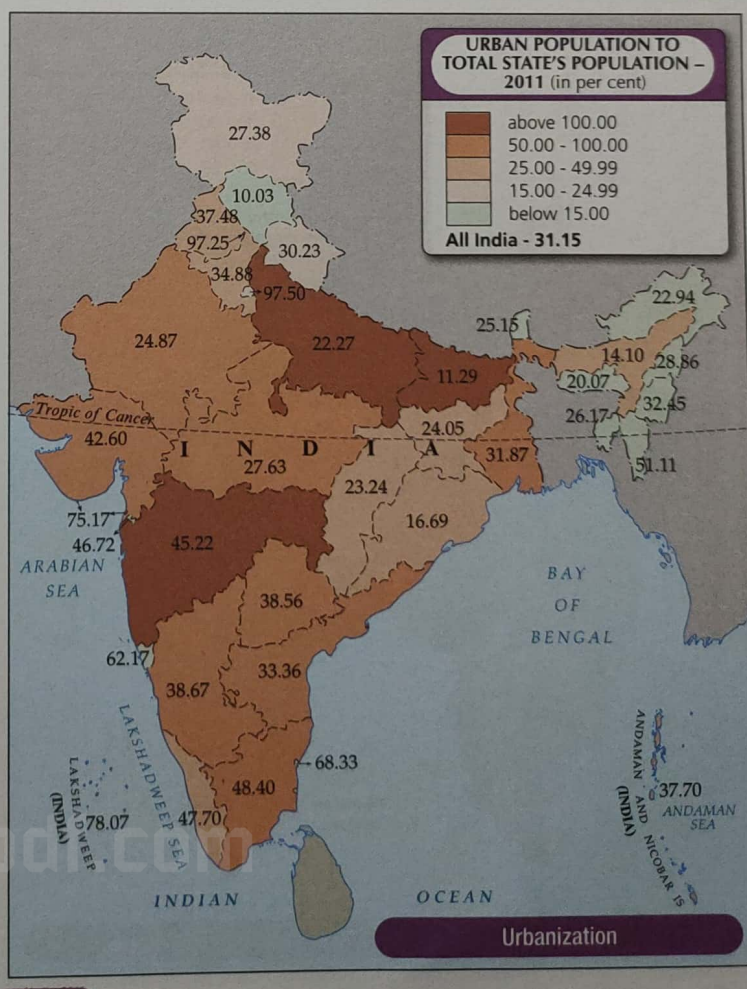
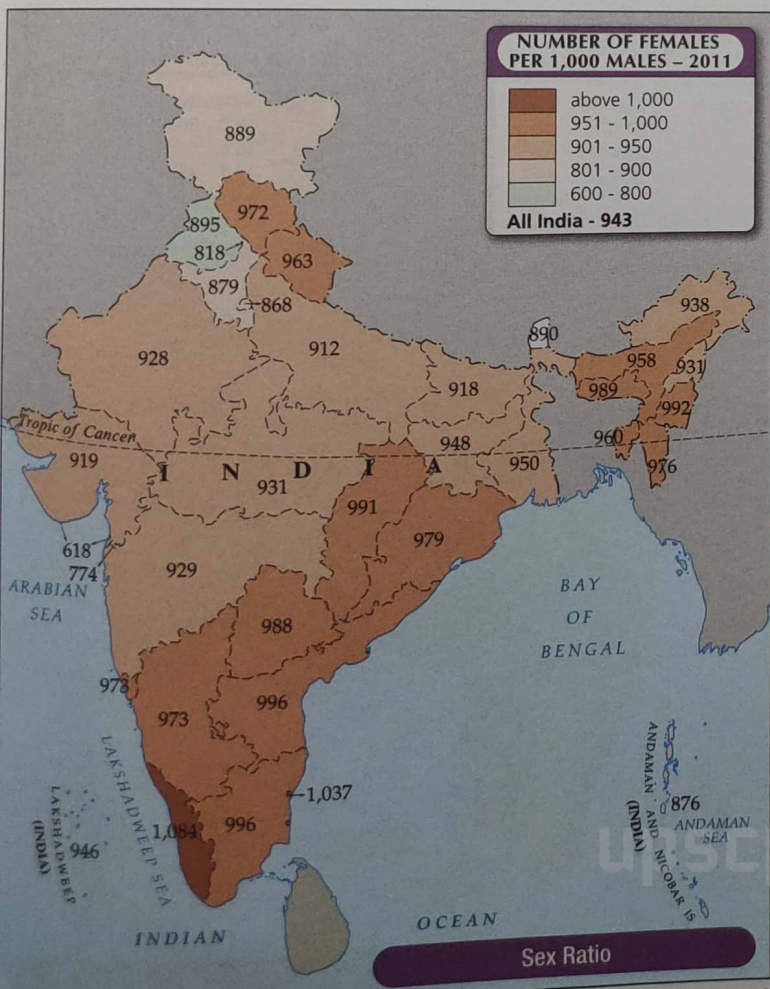
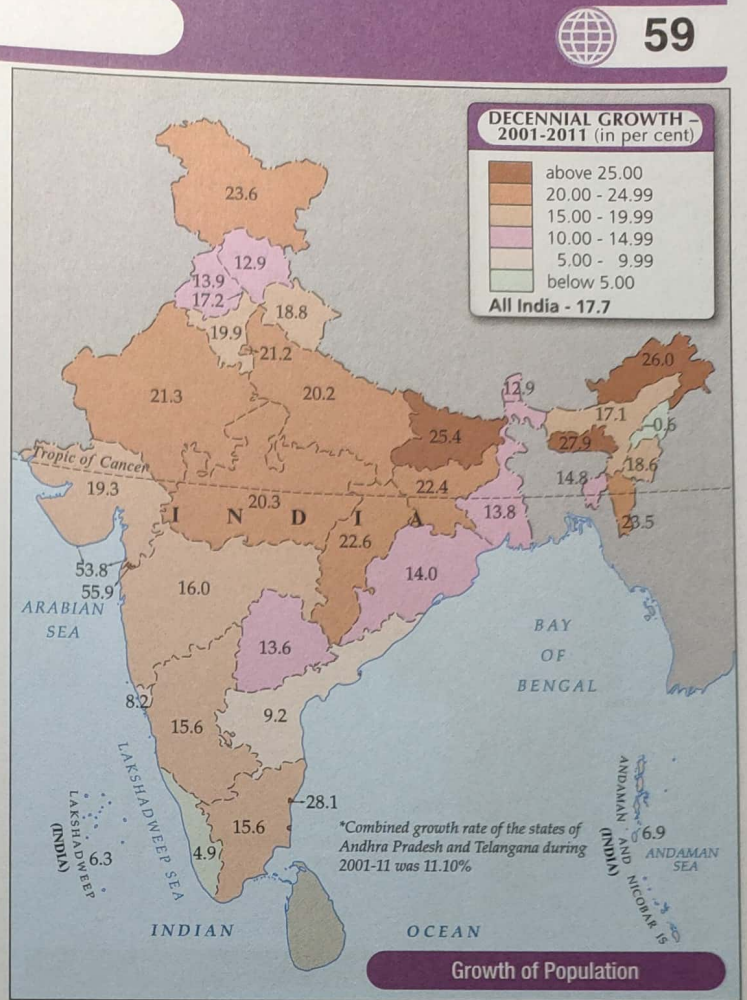
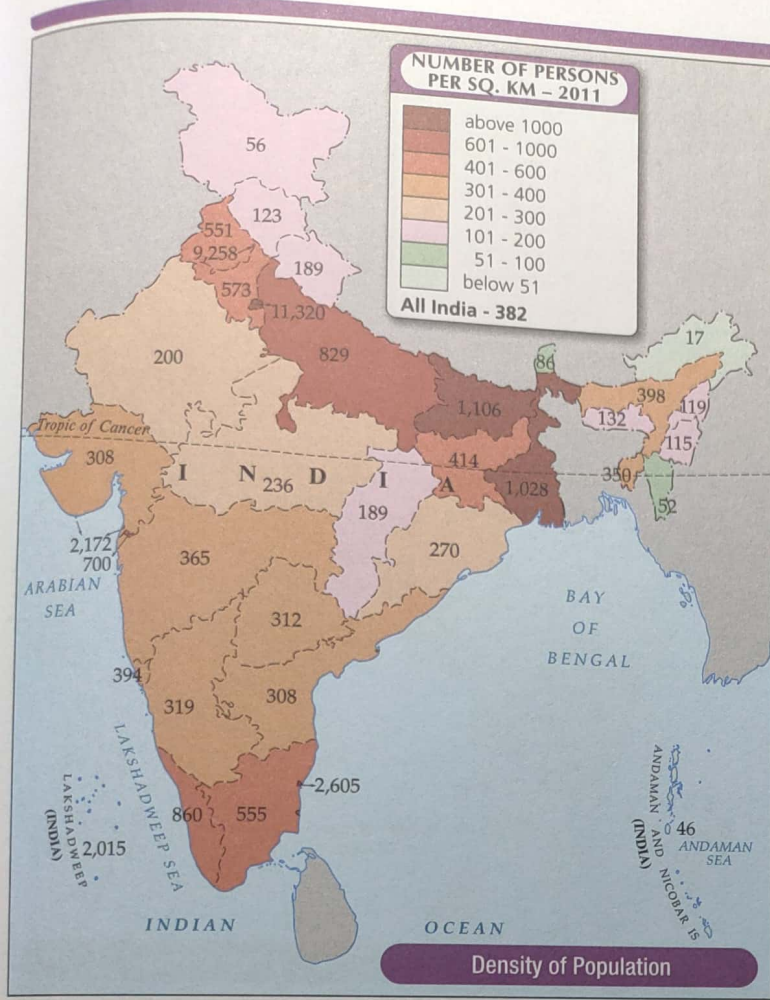


SCALE 1:15 000 000

Data source: Statistical Year Book, India 2011
Ministry of Shipping, Ministry of Civil Aviation

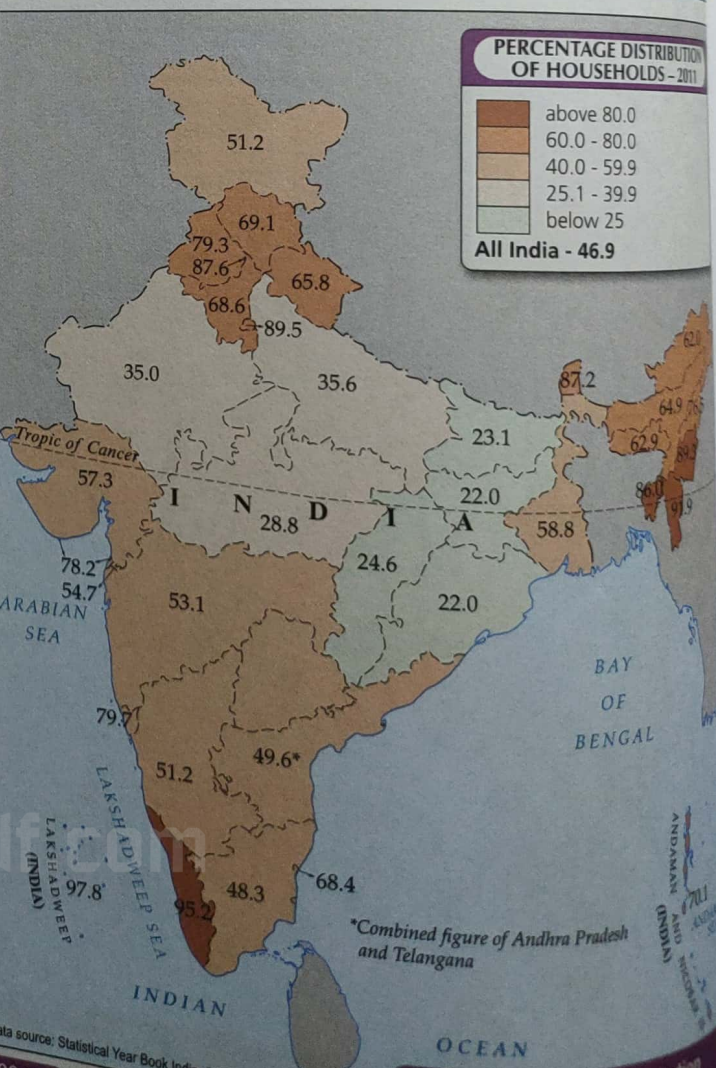
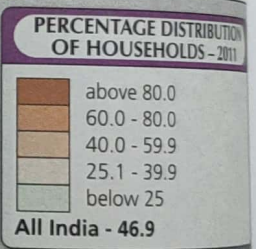
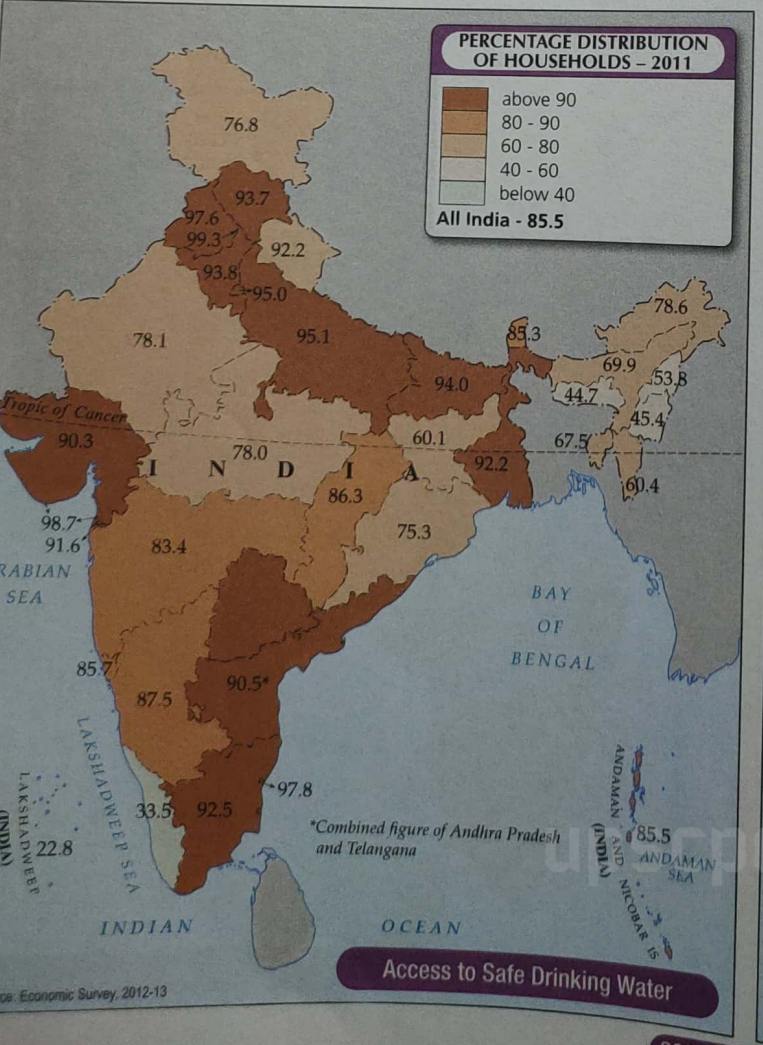
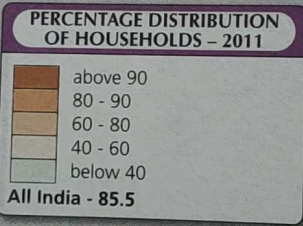
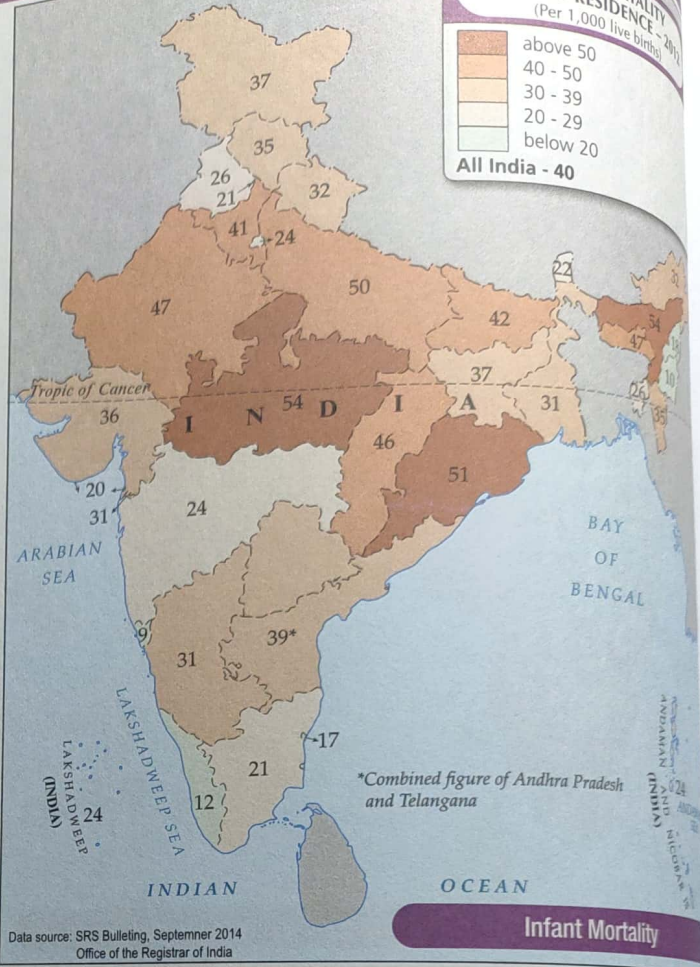
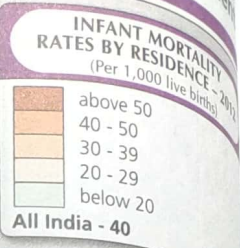
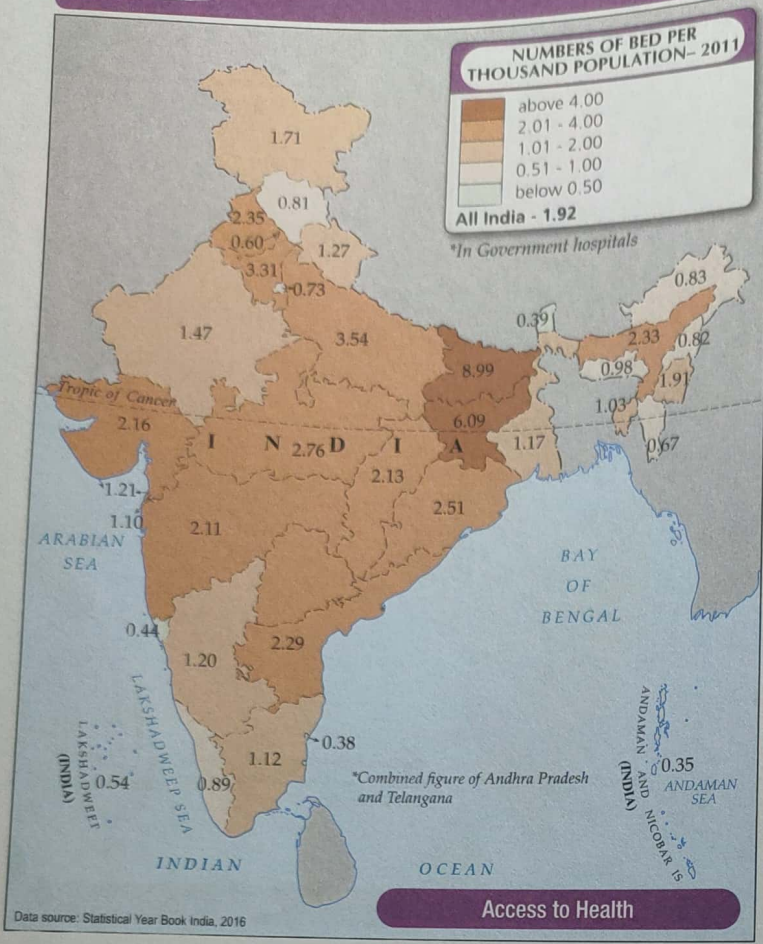
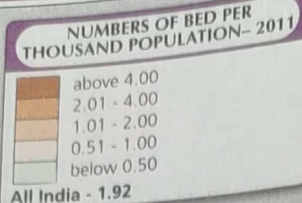


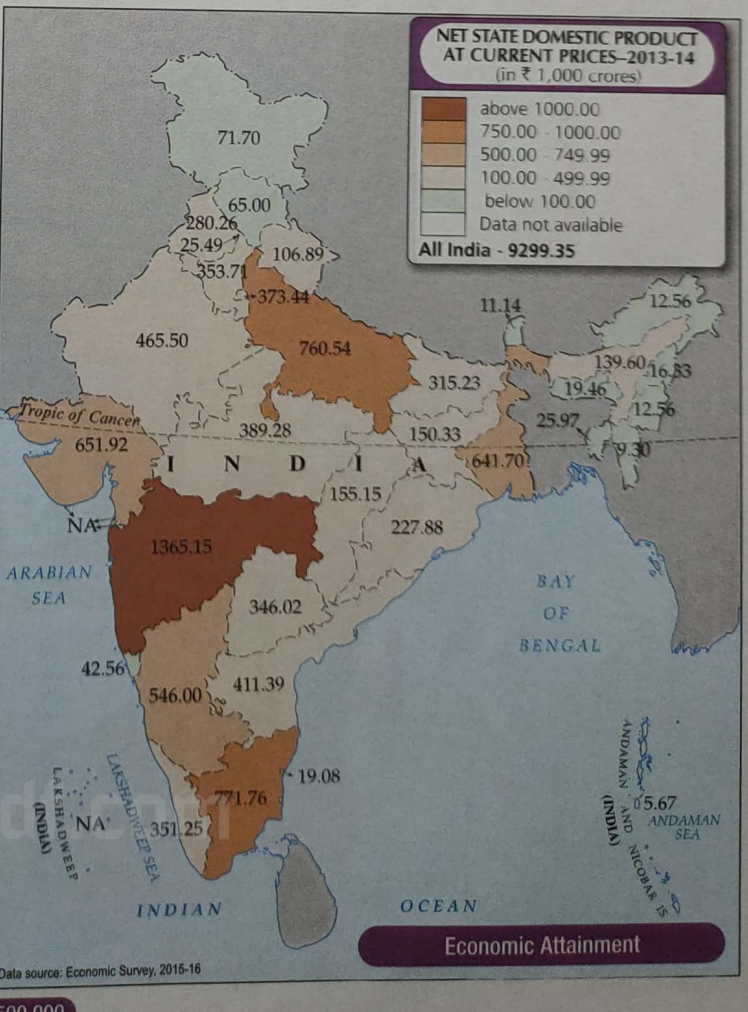
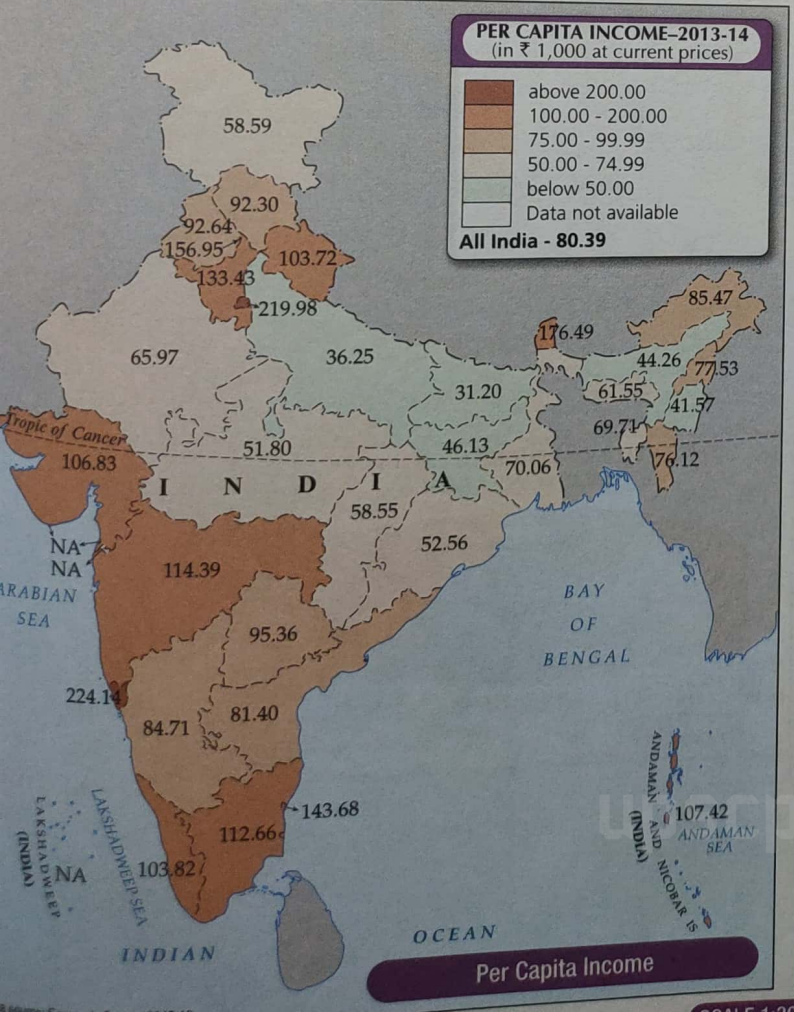
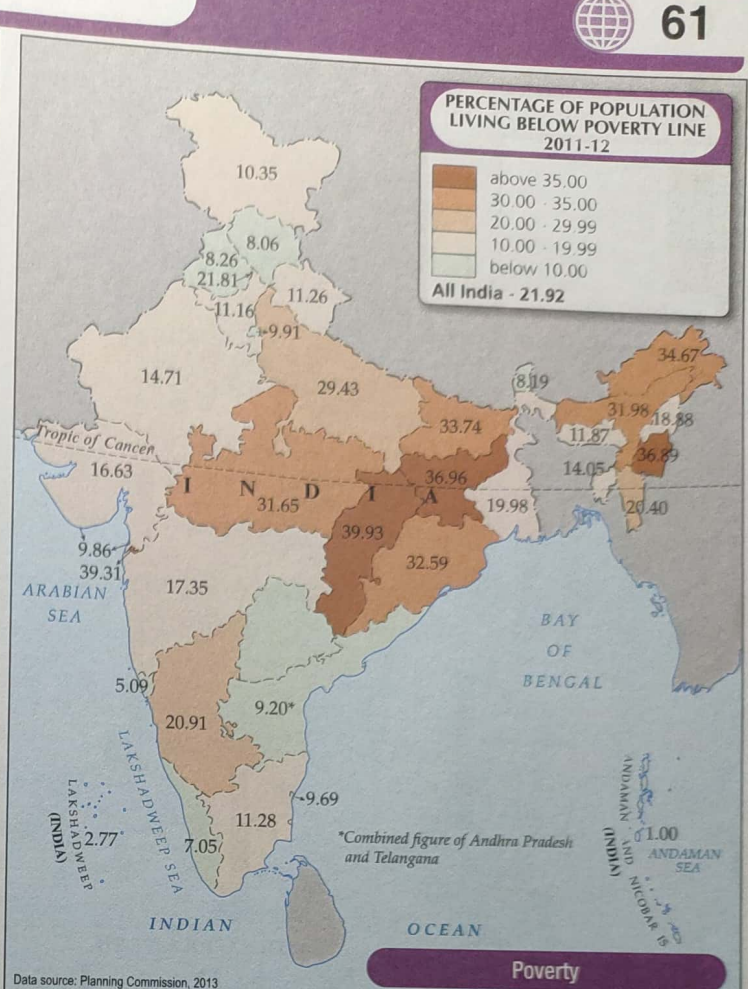
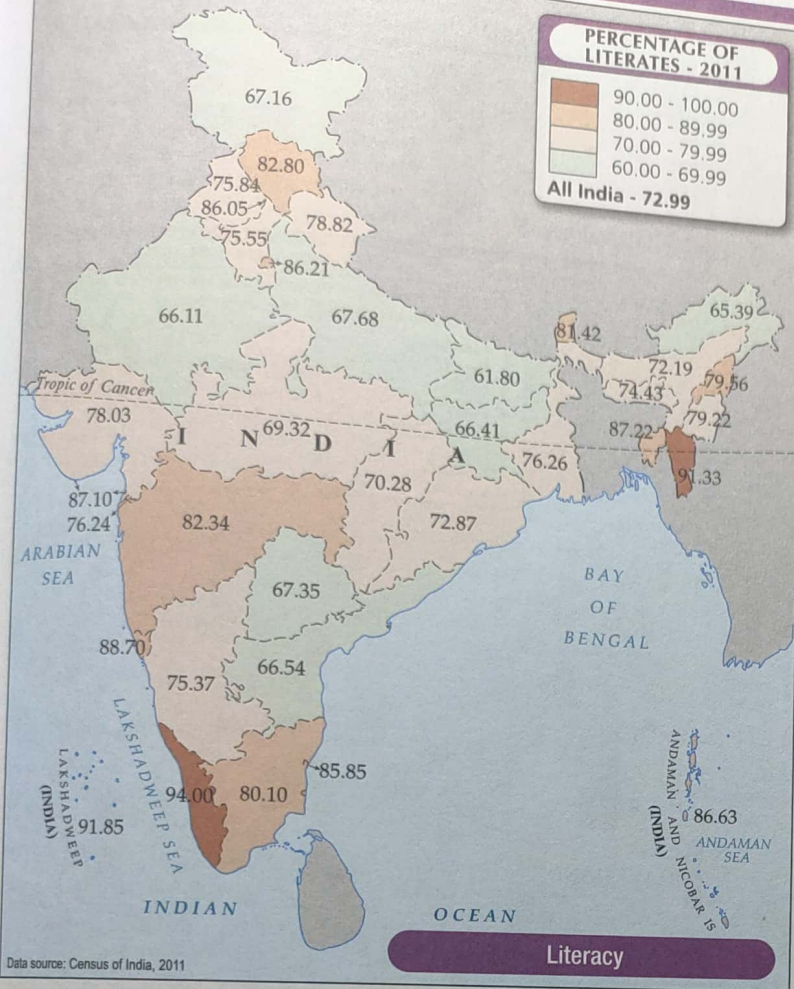
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SCALE 1:30 500 000

Universal Conformal Orthomorphic Projection





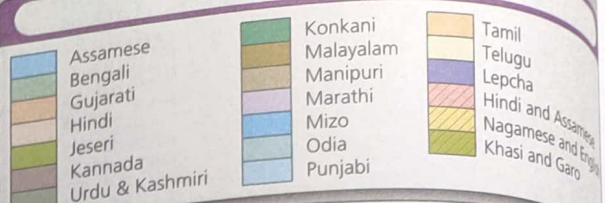
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MAJOR RELIGIONS

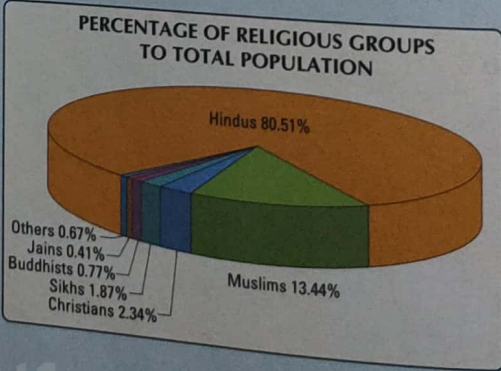
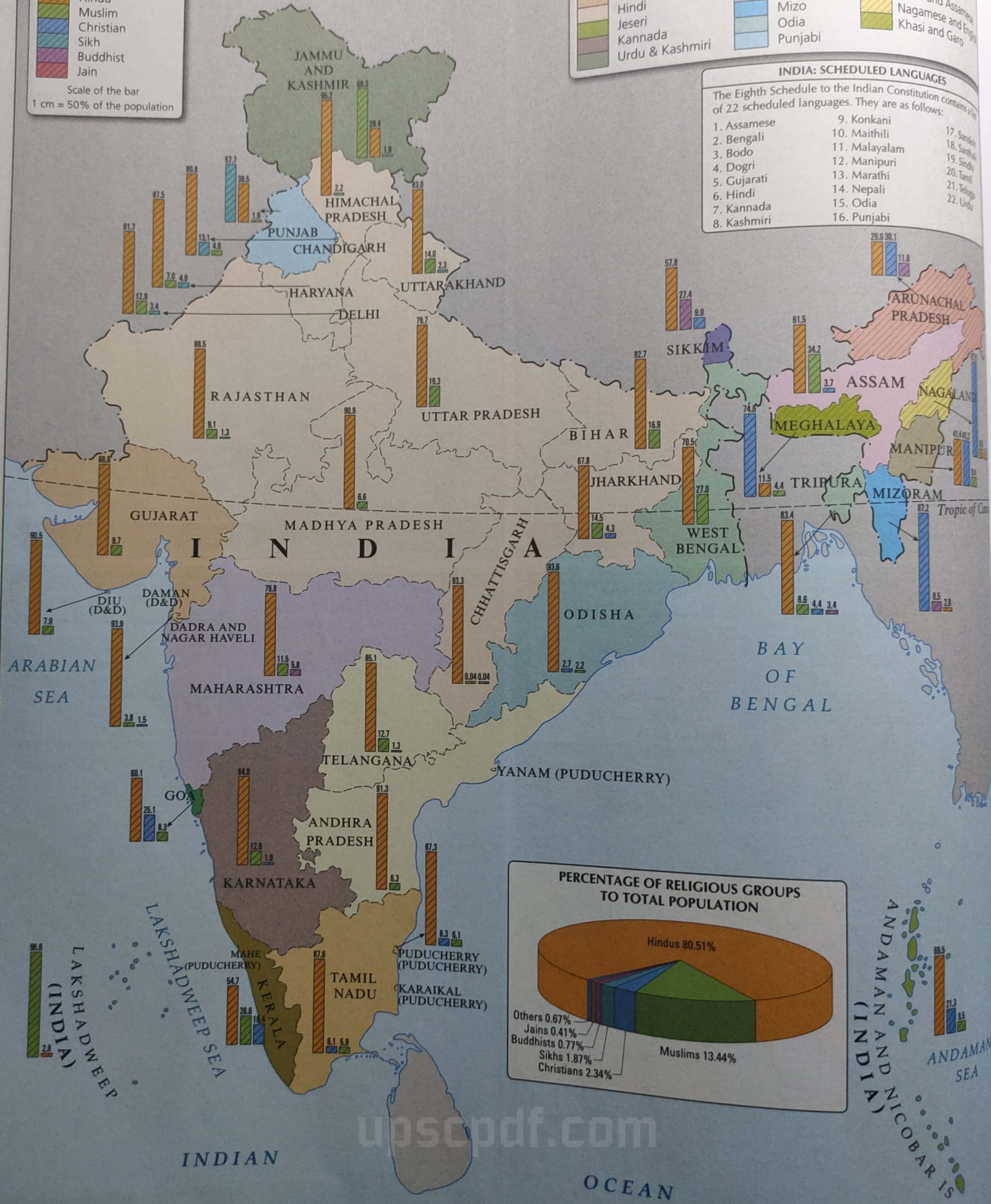


PRINCIPAL LANGUAGES



INDIA: SCHEDULED LANGUAGES

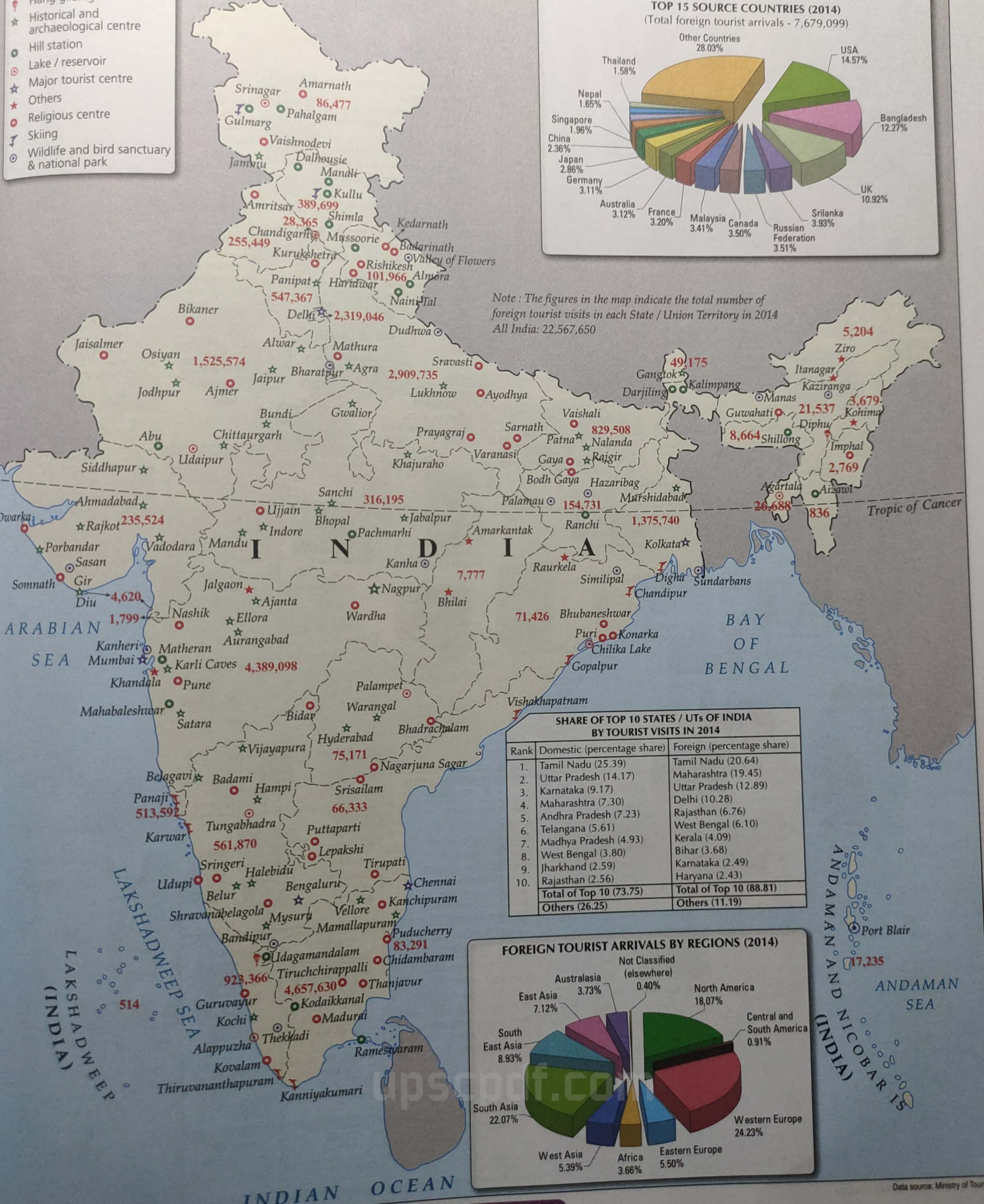
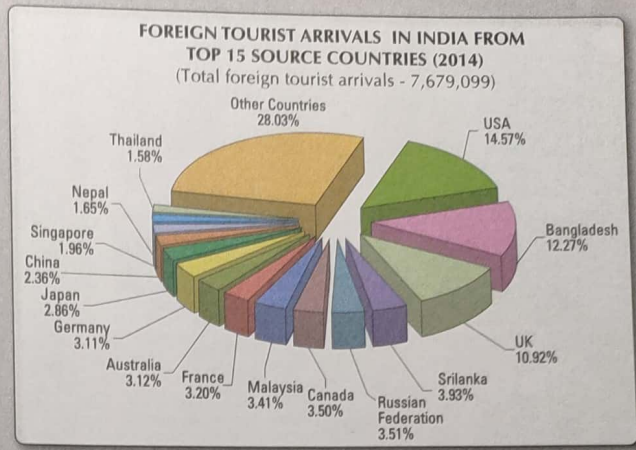
- The Eighth Schedule to the Indian Constitution contains a list of 22 scheduled languages. They are as follows:
1. Assamese
 2. Bengali
 3. Bodo
 4. Dogri
 5. Gujarati
 6. Hindi
 7. Kannada
 8. Kashmiri
 9. Konkani
 10. Maithili
 11. Malayalam
 12. Manipuri
 13. Marathi
 14. Nepali
 15. Odia
 16. Punjabi
 17. Santali
 18. Santhali
 19. Sindhi
 20. Tamil
 21. Telugu
 22. Urdu



Data source: Census of India, 2011

SCALE 1:15 000 000

- TOURISM**
- Beach
 - Hang gliding
 - Historical and archaeological centre
 - Hill station
 - Lake / reservoir
 - Major tourist centre
 - Others
 - Religious centre
 - Skiing
 - Wildlife and bird sanctuary & national park



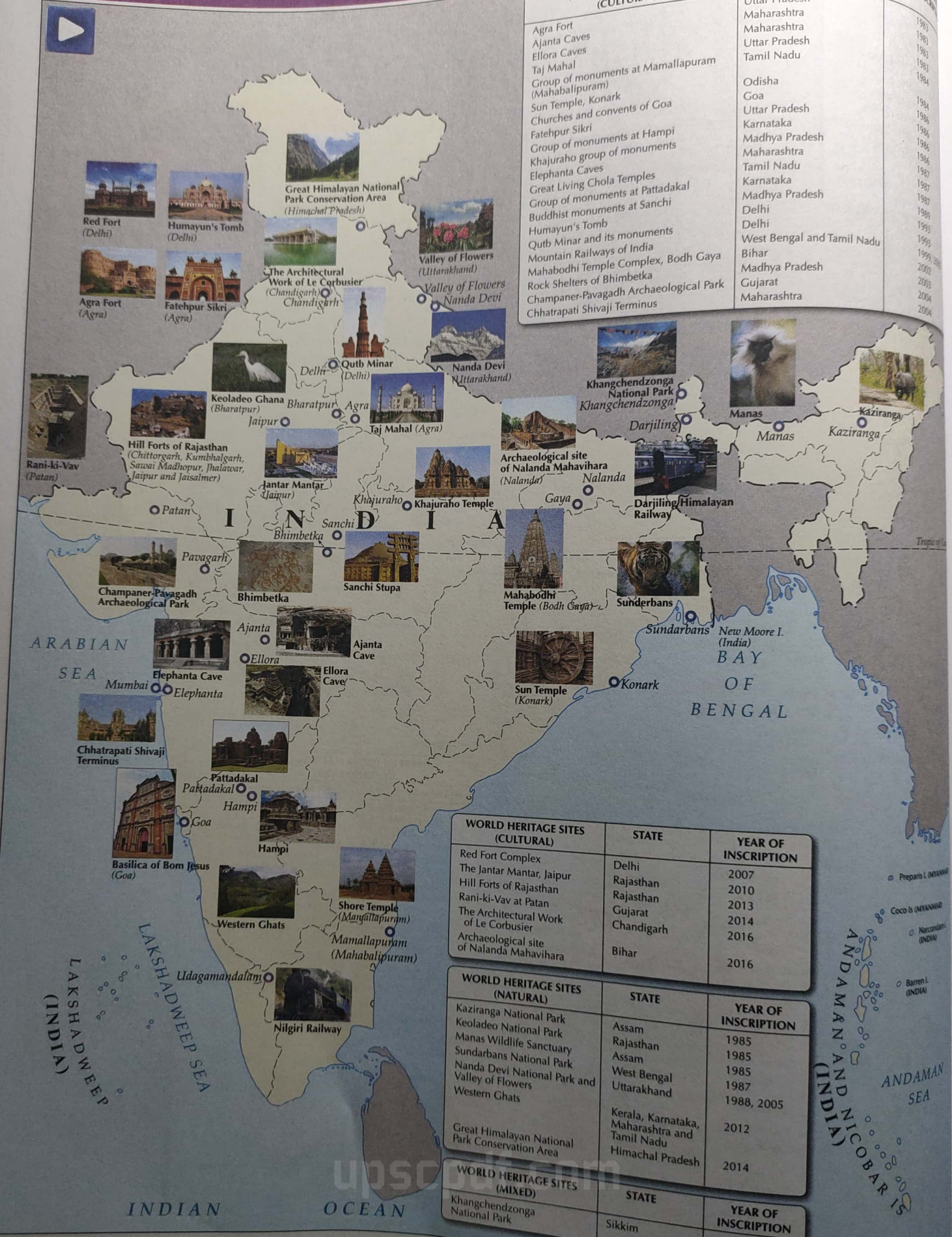
SHARE OF TOP 10 STATES / UTs OF INDIA BY TOURIST VISITS IN 2014

Rank	Domestic (percentage share)	Foreign (percentage share)
1.	Tamil Nadu (25.39)	Tamil Nadu (20.64)
2.	Uttar Pradesh (14.17)	Maharashtra (19.45)
3.	Karnataka (9.17)	Uttar Pradesh (12.89)
4.	Maharashtra (7.30)	Delhi (10.28)
5.	Andhra Pradesh (7.23)	Rajasthan (6.76)
6.	Telangana (5.61)	West Bengal (6.10)
7.	Madhya Pradesh (4.93)	Kerala (4.09)
8.	West Bengal (3.80)	Bihar (3.68)
9.	Jharkhand (2.59)	Karnataka (2.49)
10.	Rajasthan (2.56)	Haryana (2.43)
Total of Top 10 (73.75)		Total of Top 10 (88.81)
Others (26.25)		Others (11.19)



SCALE 1:15 000 000

Data source: Ministry of Tourism



WORLD HERITAGE SITES (CULTURAL)	STATE	YEAR OF INSCRIPTION
Agra Fort	Uttar Pradesh	1983
Ajanta Caves	Maharashtra	1983
Ellora Caves	Maharashtra	1983
Taj Mahal	Uttar Pradesh	1983
Group of monuments at Mamallapuram (Mahabalipuram)	Tamil Nadu	1984
Sun Temple, Konark	Odisha	1984
Churches and convents of Goa	Goa	1984
Fatehpur Sikri	Uttar Pradesh	1986
Group of monuments at Hampi	Karnataka	1986
Khajuraho group of monuments	Madhya Pradesh	1986
Elephanta Caves	Maharashtra	1986
Great Living Chola Temples	Tamil Nadu	1987
Group of monuments at Pattadakal	Karnataka	1987
Buddhist monuments at Sanchi	Madhya Pradesh	1987
Humayun's Tomb	Delhi	1989
Qutb Minar and its monuments	Delhi	1993
Mountain Railways of India	West Bengal and Tamil Nadu	1993
Mahabodhi Temple Complex, Bodh Gaya	Bihar	1999
Rock Shelters of Bhimbetka	Madhya Pradesh	2002
Champaner-Pavagadh Archaeological Park	Gujarat	2003
Chhatrapati Shivaji Terminus	Maharashtra	2004

WORLD HERITAGE SITES (CULTURAL)	STATE	YEAR OF INSCRIPTION
Red Fort Complex	Delhi	2007
The Jantar Mantar, Jaipur	Rajasthan	2010
Hill Forts of Rajasthan	Rajasthan	2010
Rani-ki-Vav at Patan	Rajasthan	2013
The Architectural Work of Le Corbusier	Gujarat	2014
Archaeological site of Nalanda Mahavihara	Bihar	2016

WORLD HERITAGE SITES (NATURAL)	STATE	YEAR OF INSCRIPTION
Kaziranga National Park	Assam	1985
Keoladeo National Park	Rajasthan	1985
Manas Wildlife Sanctuary	Assam	1985
Sundarbans National Park	West Bengal	1987
Nanda Devi National Park and Valley of Flowers	Uttarakhand	1988, 2005
Western Ghats	Kerala, Karnataka, Maharashtra and Tamil Nadu	2012
Great Himalayan National Park Conservation Area	Himachal Pradesh	2014

WORLD HERITAGE SITES (MIXED)	STATE	YEAR OF INSCRIPTION
Khangchendzonga National Park	Sikkim	2016

Data source: UNESCO World Heritage Convention

SCALE 1:15 000 000

Lambert Conical Orthomorphic Projection



TRADITIONAL ARTS AND CRAFTS

TRADITIONAL FESTIVALS

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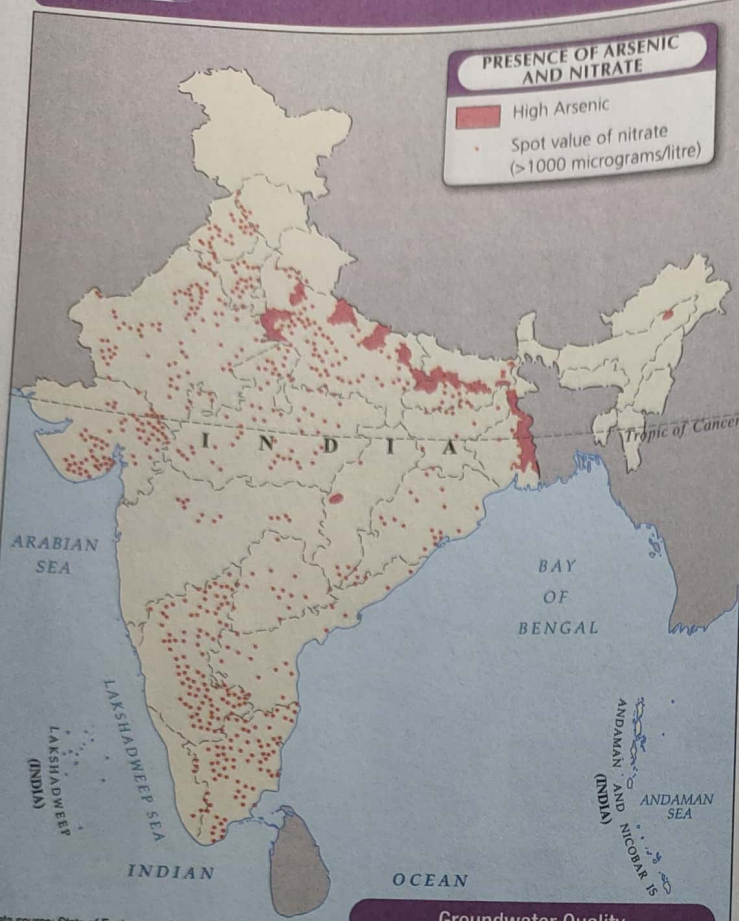
upsrpdf.com

SCALE 1:15 000 000



PRESENCE OF ARSENIC AND NITRATE

- High Arsenic
- Spot value of nitrate (>1000 micrograms/litre)

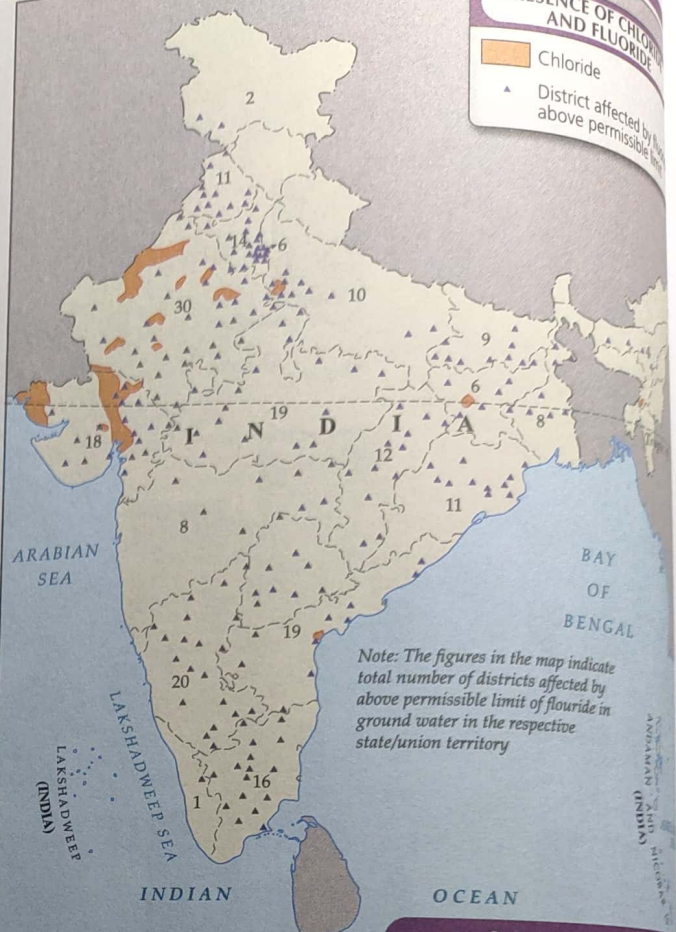


Data source: State of Environment Report, 2015

Groundwater Quality

PRESENCE OF CHLORIDE AND FLUORIDE

- Chloride
- District affected by above permissible limit



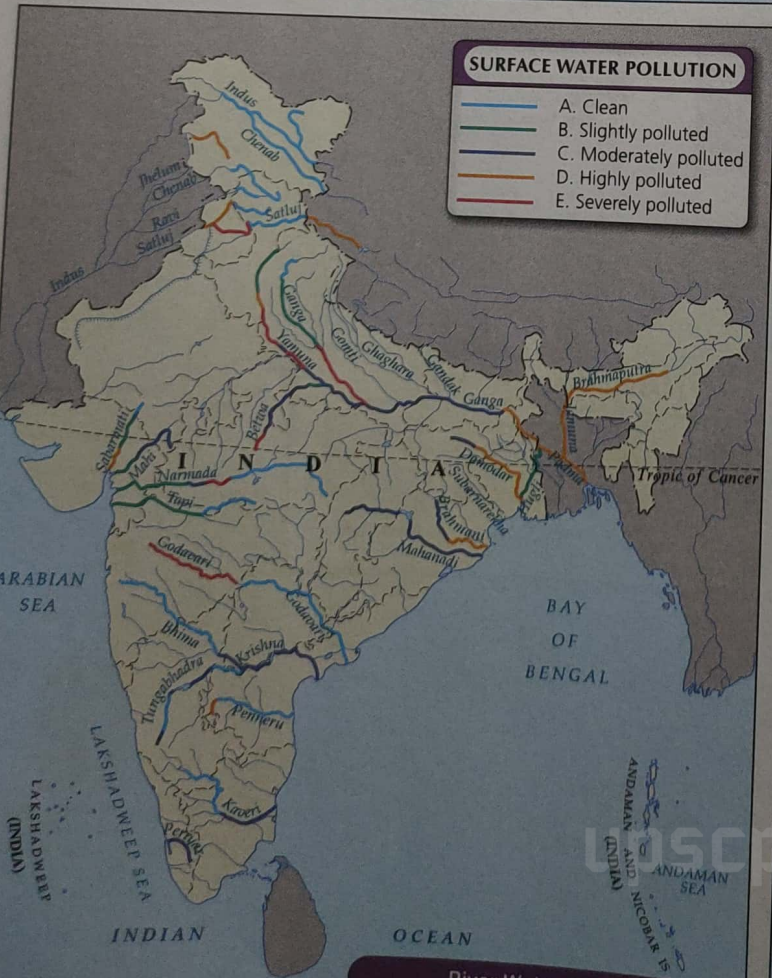
Note: The figures in the map indicate total number of districts affected by above permissible limit of fluoride in ground water in the respective state/union territory

Data source: State of Environment Report, 2015

Groundwater Quality

SURFACE WATER POLLUTION

- A. Clean
- B. Slightly polluted
- C. Moderately polluted
- D. Highly polluted
- E. Severely polluted



source: Compendium of Environment Statistics India - 2015

River Water Quality

AIR POLLUTANTS

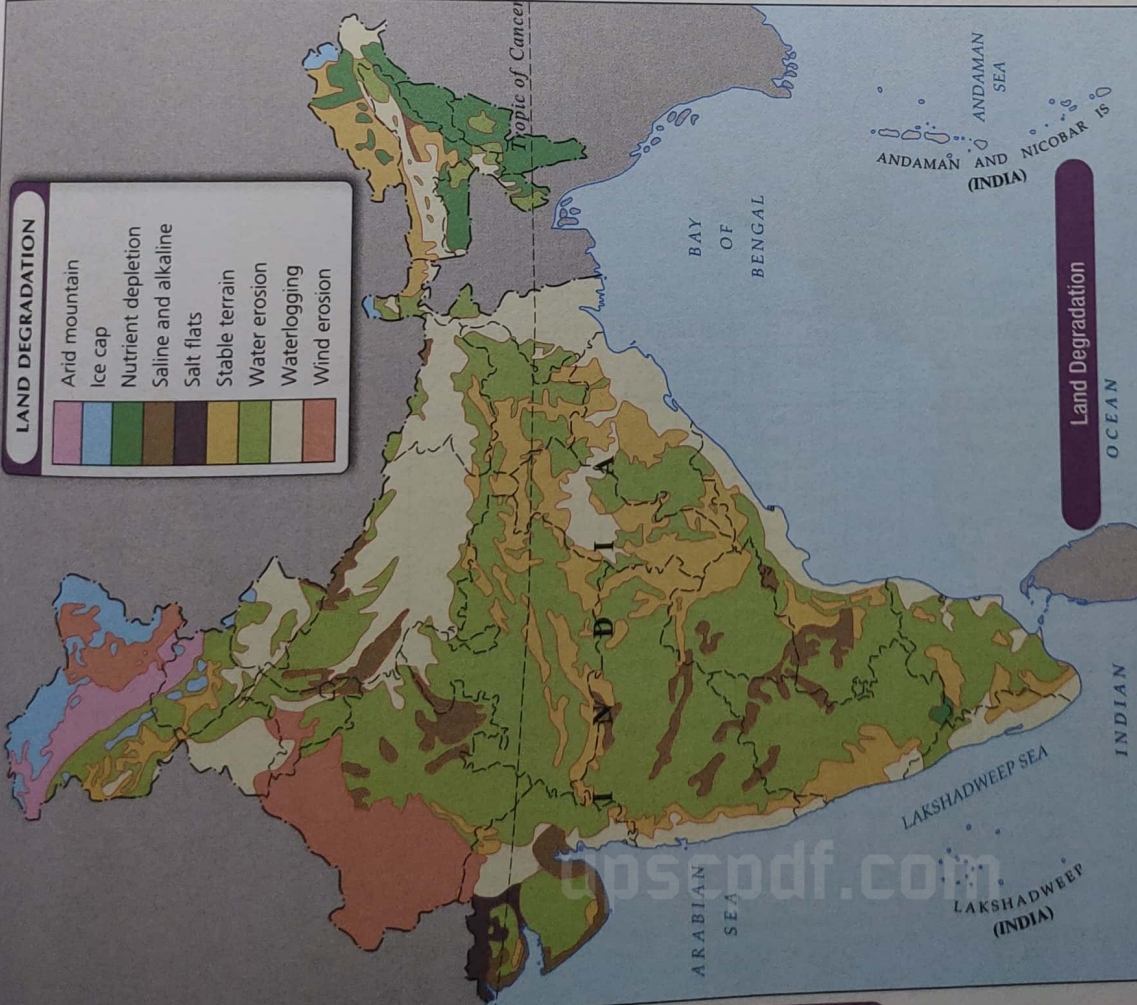
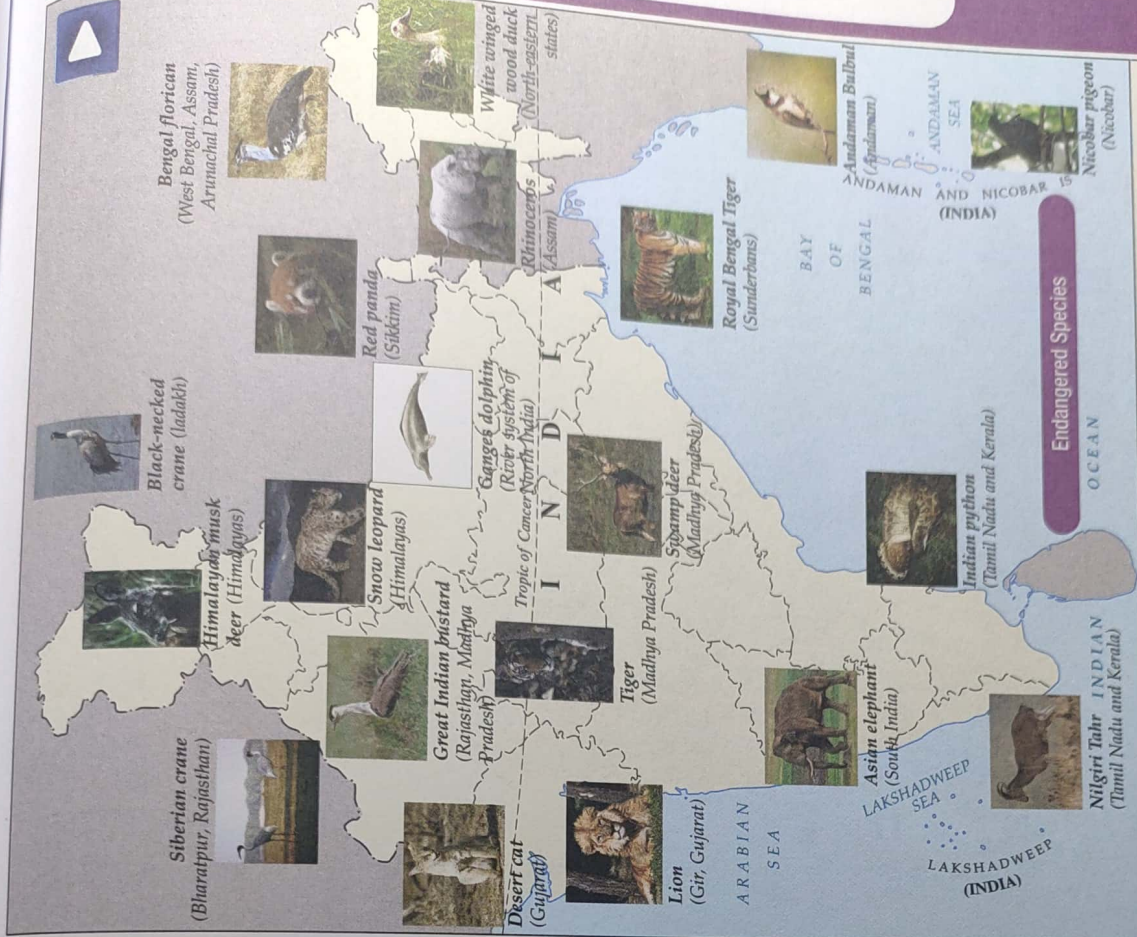
Major air pollutants near National Ambient Air Quality Standards (annual average)

- SPM
- RSPM
- SPM and RSPM
- NO₂ and SPM
- NO₂, RSPM and SPM



SPM – Suspended Particulate Matter
 RSPM – Respirable Suspended Particulate Matter
 NO₂ – Nitrogen dioxide

Data source: Compendium of Environment Statistics India - 2015

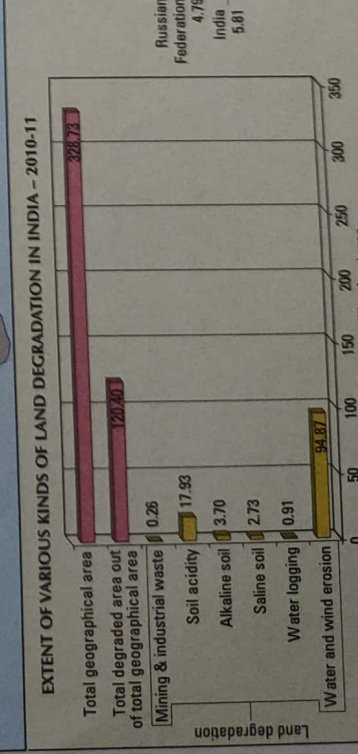
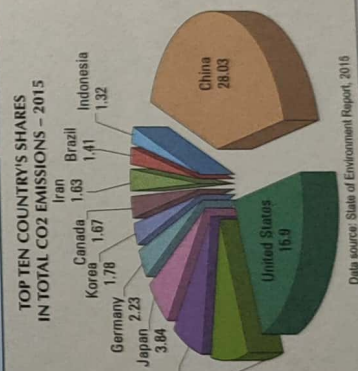


THREATENED SPECIES

Mammals	Birds	Reptiles	Amphibians	Fishes	Molluscs	Other inverts	Plants	Total
96	76	25	65	40	2	108	246	659

INDIA	EX	EW	Sub-total	CR	EN	VU	Sub-total
Animals	0	0	0	74	206	383	663
Plants	6	2	8	77	172	139	388

IUCN Red List Categories: EX - Extinct, EW - Extinct in the wild, CR - Critically Endangered, VU - Vulnerable.



SCALE 1:24 000 000

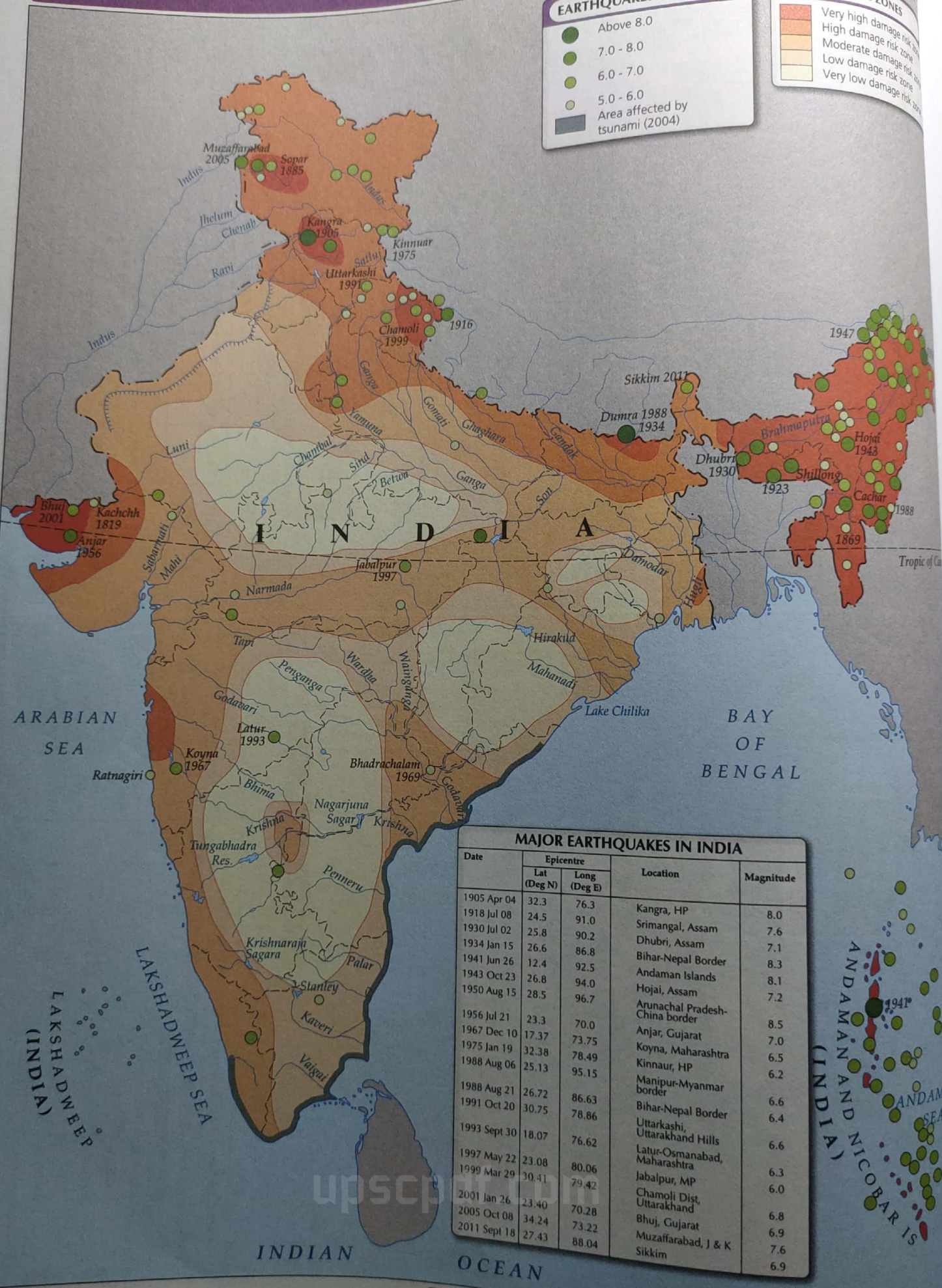
Lambert Conical Orthomorphic Projection

EARTHQUAKES (Magnitude)

- Above 8.0
- 7.0 - 8.0
- 6.0 - 7.0
- 5.0 - 6.0
- Area affected by tsunami (2004)

SEISMIC ZONES

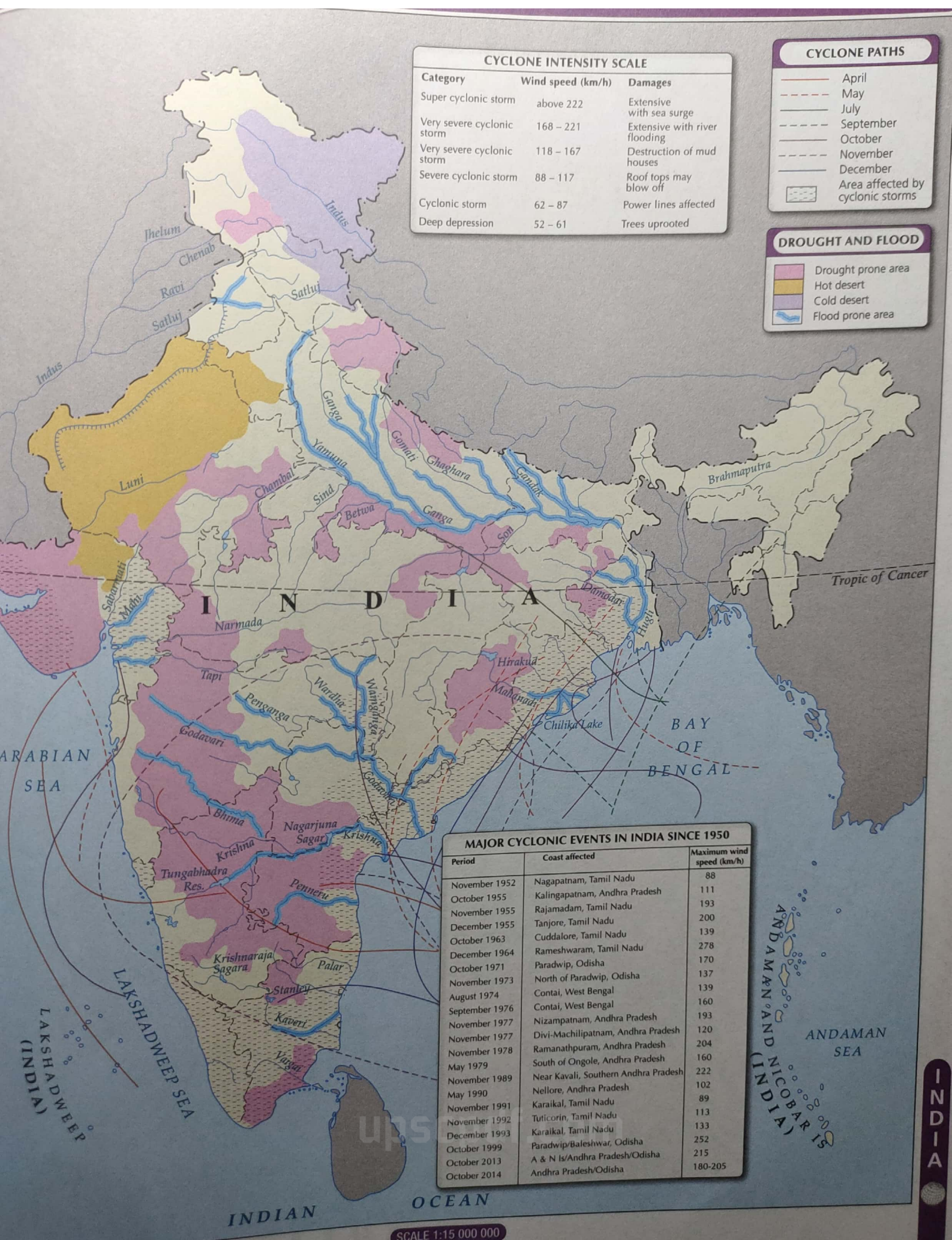
- Very high damage risk zone
- High damage risk zone
- Moderate damage risk zone
- Low damage risk zone
- Very low damage risk zone



MAJOR EARTHQUAKES IN INDIA

Date	Epicentre		Location	Magnitude
	Lat (Deg N)	Long (Deg E)		
1905 Apr 04	32.3	76.3	Kangra, HP	8.0
1918 Jul 08	24.5	91.0	Srimangal, Assam	7.6
1930 Jul 02	25.8	90.2	Dhubri, Assam	7.1
1934 Jan 15	26.6	86.8	Bihar-Nepal Border	8.3
1941 Jun 26	12.4	92.5	Andaman Islands	8.1
1943 Oct 23	26.8	94.0	Hojai, Assam	7.2
1950 Aug 15	28.5	96.7	Arunachal Pradesh-China border	8.5
1956 Jul 21	23.3	70.0	Anjar, Gujarat	7.0
1967 Dec 10	17.37	73.75	Koyna, Maharashtra	6.5
1975 Jan 19	32.38	78.49	Kinnaur, HP	6.2
1988 Aug 06	25.13	95.15	Manipur-Myanmar border	6.6
1988 Aug 21	26.72	86.63	Bihar-Nepal Border	6.6
1991 Oct 20	30.75	78.86	Uttarkashi, Uttarakhand Hills	6.4
1993 Sept 30	18.07	76.62	Latur-Osmanabad, Maharashtra	6.6
1997 May 22	23.08	80.06	Jabalpur, MP	6.3
1999 Mar 29	30.41	79.42	Chamoli Dist, Uttarakhand	6.0
2001 Jan 26	23.40	70.28	Bhuji, Gujarat	6.8
2005 Oct 08	34.24	73.22	Muzaffarabad, J & K	6.9
2011 Sept 18	27.43	88.04	Sikkim	6.9

SCALE 1:15 000 000



CYCLONE INTENSITY SCALE

Category	Wind speed (km/h)	Damages
Super cyclonic storm	above 222	Extensive with sea surge
Very severe cyclonic storm	168 - 221	Extensive with river flooding
Very severe cyclonic storm	118 - 167	Destruction of mud houses
Severe cyclonic storm	88 - 117	Roof tops may blow off
Cyclonic storm	62 - 87	Power lines affected
Deep depression	52 - 61	Trees uprooted

CYCLONE PATHS

	April
	May
	July
	September
	October
	November
	December
	Area affected by cyclonic storms

DROUGHT AND FLOOD

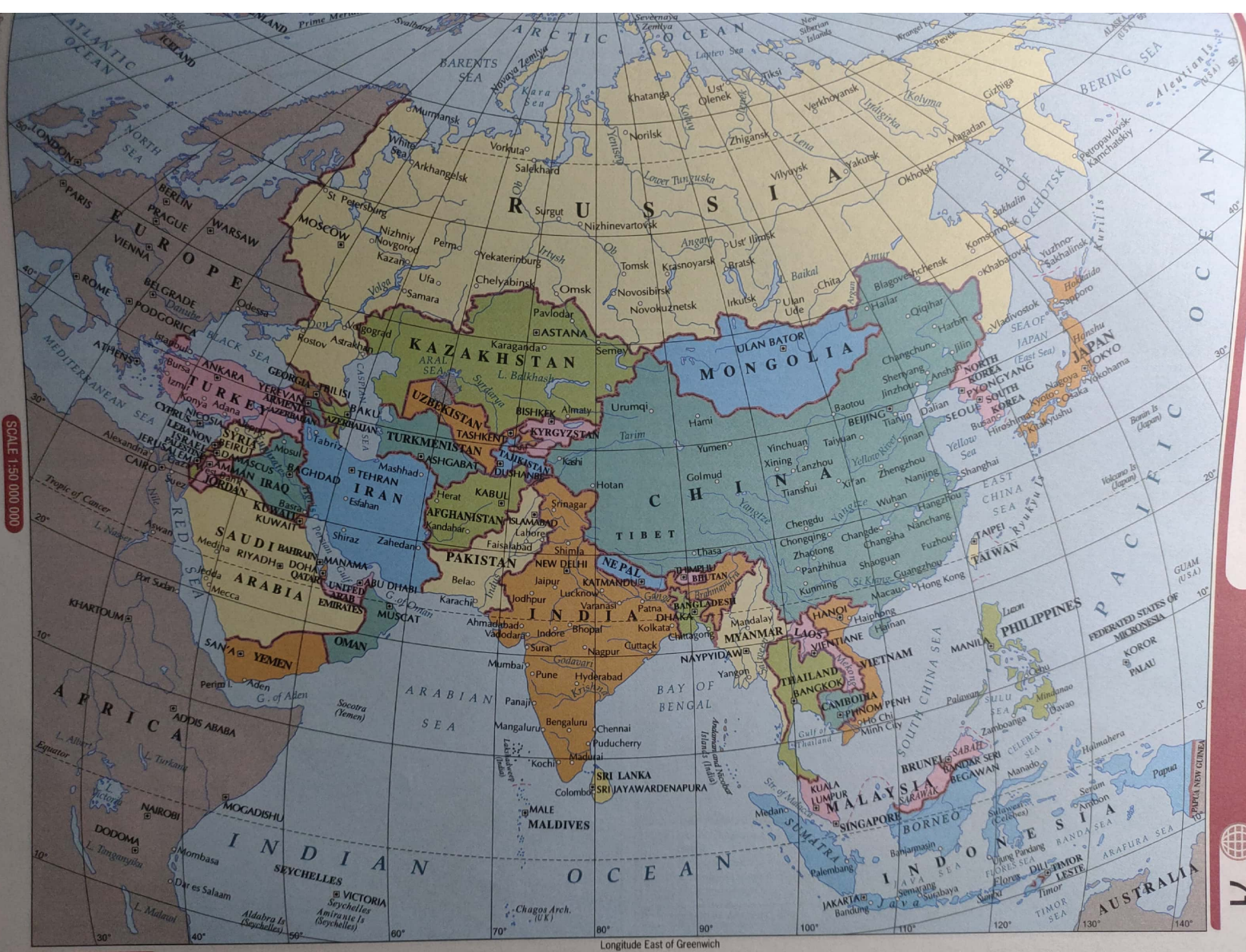
	Drought prone area
	Hot desert
	Cold desert
	Flood prone area

MAJOR CYCLONIC EVENTS IN INDIA SINCE 1950

Period	Coast affected	Maximum wind speed (km/h)
November 1952	Nagapatnam, Tamil Nadu	88
October 1955	Kalingapatnam, Andhra Pradesh	111
November 1955	Rajamadam, Tamil Nadu	193
December 1955	Tanjore, Tamil Nadu	200
October 1963	Cuddalore, Tamil Nadu	139
December 1964	Rameshwaram, Tamil Nadu	278
October 1971	Paradwip, Odisha	170
November 1973	North of Paradwip, Odisha	137
August 1974	Contai, West Bengal	139
September 1976	Contai, West Bengal	160
November 1977	Nizampatnam, Andhra Pradesh	193
November 1977	Divi-Machilipatnam, Andhra Pradesh	120
November 1978	Ramanathpuram, Andhra Pradesh	204
May 1979	South of Ongole, Andhra Pradesh	160
November 1989	Near Kavali, Southern Andhra Pradesh	222
May 1990	Nellore, Andhra Pradesh	102
November 1991	Karaikal, Tamil Nadu	89
November 1992	Tuticorin, Tamil Nadu	113
December 1993	Karaikal, Tamil Nadu	133
October 1999	Paradwip/Baleshwar, Odisha	252
October 2013	A & N Is/Andhra Pradesh/Odisha	215
October 2014	Andhra Pradesh/Odisha	180-205

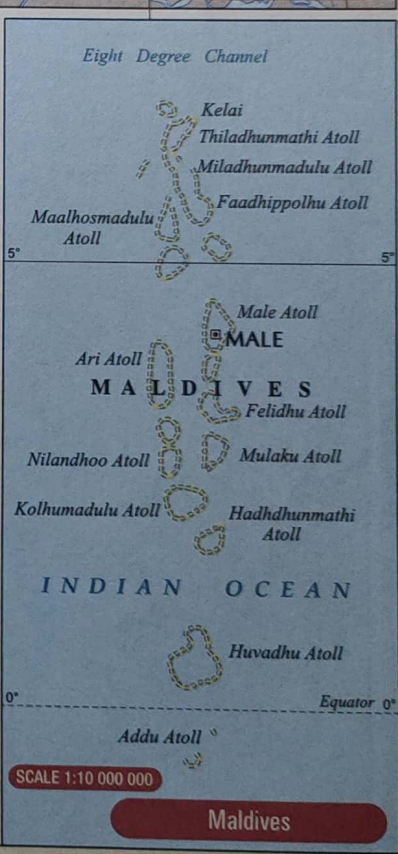
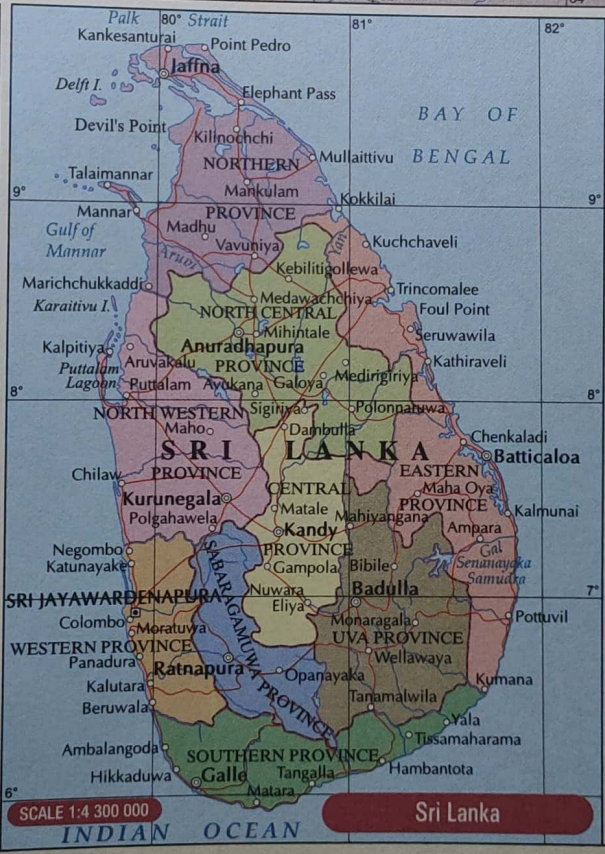
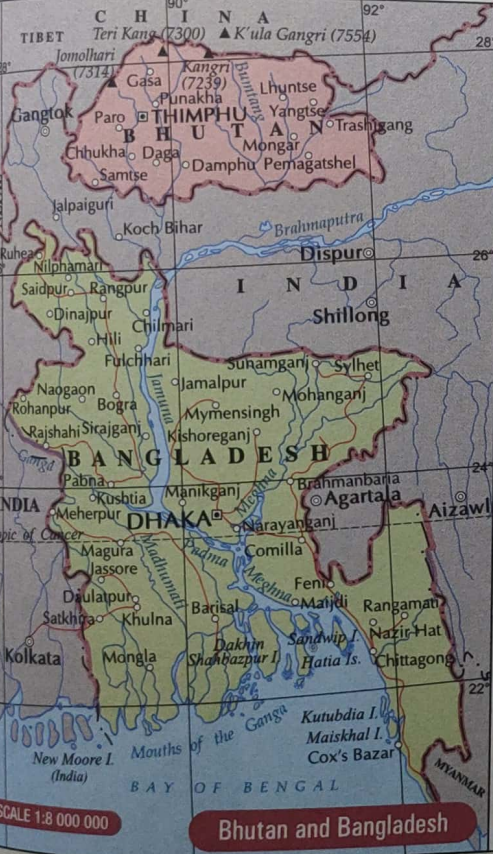
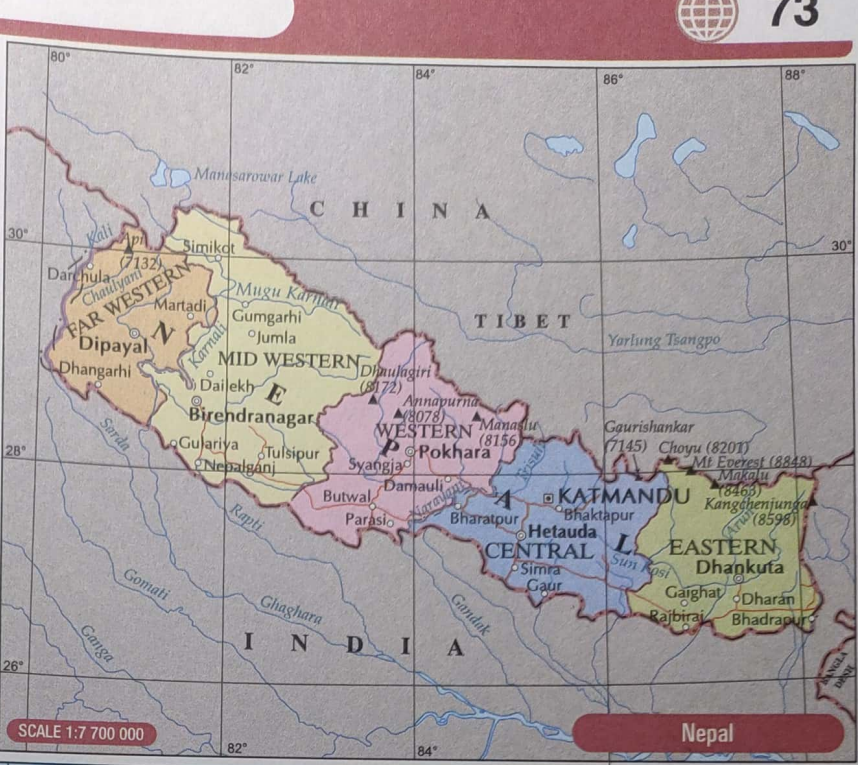
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SAARC Countries



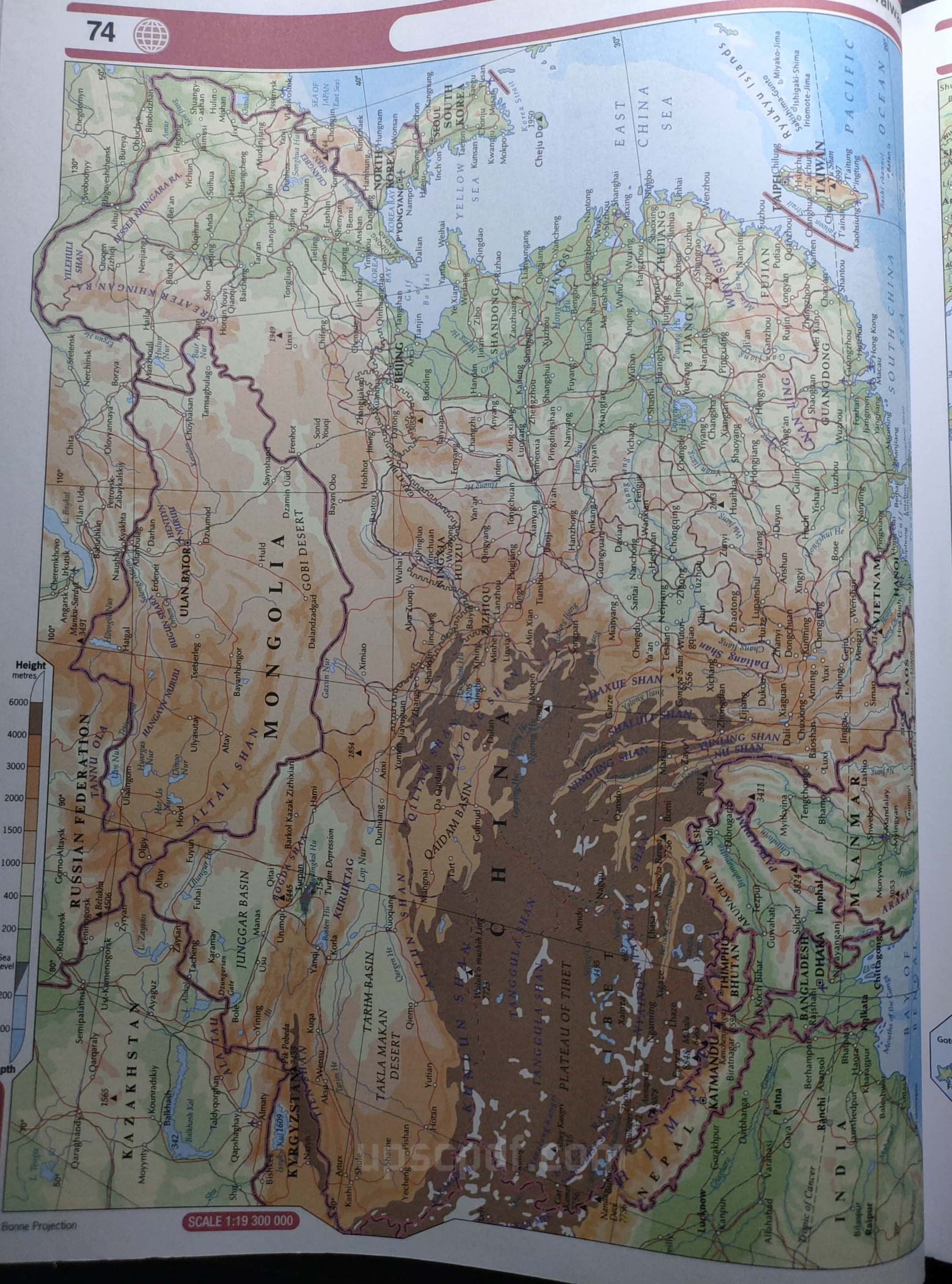
HUMAN DEVELOPMENT INDEX OF SAARC MEMBER COUNTRIES

Source: HDR 2015

HDI RANK	HUMAN DEVELOPMENT COMPONENTS				ECONOMY	EDUCATION	HEALTH	POVERTY		
	HDI rank in world	Country	Human development index (HDI) value	GNI per capita (2005 PPP US\$)					Life expectancy at birth (years)	Mean years of schooling (years)
73		Sri Lanka	0.757	9,779	74.9	10.8	9,426	91.2	3.2	...
104		Maldives	0.706	12,328	76.8	5.8	11,283	98.4	10.8	1.5
130		India*	0.609	5,497	68.0	5.4	5,238	62.8	4.0	23.6
132		Bhutan	0.605	7,176	69.5	3.0	7,167	52.8	3.6	2.4
142		Bangladesh	0.570	3,191	71.6	5.1	2,853	58.8	3.7	43.3
145		Nepal	0.548	2,311	69.6	3.3	2,173	57.4	6.0	23.7
147		Pakistan	0.538	4,866	66.2	4.7	4,454	54.7	2.8	12.7
175		Afghanistan	0.465	1,885	60.4	3.2	1,884	31.7	8.1	...
...		SOUTH ASIA	0.607	5,605	68.4	5.5	5,324	62.5	4.3	...

Longitude East of Greenwich

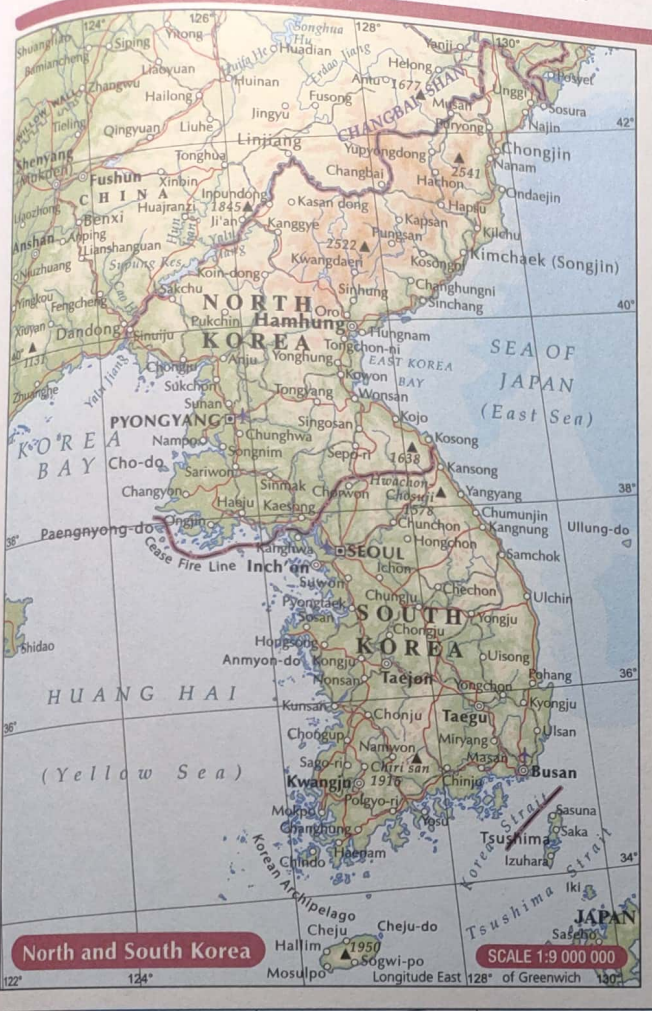
*map details of India are given in the preceding pages



SCALE 1:19 300 000

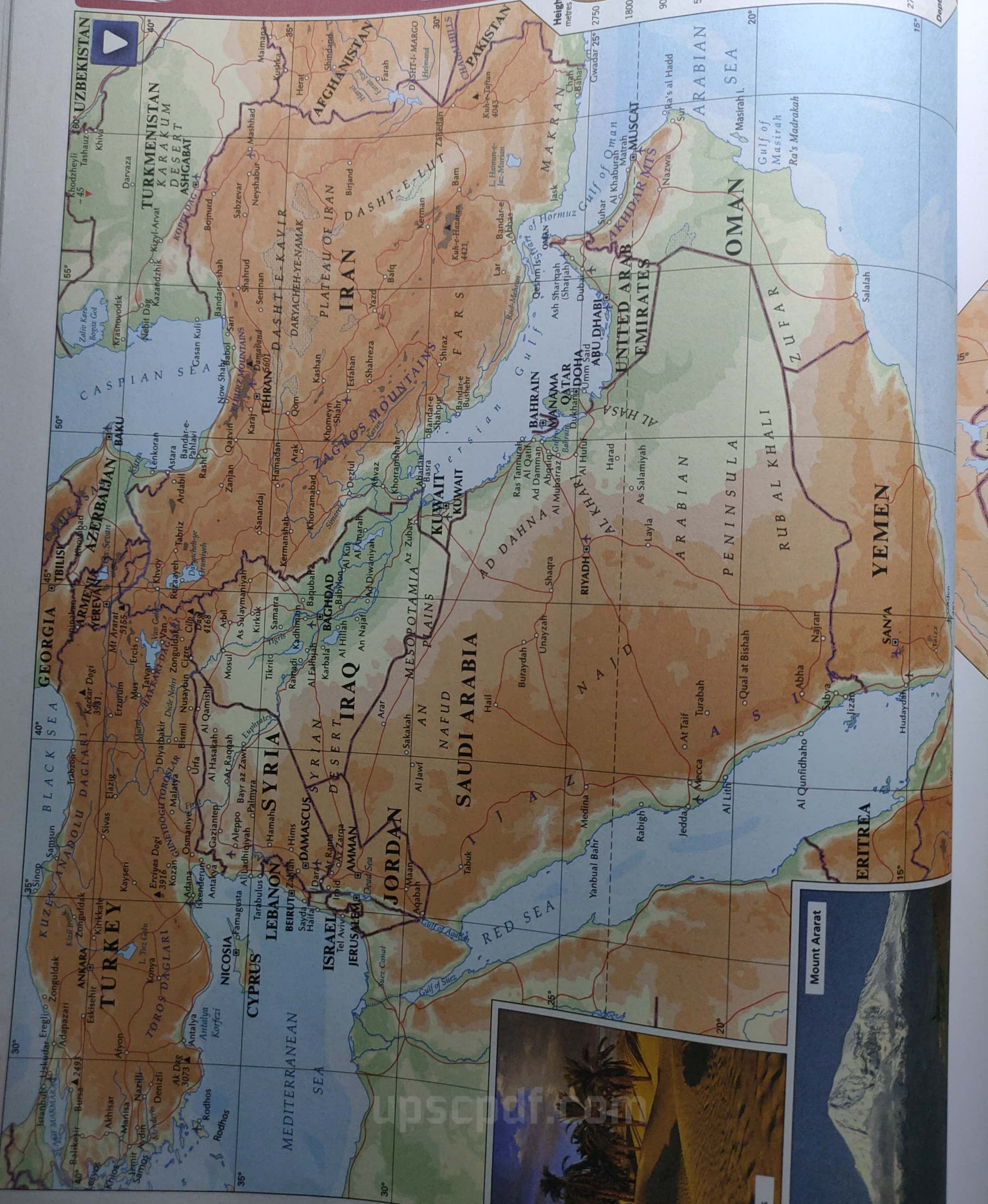
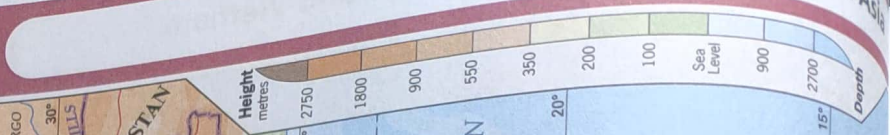
Bonne Projection

Japan, North Korea and South Korea



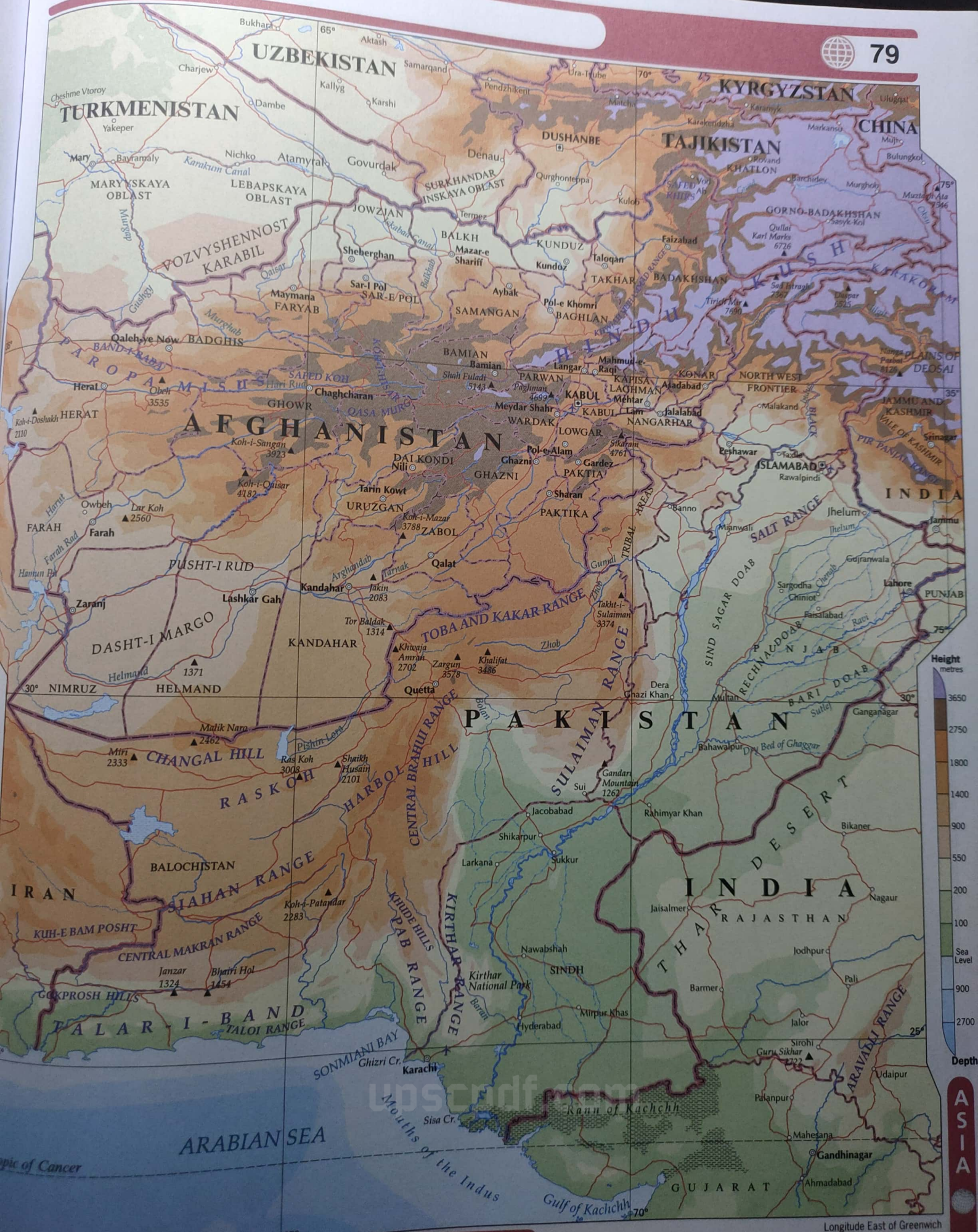


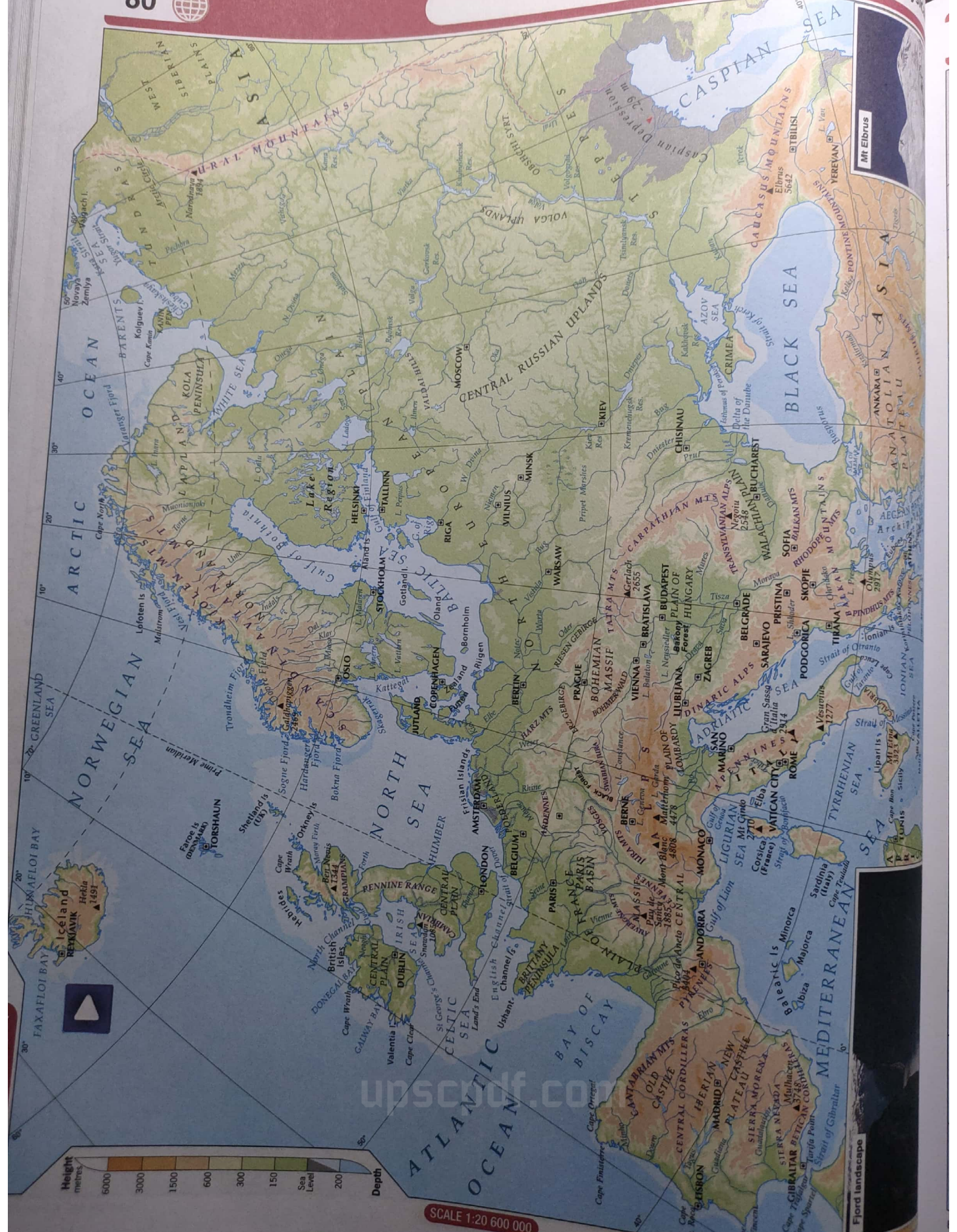




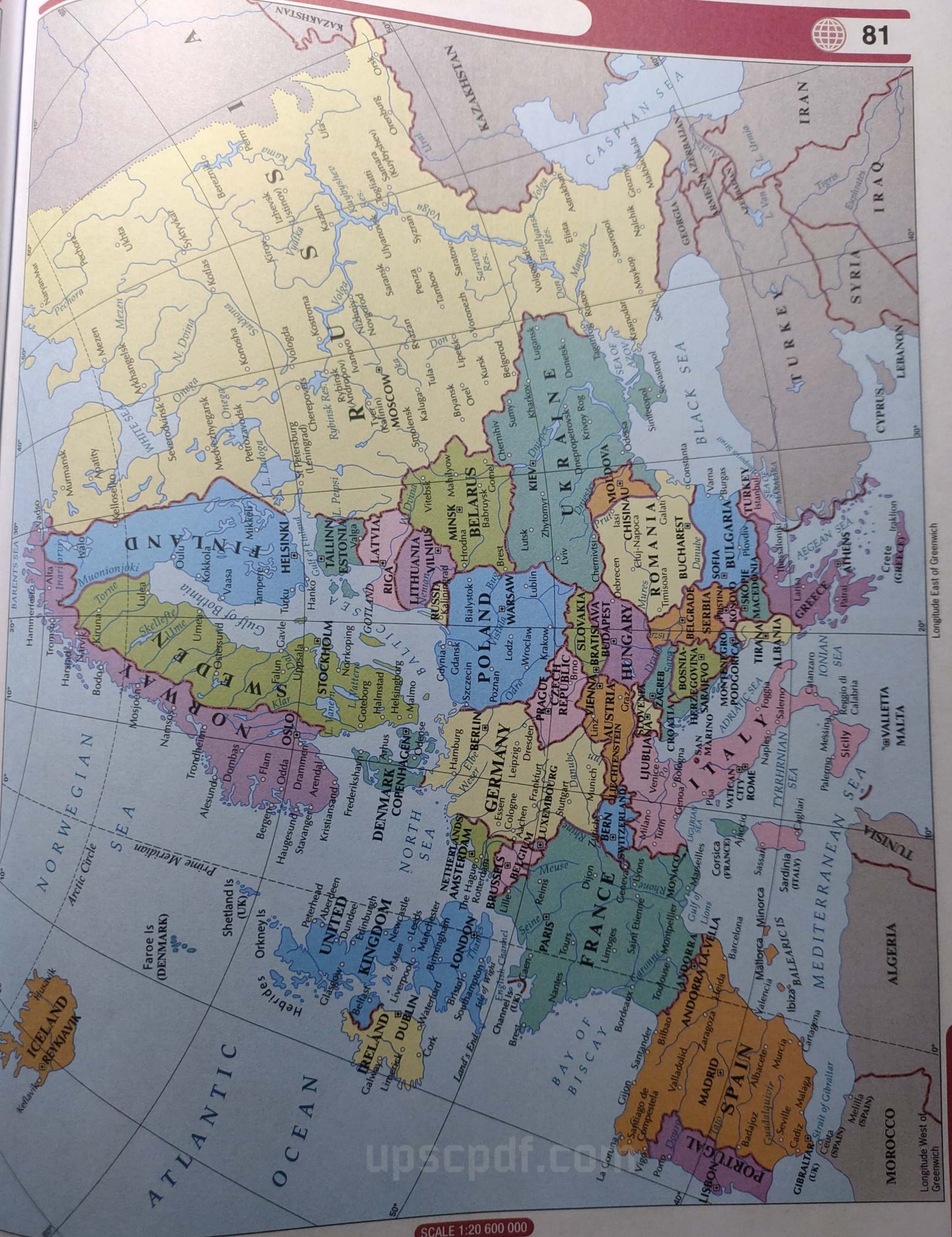
SCALE 1:15 000 000

Afghanistan and Pakistan





SCALE 1:20 600 000



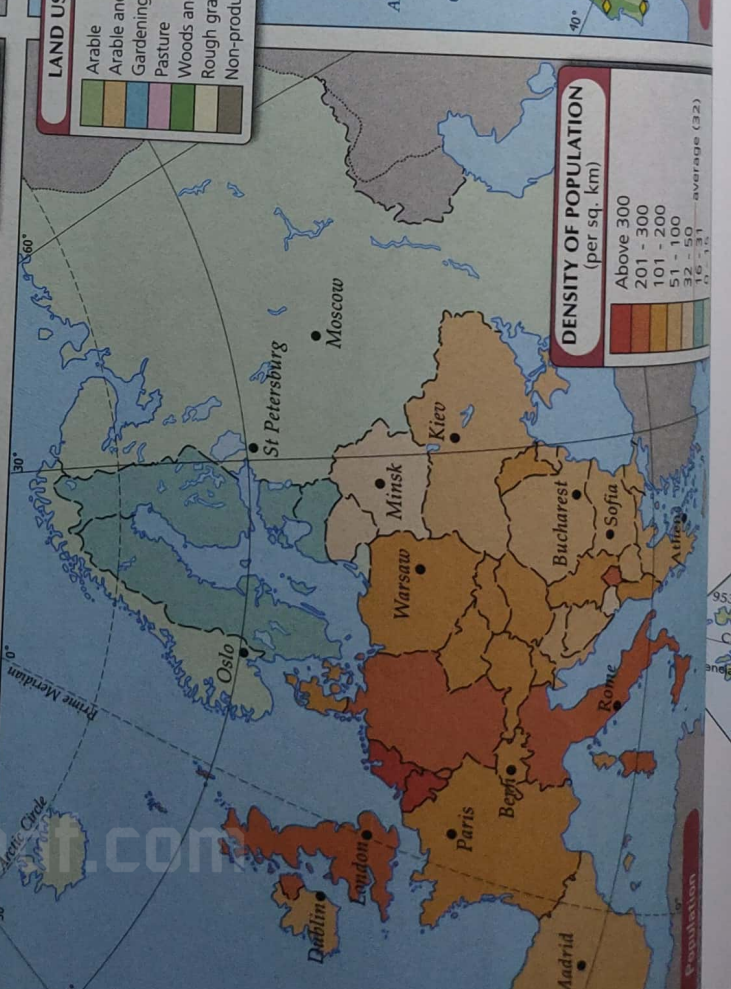
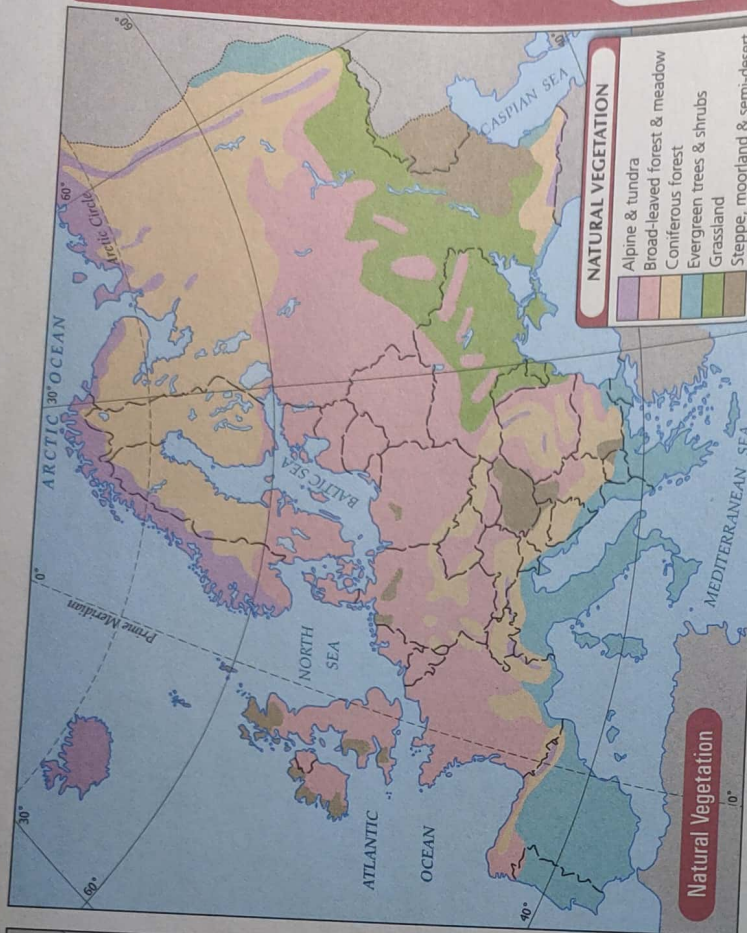
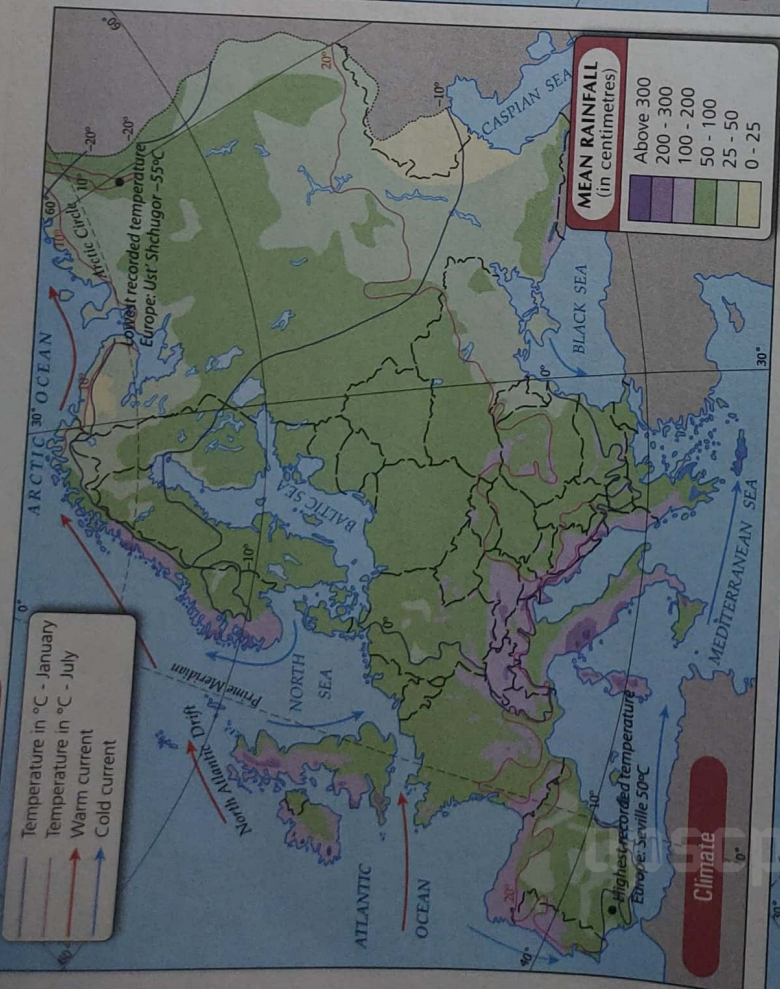
Longitude East of Greenwich

Longitude West of Greenwich

EUROPE



Climate, Natural Vegetation, Population and Economy



SCALE 1:44 000 000

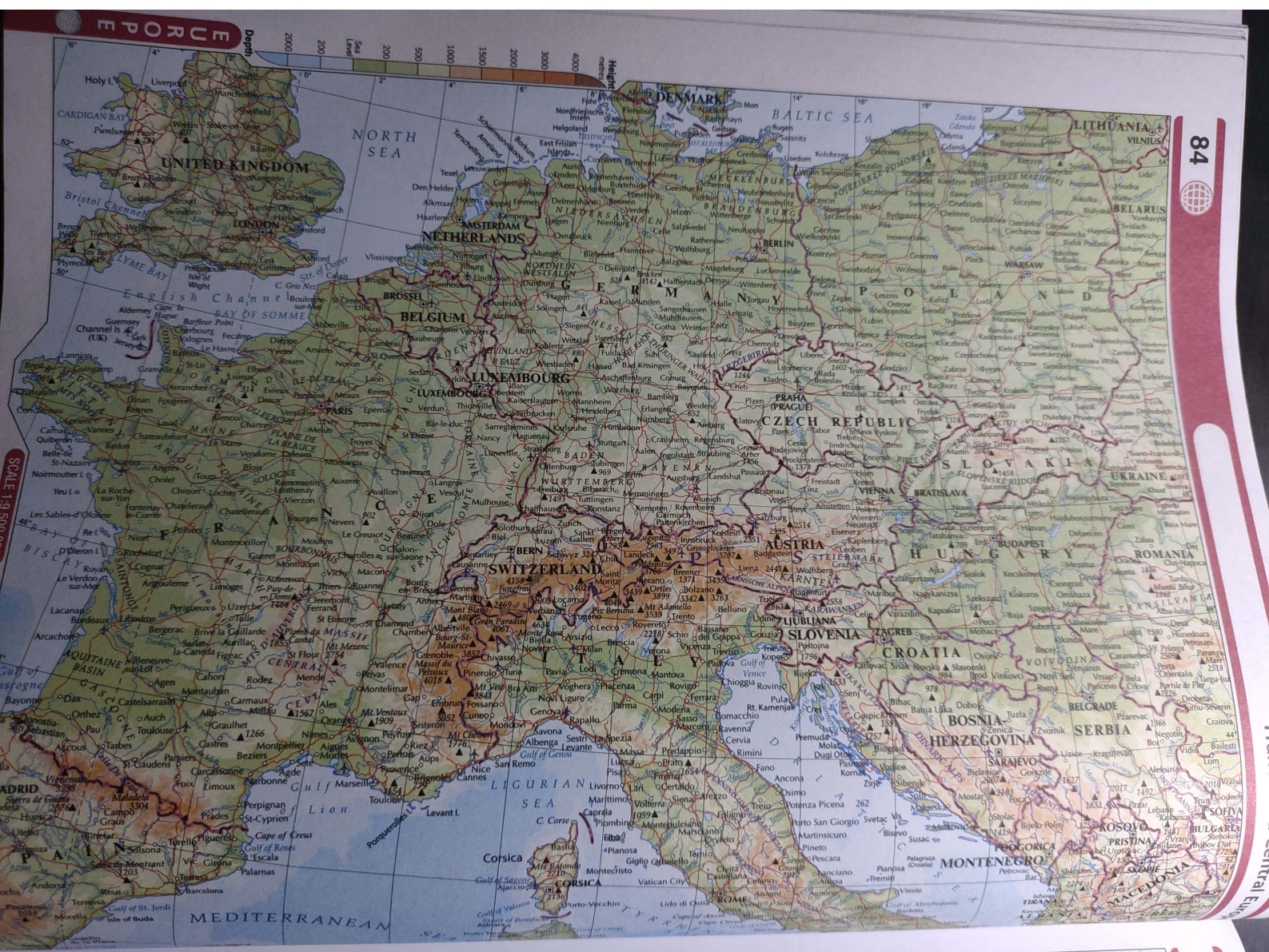
British Isles

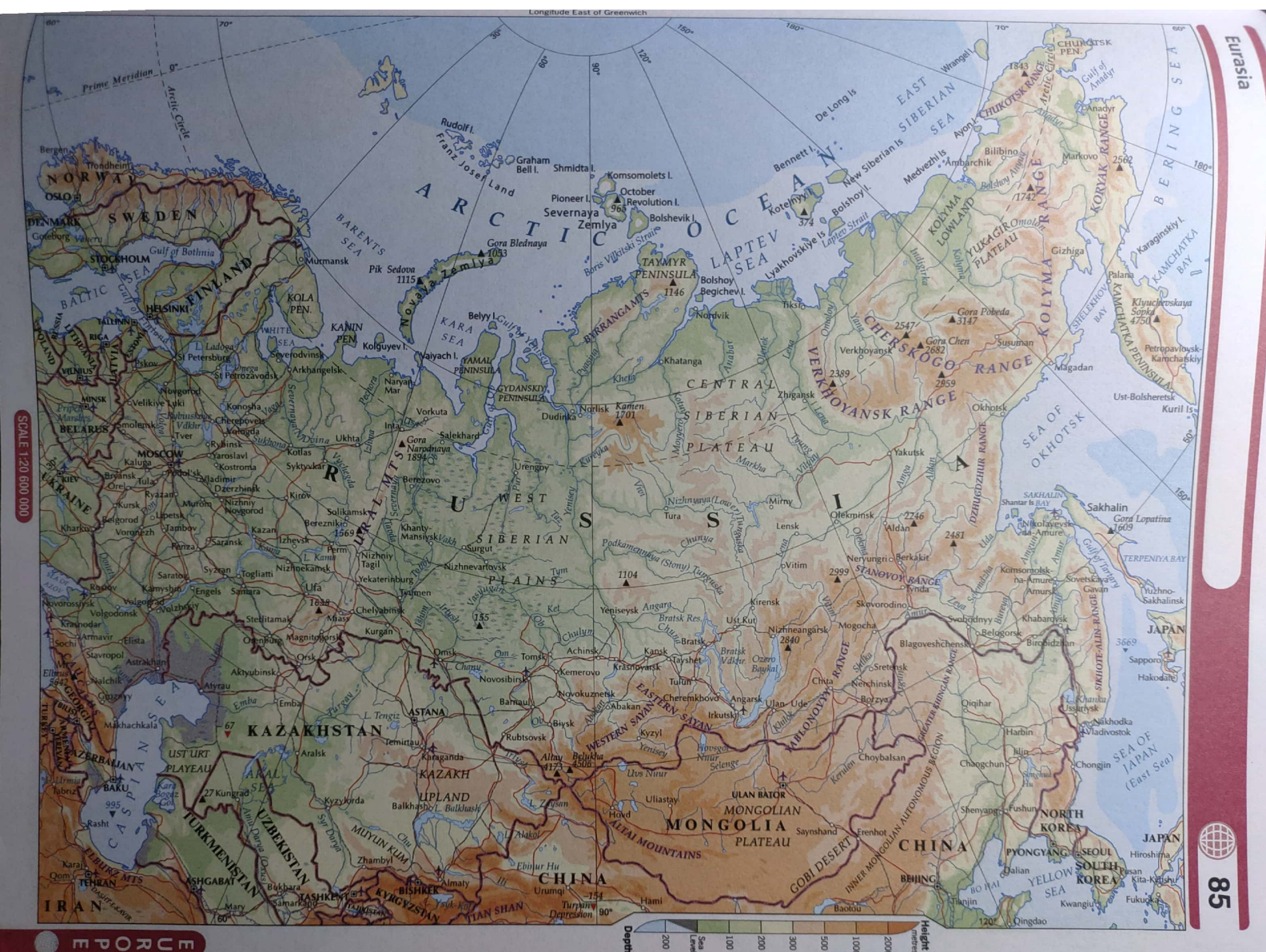


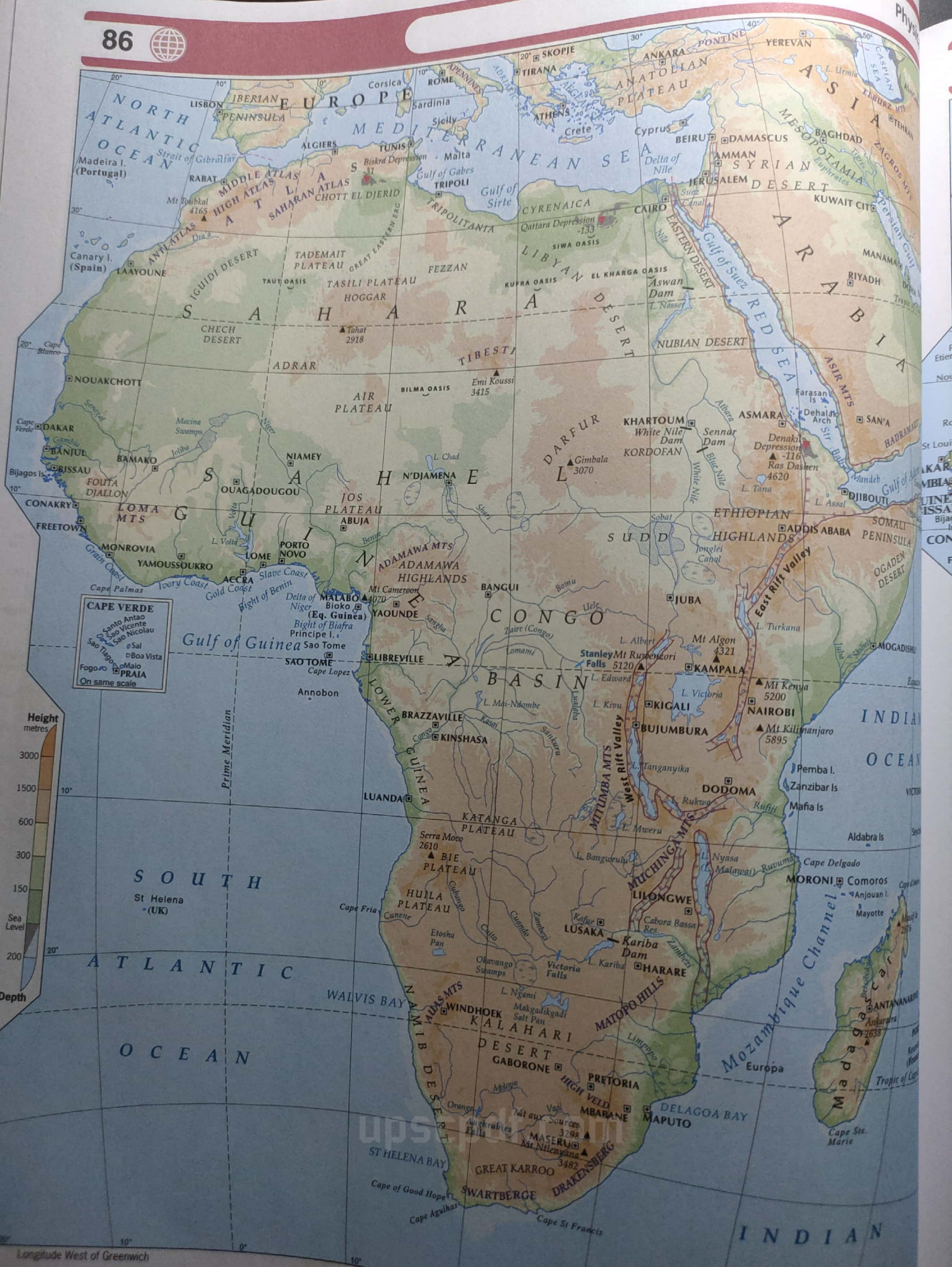
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Longitude West of Greenwich

Longitude East of Greenwich





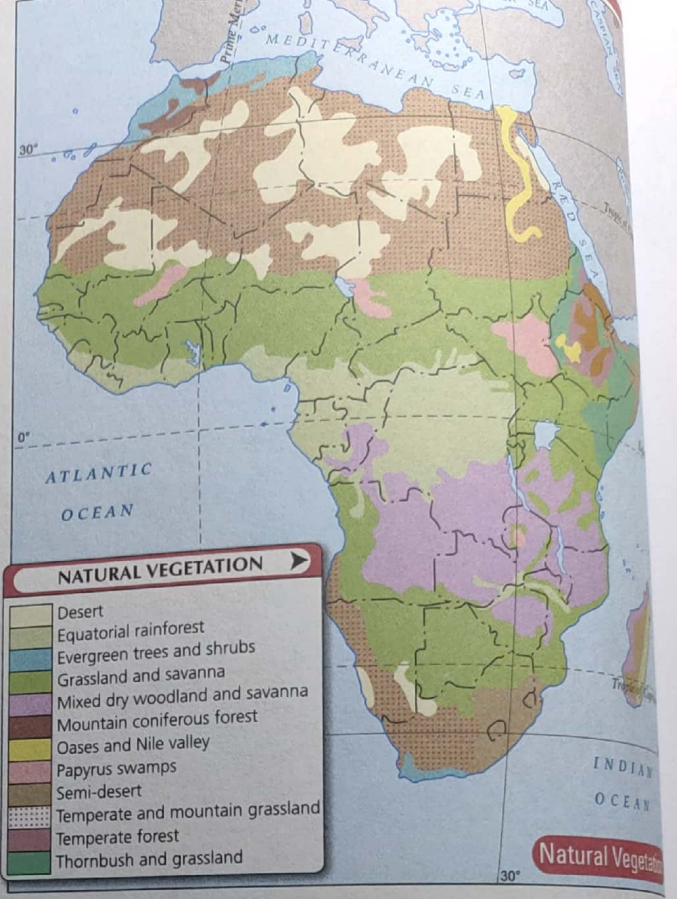
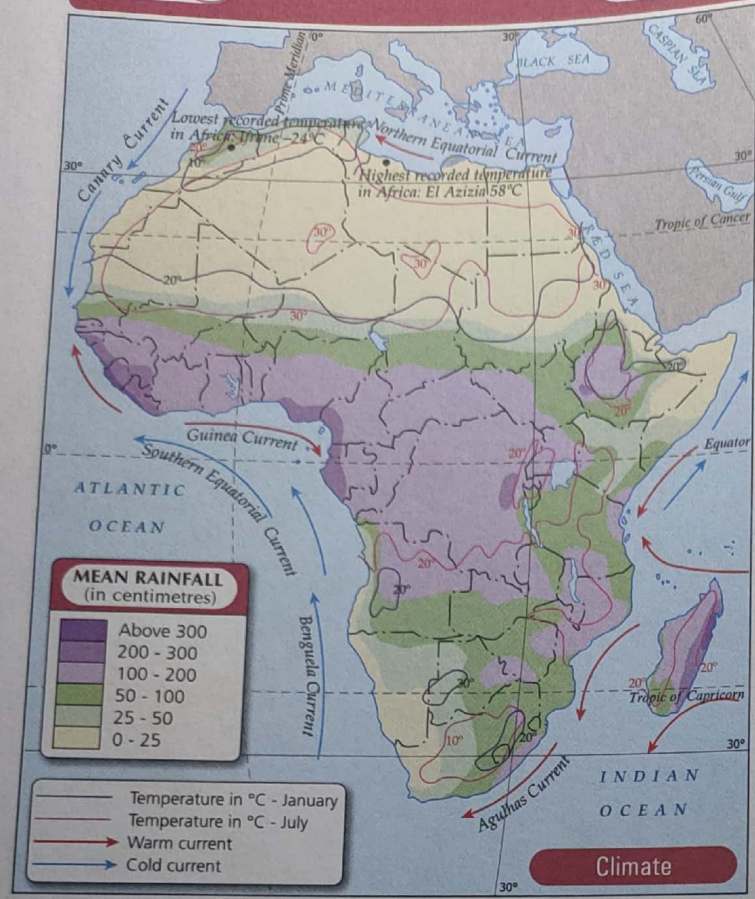




CAPE VERDE
 Santo Antao
 Sao Vicente
 Nicolau
 Sal
 Boa Vista
 Fogo
 Maio
PRAIA
 On same scale

SCALE 1:38 000 000

Lambert's Zenithal Equal Area Projection

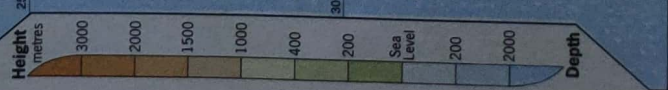


AFRICA

SCALE 1:81 000 000



SCALE 1:13 100 000



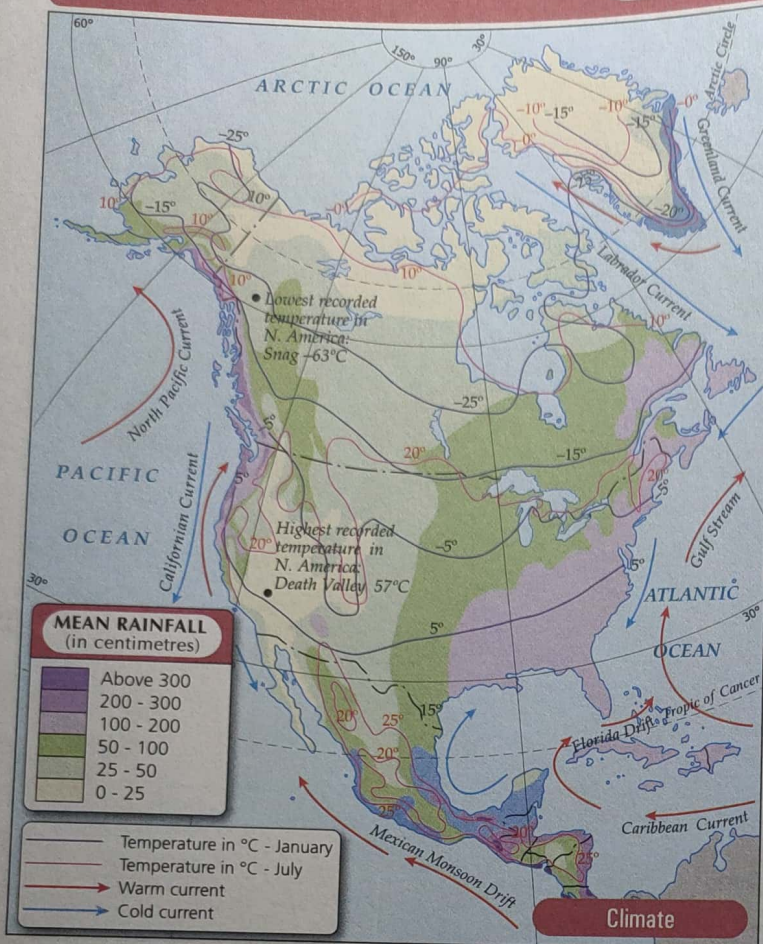
Equivalent Azimuthal Projection



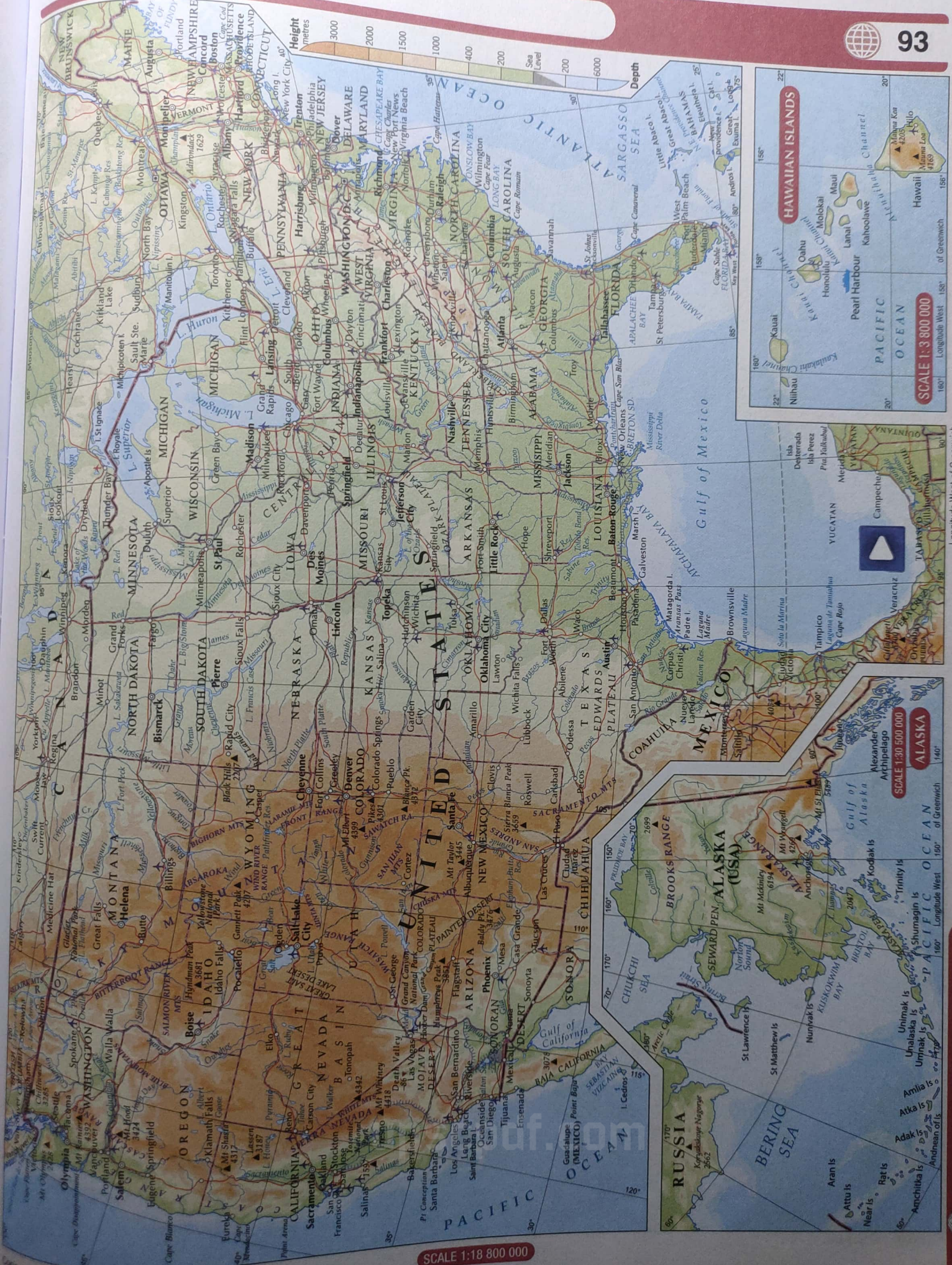
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SCALE 1:34 500 000





SCALE 1:75 000 000



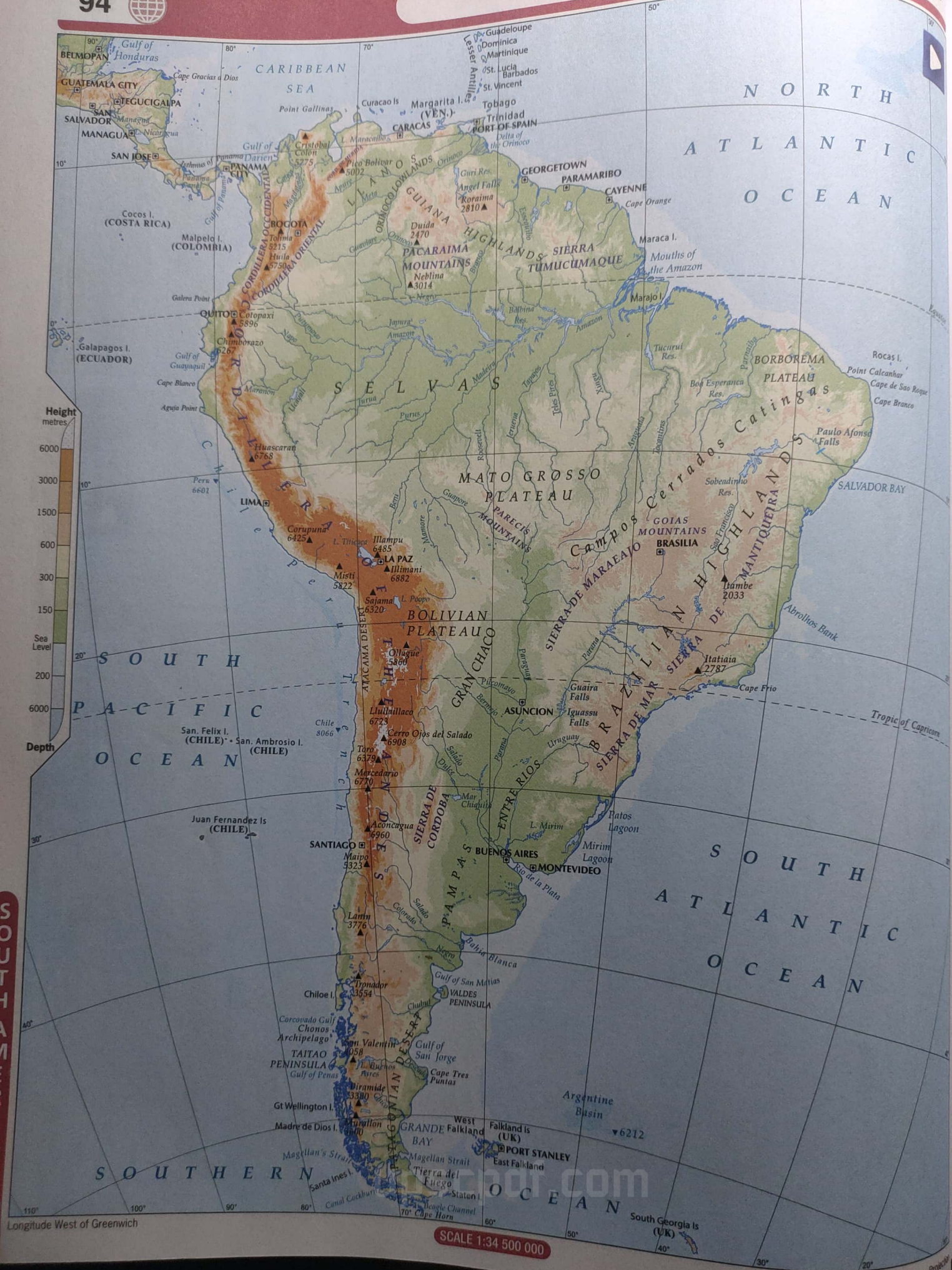
SCALE 1:18 800 000

HAWAIIAN ISLANDS

SCALE 1:3 800 000

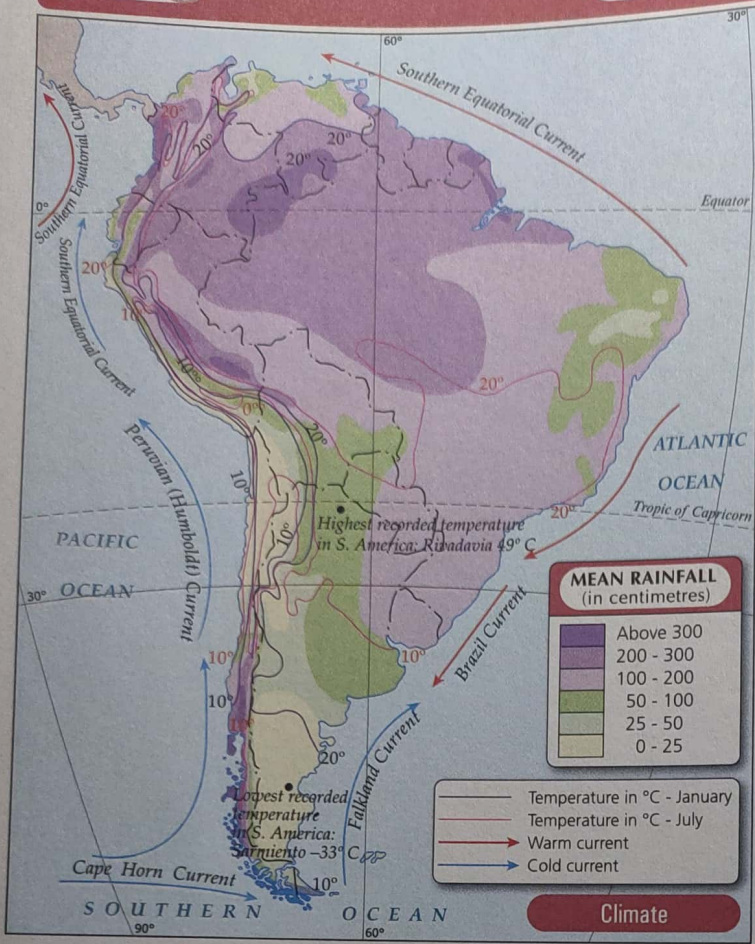
SCALE 1:3 000 000

NORTH AMERICA



SCALE 1:34 500 000

Lambert Equal Area Projection



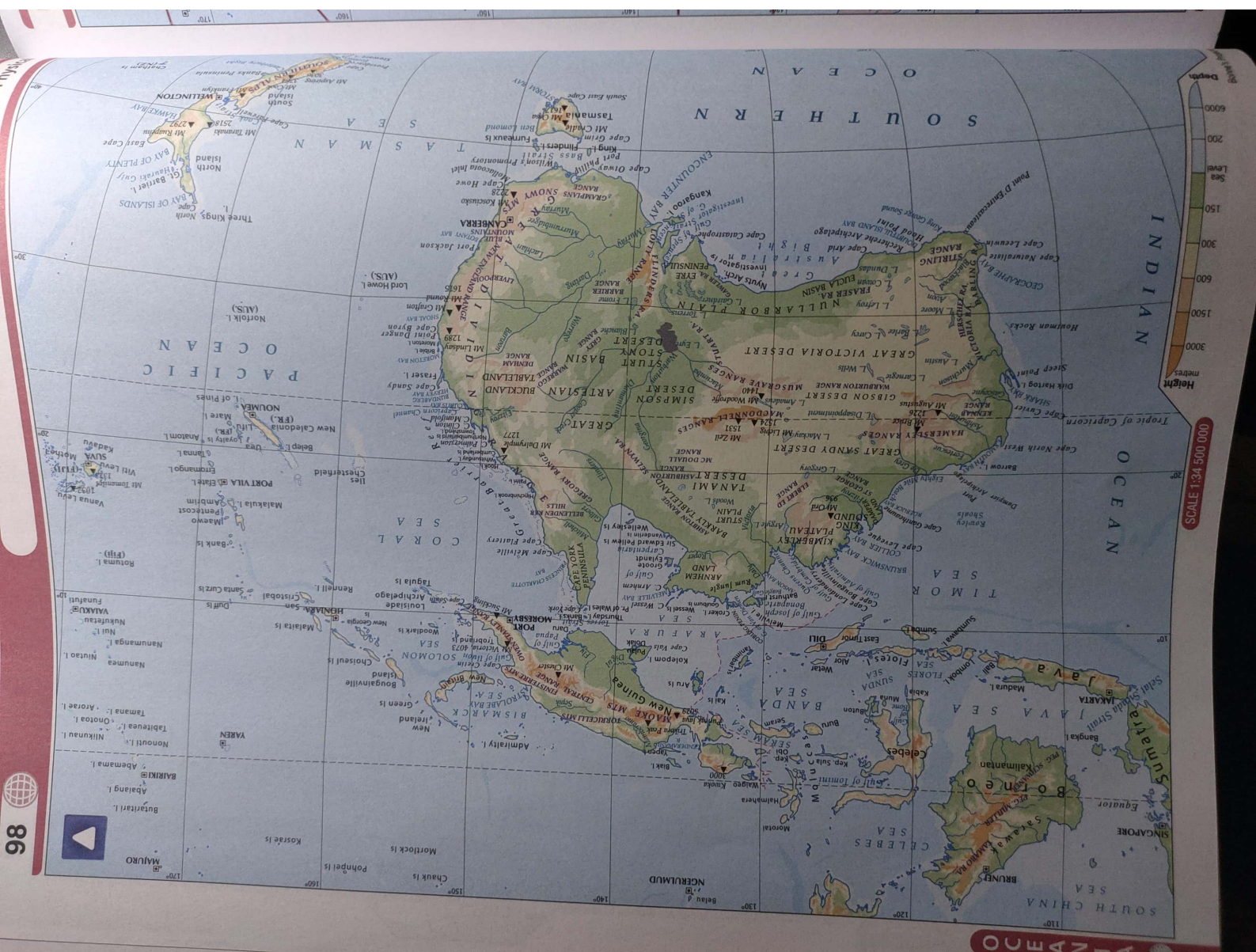
SOUTH AMERICA

Data source: The World Bank, 2015

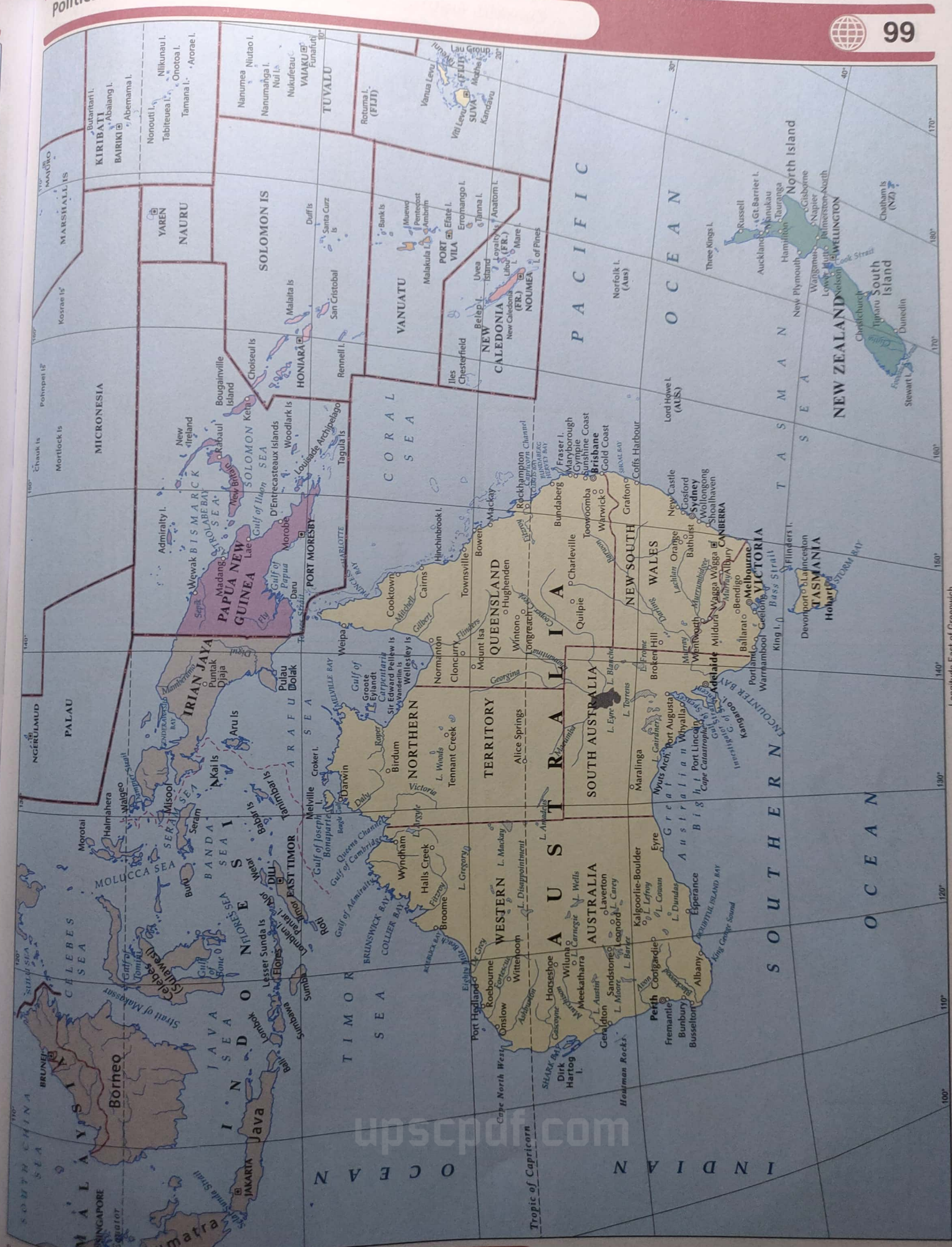
SCALE 1:66 000 000



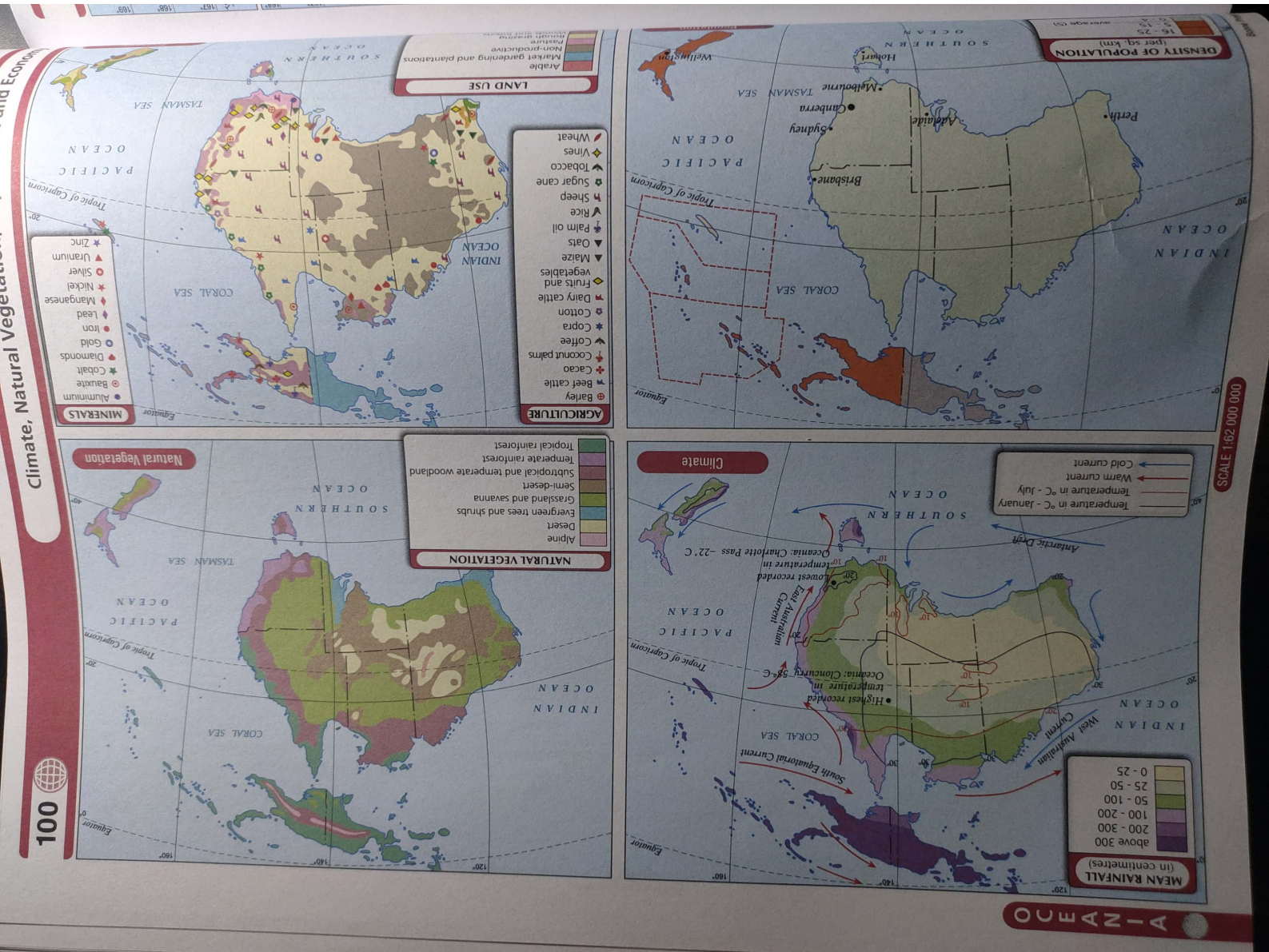
Rajasthan, Gujarat, Daman & Diu and Dadra & Nagar Haveli



Political

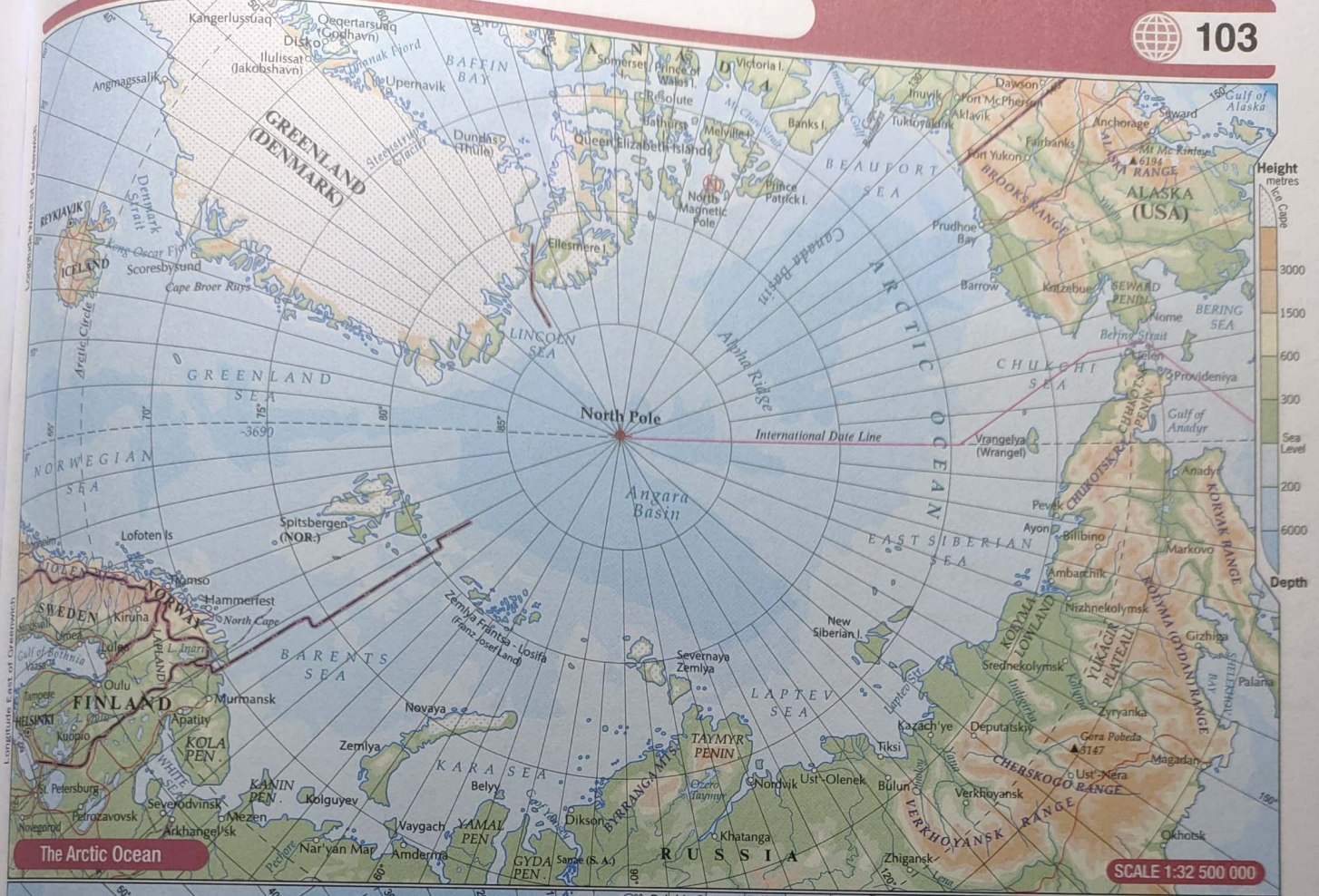


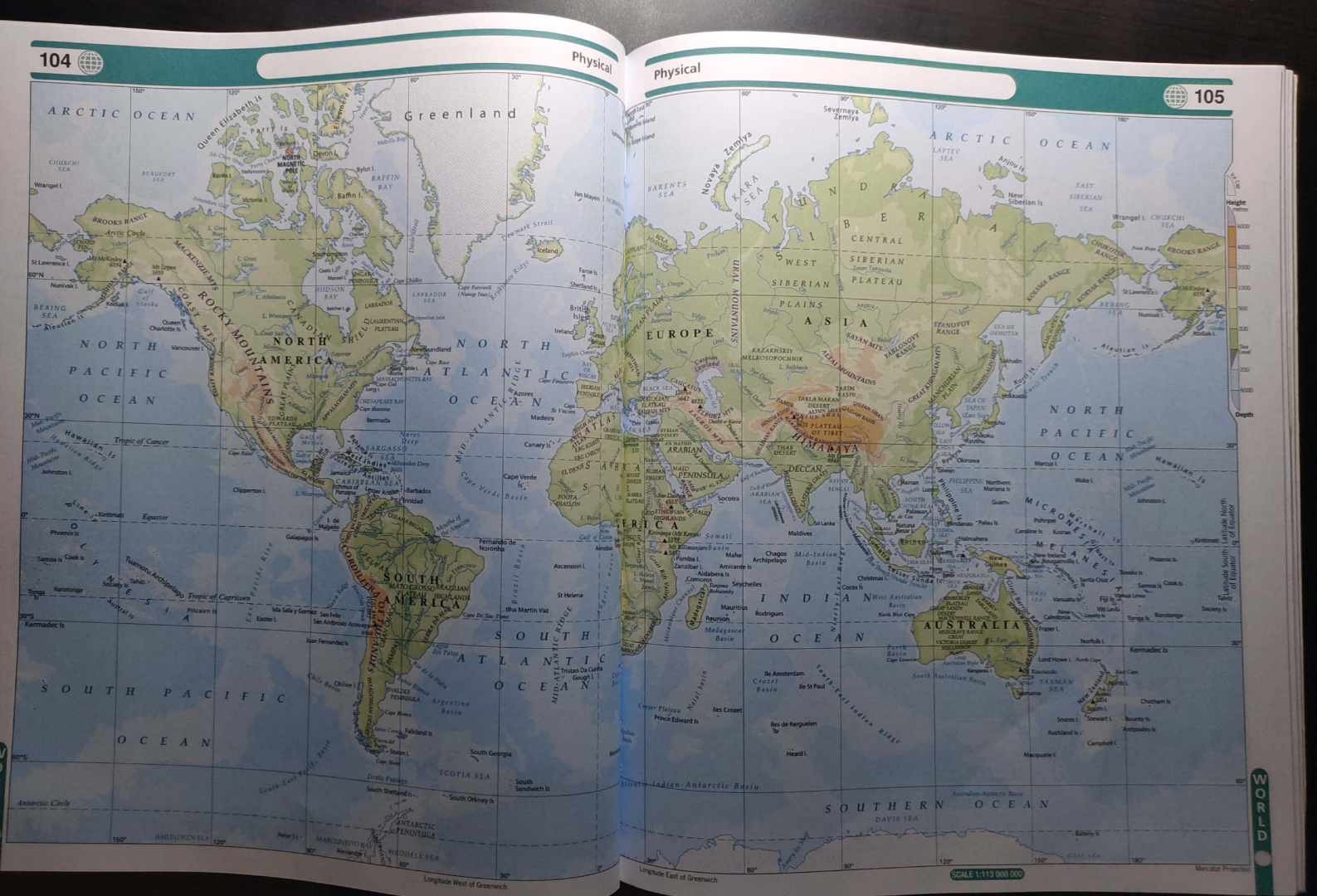
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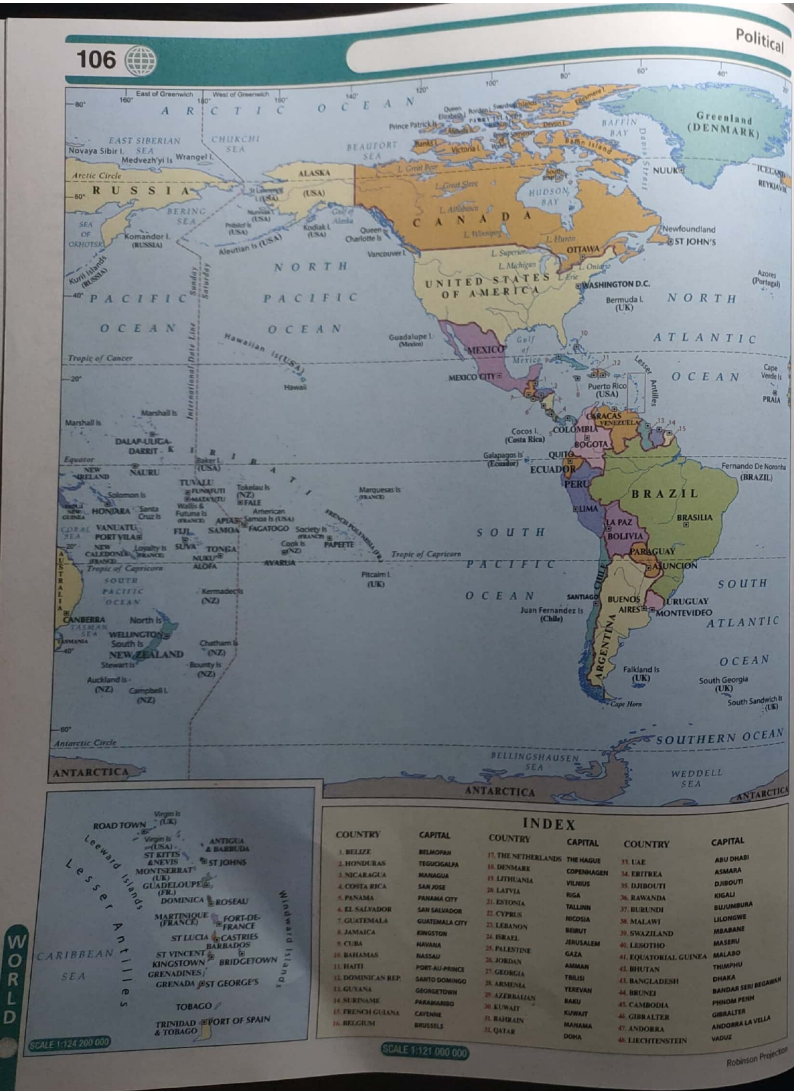


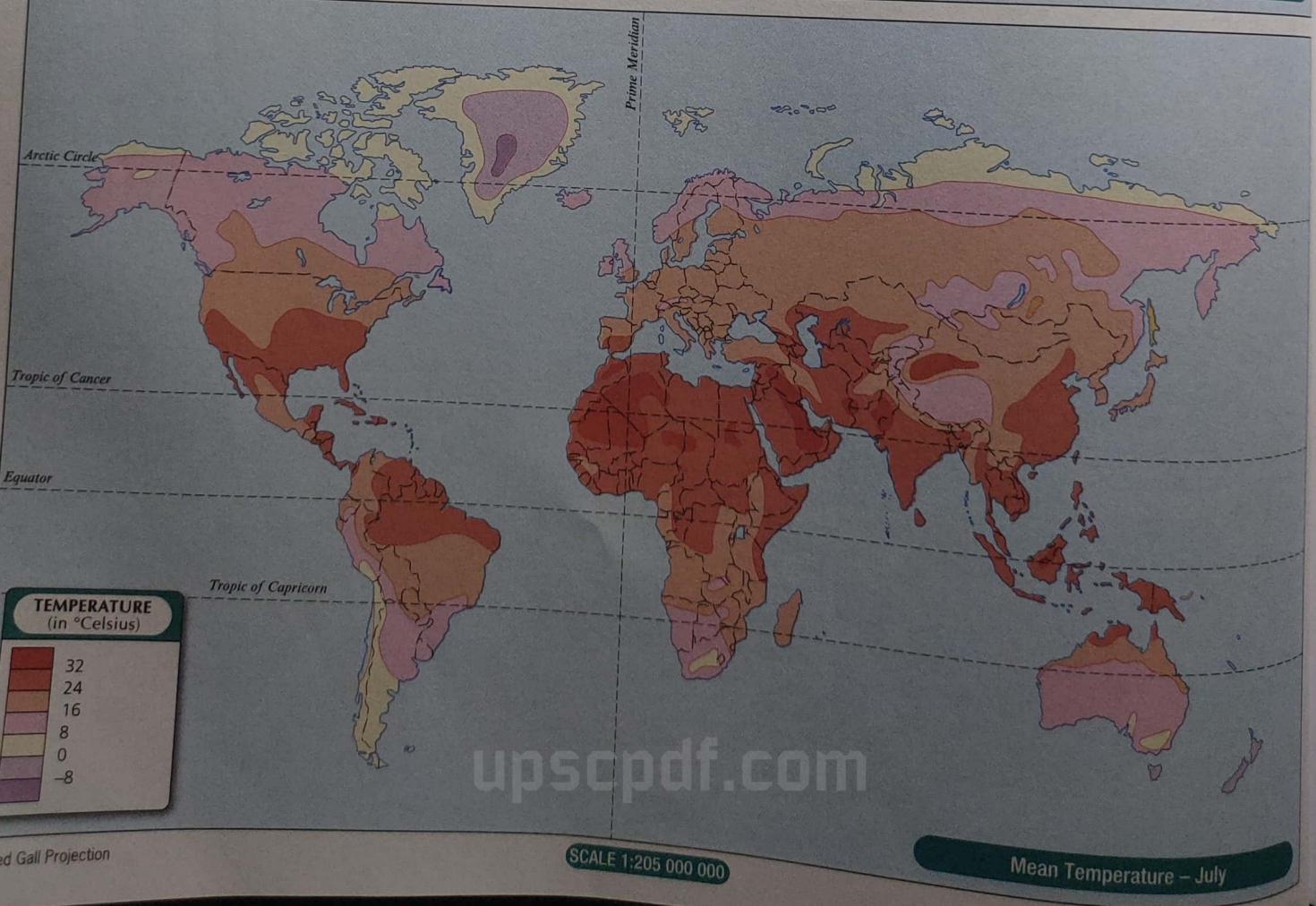
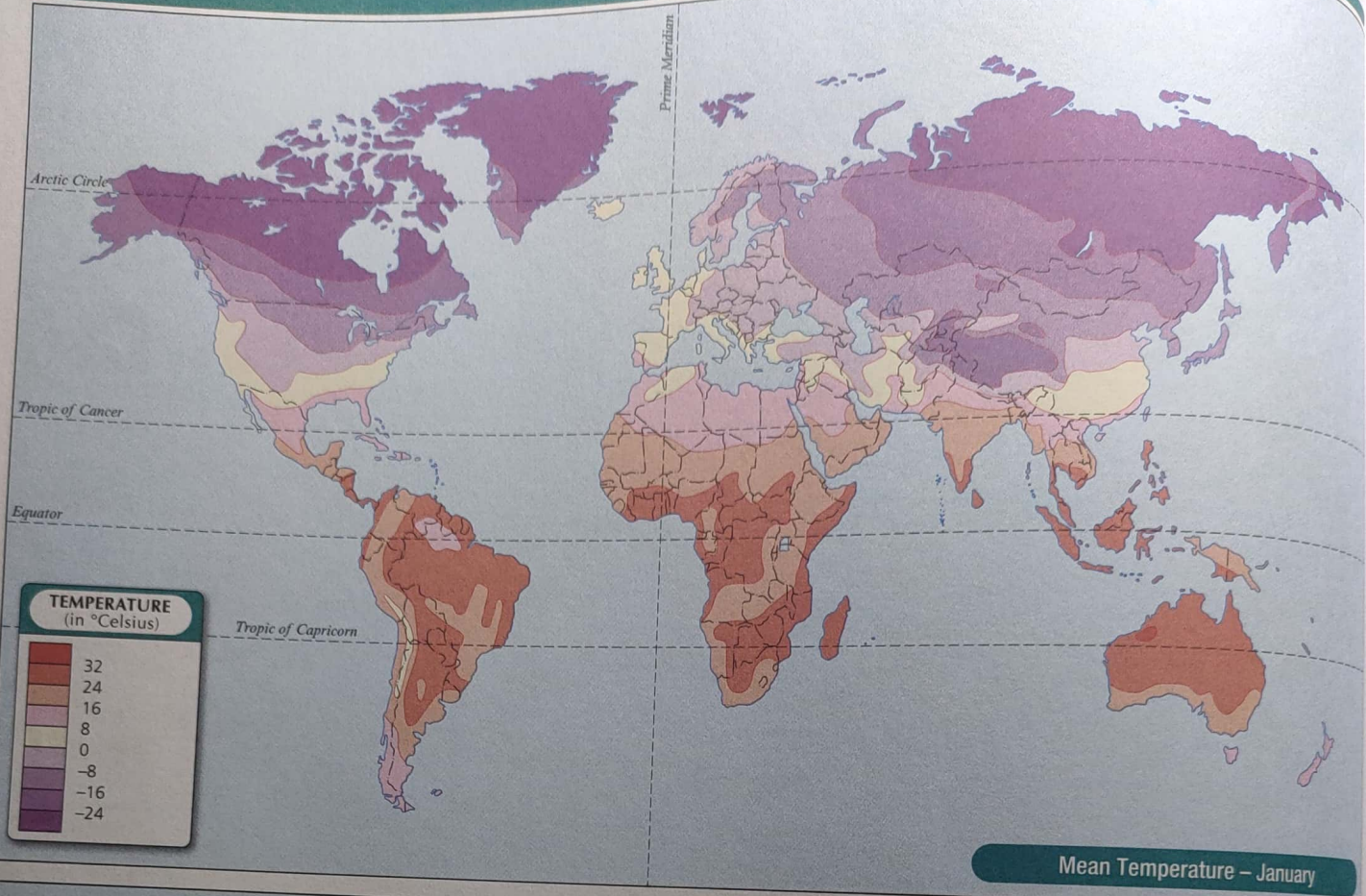


The Arctic Ocean and Antarctica







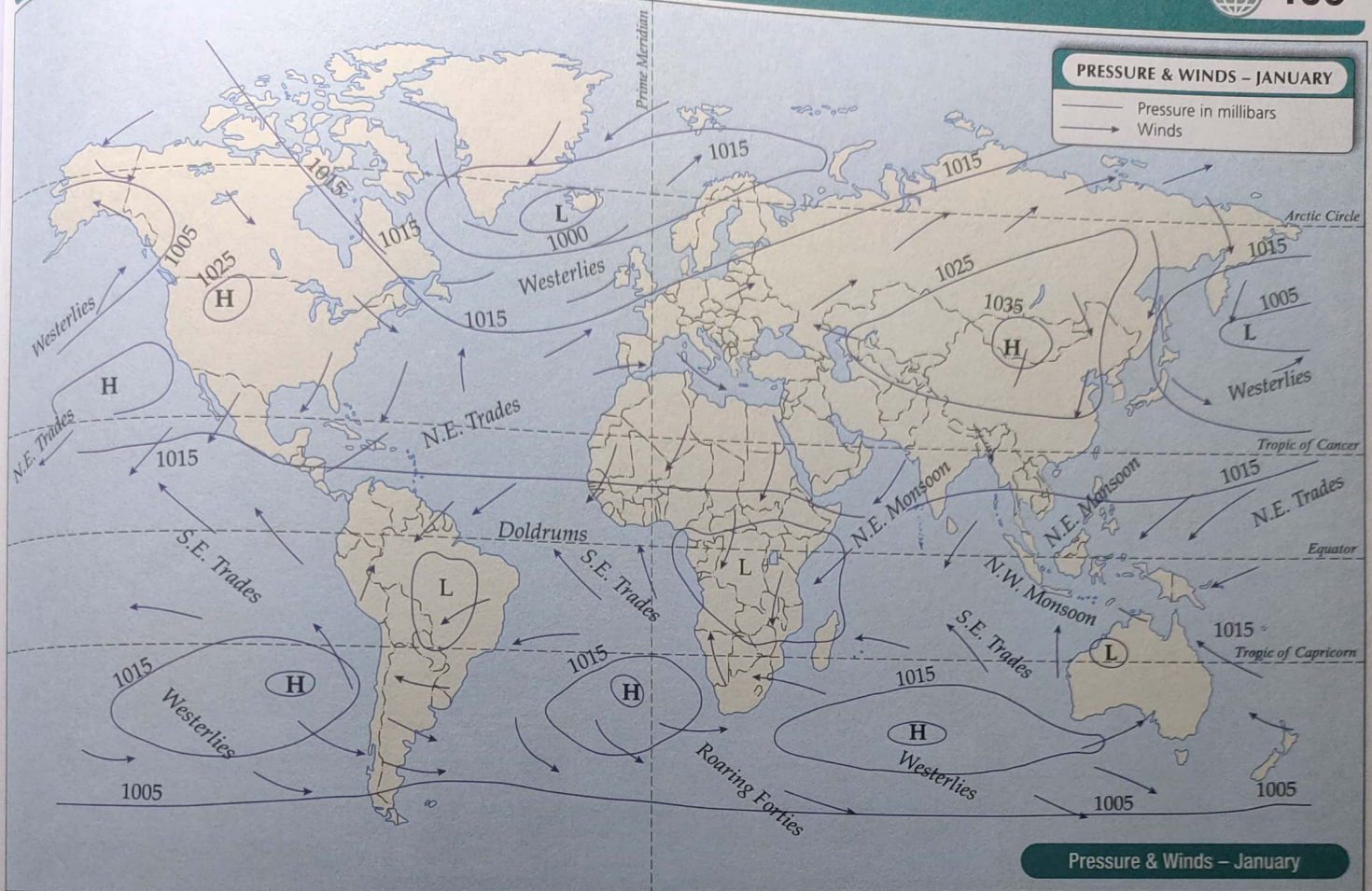


upscpdf.com

SCALE 1:205 000 000

Modified Gall Projection

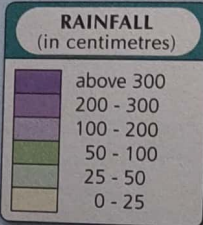
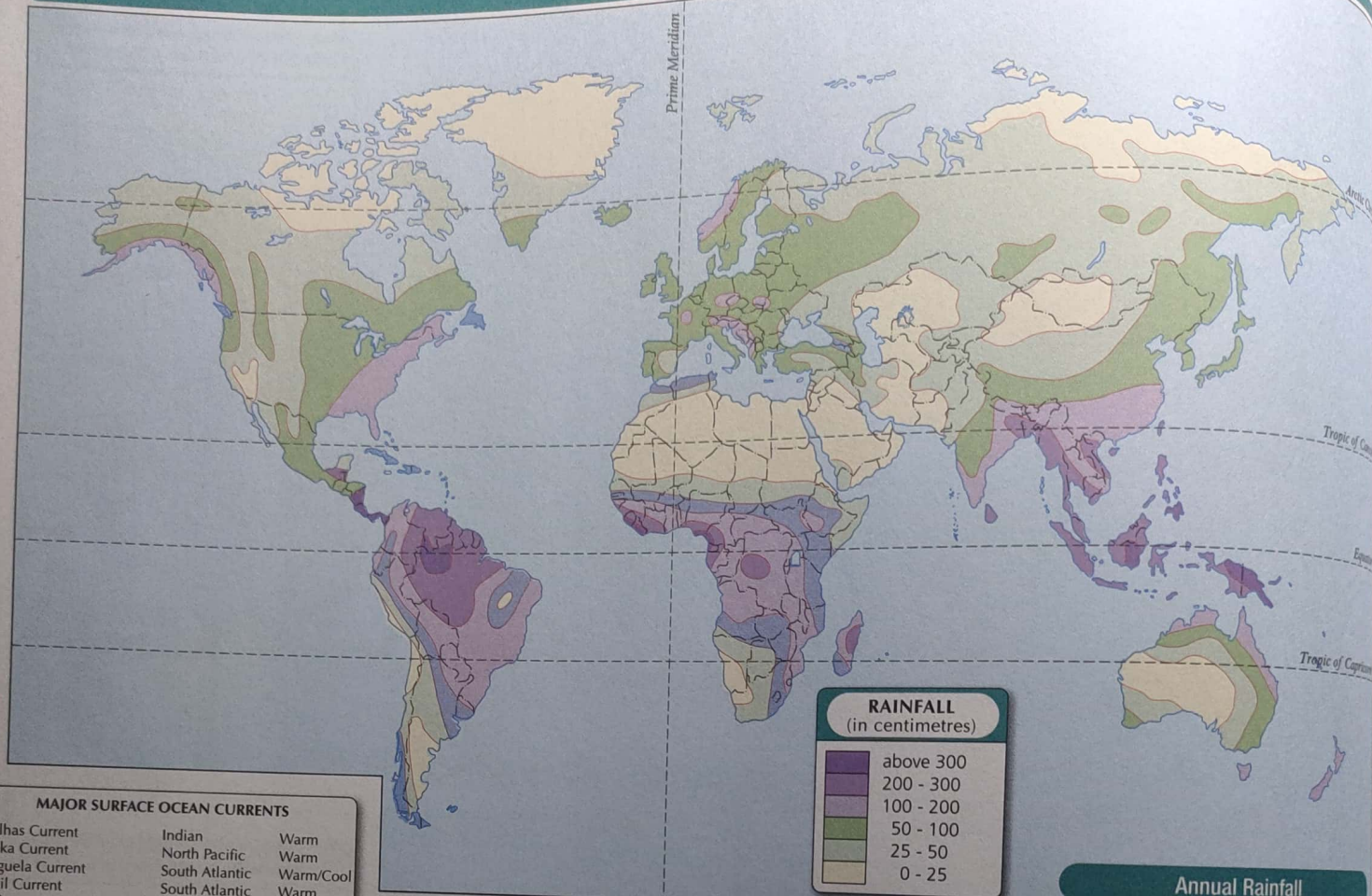
WORLD



SCALE 1:205 000 000

Modified Gull Projection

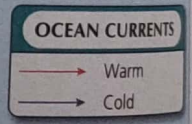
WORLD



Annual Rainfall

MAJOR SURFACE OCEAN CURRENTS




Agulhas Current	Indian	Warm
Alaska Current	North Pacific	Warm
Benguela Current	South Atlantic	Warm/Cool
Brazil Current	South Atlantic	Warm
California Current	North Pacific	Cool
Canary Current	North Atlantic	Warm
East Australian Current	South Pacific	Warm
Equatorial Current	Pacific	Warm
Gulf Stream	North Atlantic	Warm
Humboldt (Peru) Current	South Pacific	Cool
Kuro Siwo (Japan) Current	North Pacific	Warm
Labrador Current	North Atlantic	Cool
North Atlantic Drift	North Atlantic	Warm
North Pacific Drift	North Pacific	Warm
Oya Siwo Current	North Pacific	Cool
West Australian Current	Indian	Cool
West Wind Drift	South Pacific	Cool



SCALE 1:205 000 000

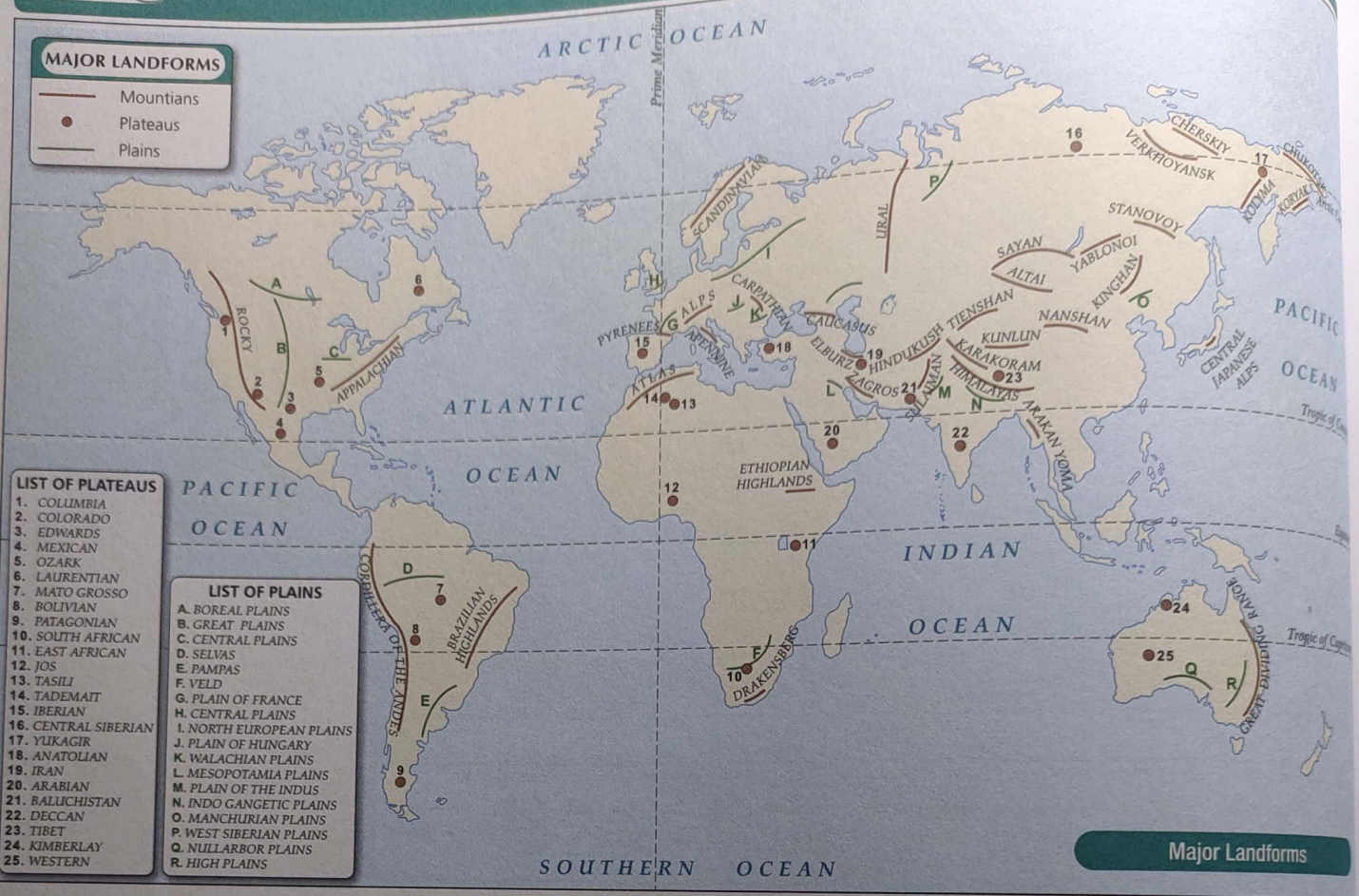
Major Ocean Currents

MAJOR LANDFORMS

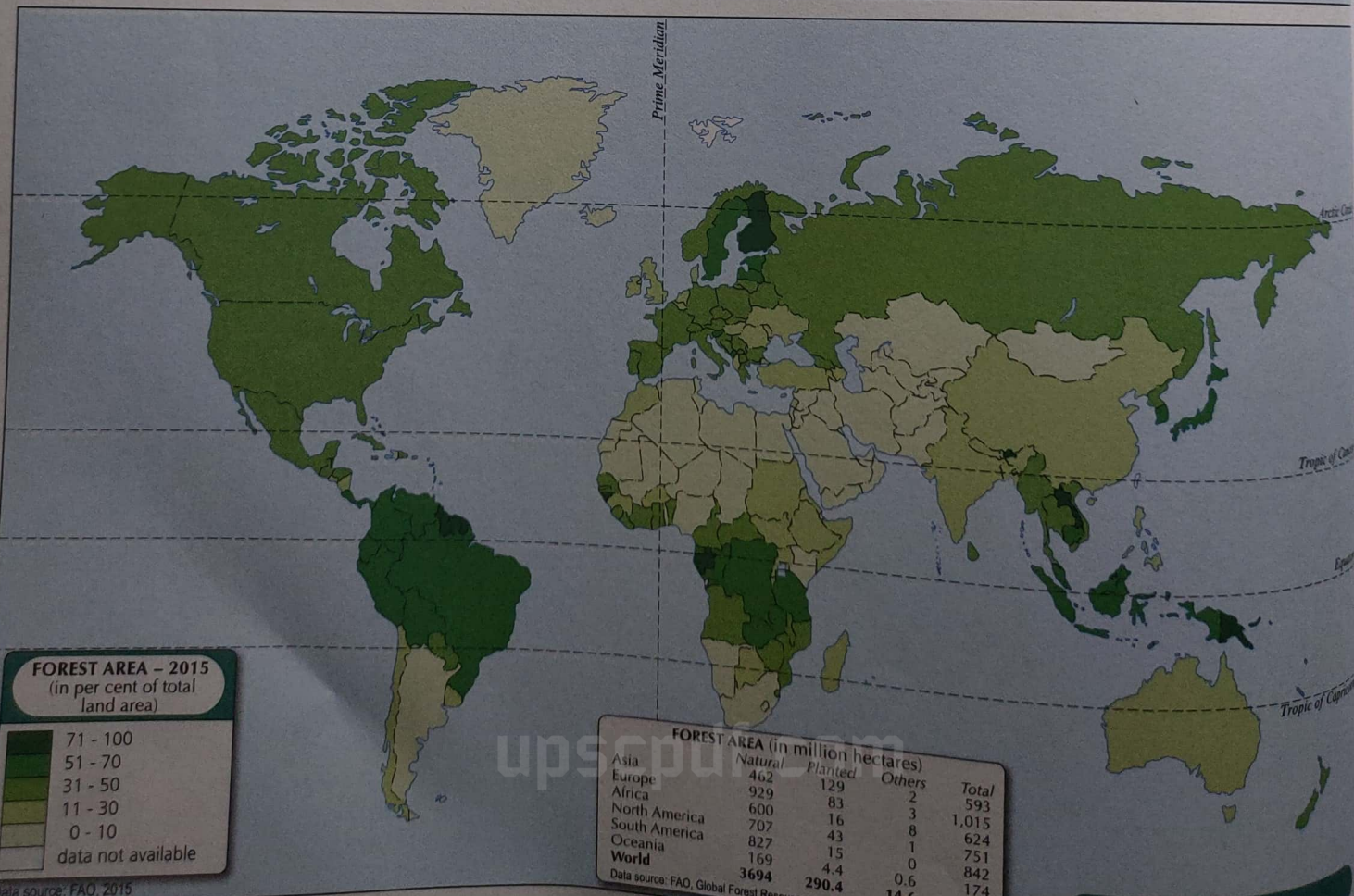
-  Mountains
-  Plateaus
-  Plains

- LIST OF PLATEAUS**
1. COLUMBIA
 2. COLORADO
 3. EDWARDS
 4. MEXICAN
 5. OZARK
 6. LAURENTIAN
 7. MATO GROSSO
 8. BOLIVIAN
 9. PATAGONIAN
 10. SOUTH AFRICAN
 11. EAST AFRICAN
 12. JOS
 13. TASILI
 14. TADEMAIT
 15. IBERIAN
 16. CENTRAL SIBERIAN
 17. YUKAGIR
 18. ANATOLIAN
 19. IRAN
 20. ARABIAN
 21. BALUCHISTAN
 22. DECCAN
 23. TIBET
 24. KIMBERLEY
 25. WESTERN







- LIST OF PLAINS**
- A. BOREAL PLAINS
 - B. GREAT PLAINS
 - C. CENTRAL PLAINS
 - D. SELVAS
 - E. PAMPAS
 - F. VELD
 - G. PLAIN OF FRANCE
 - H. CENTRAL PLAINS
 - I. NORTH EUROPEAN PLAINS
 - J. PLAIN OF HUNGARY
 - K. WALACHIAN PLAINS
 - L. MESOPOTAMIA PLAINS
 - M. PLAIN OF THE INDUS
 - N. INDO GANGETIC PLAINS
 - O. MANCHURIAN PLAINS
 - P. WEST SIBERIAN PLAINS
 - Q. NULLARBOR PLAINS
 - R. HIGH PLAINS



Major Landforms



FOREST AREA - 2015
(in per cent of total land area)

-  71 - 100
-  51 - 70
-  31 - 50
-  11 - 30
-  0 - 10
-  data not available

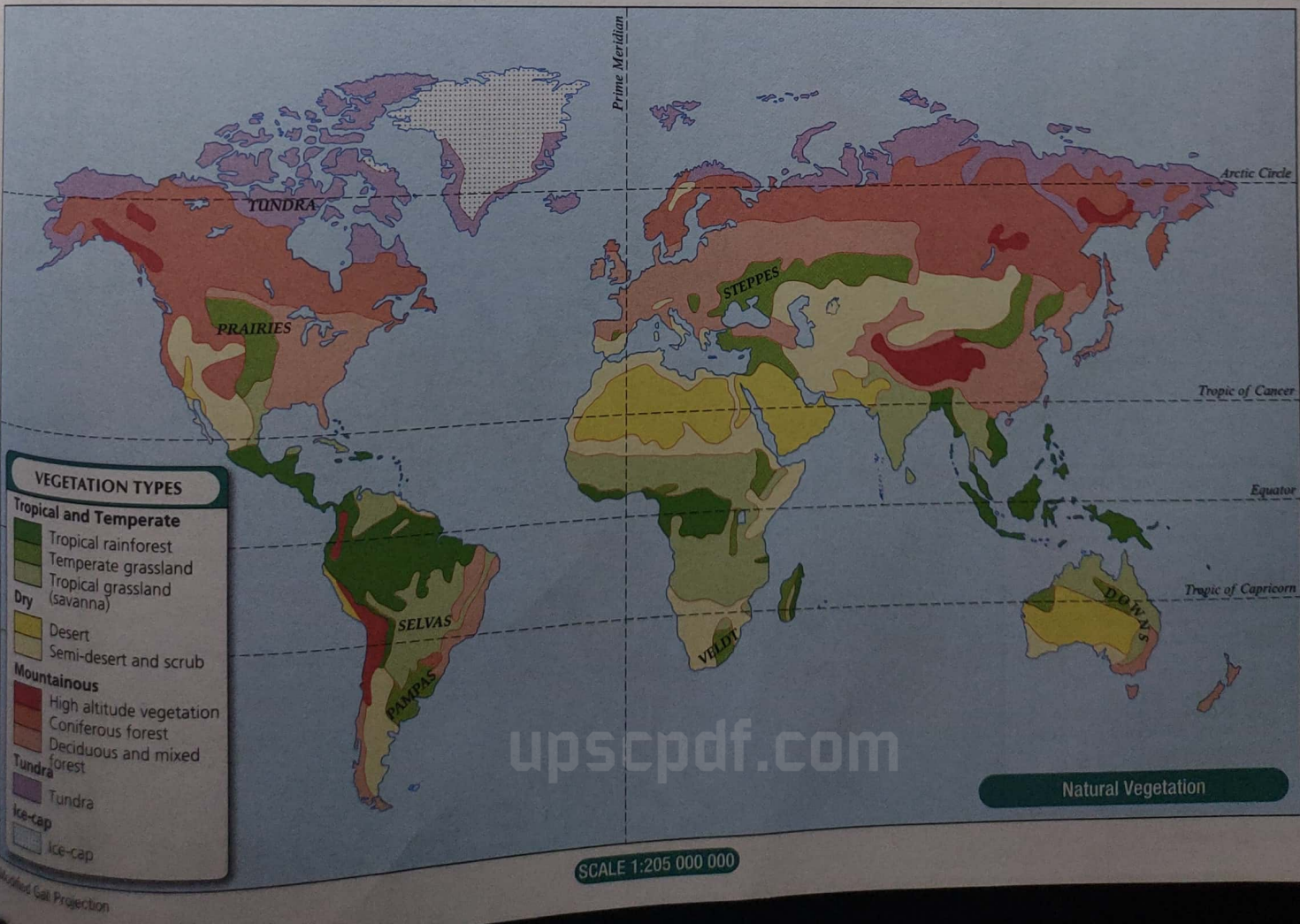
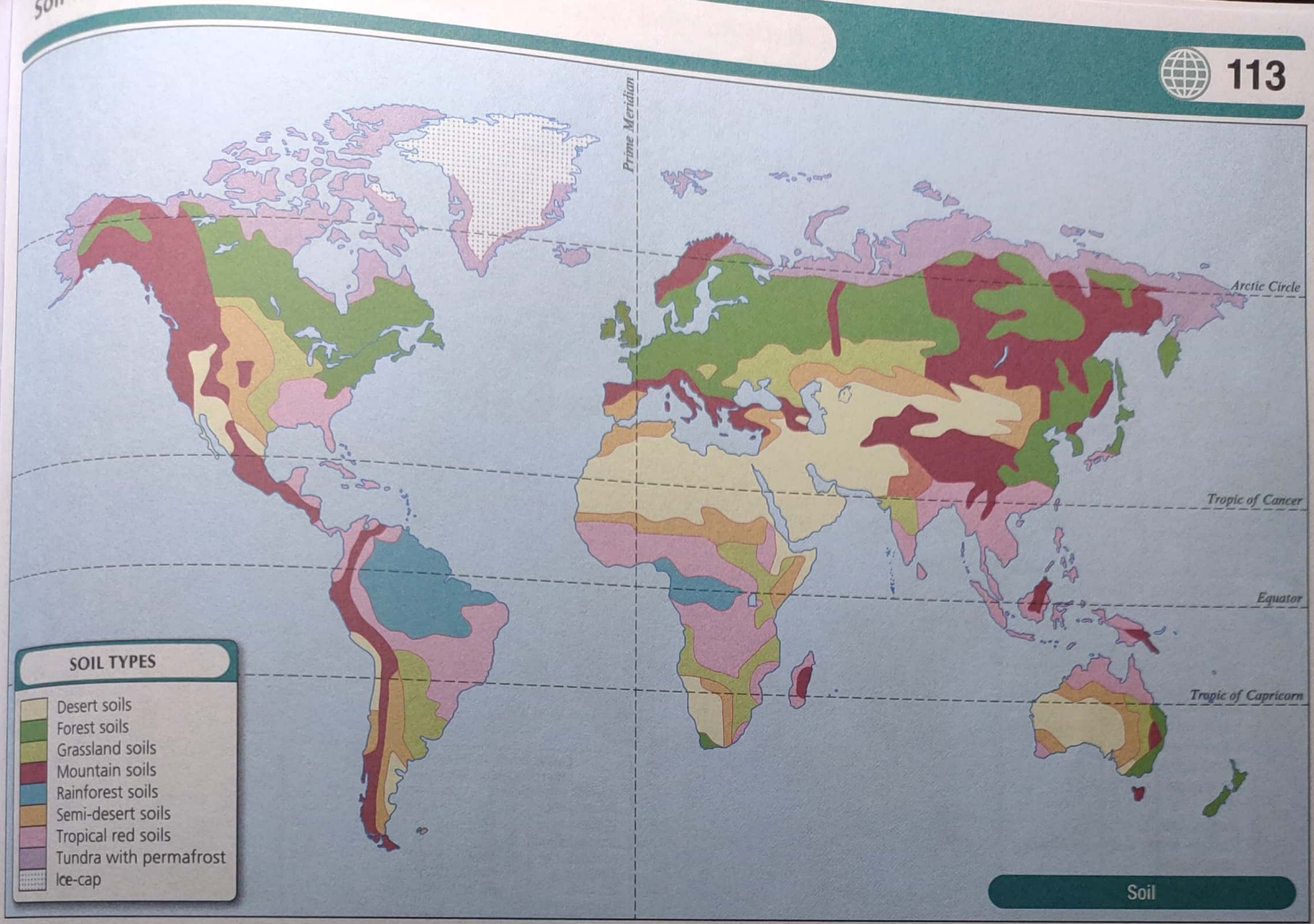
FOREST AREA (in million hectares)

	Natural	Planted	Others	Total
Asia	462	129	2	593
Europe	929	83	3	1,015
Africa	600	16	8	624
North America	827	43	1	751
South America	169	4.4	0	842
Oceania	3694	290.4	0.6	174
World			14.6	3999

Data source: FAO, Global Forest Resources Assessment 2015

SCALE 1:205 000 000

Forest Cover





Agriculture

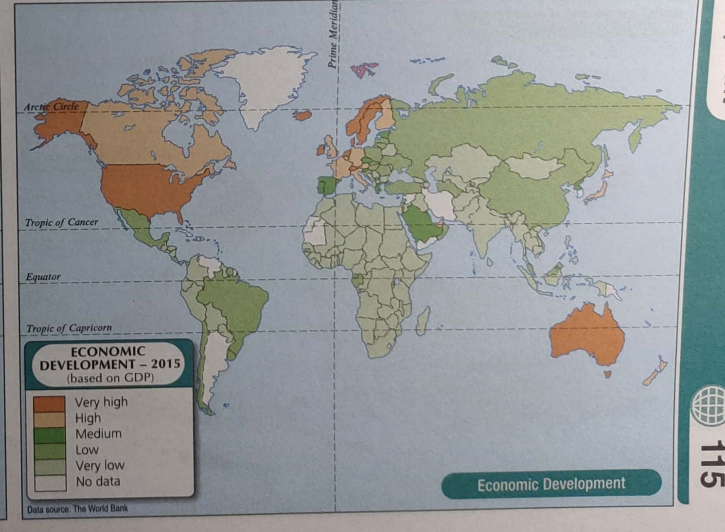
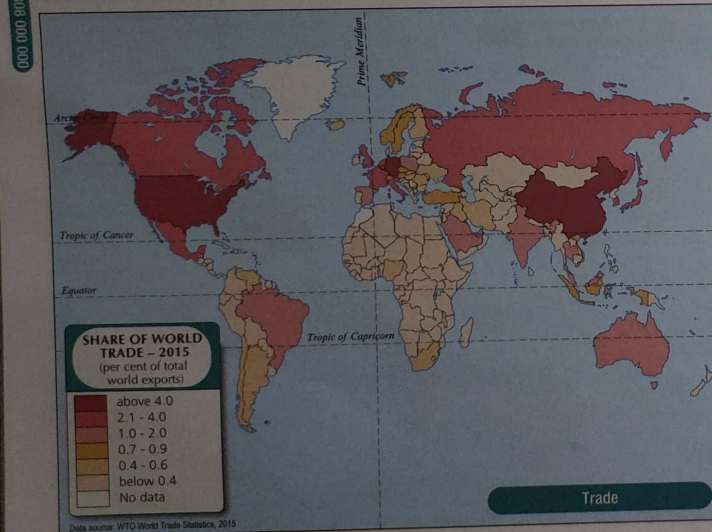


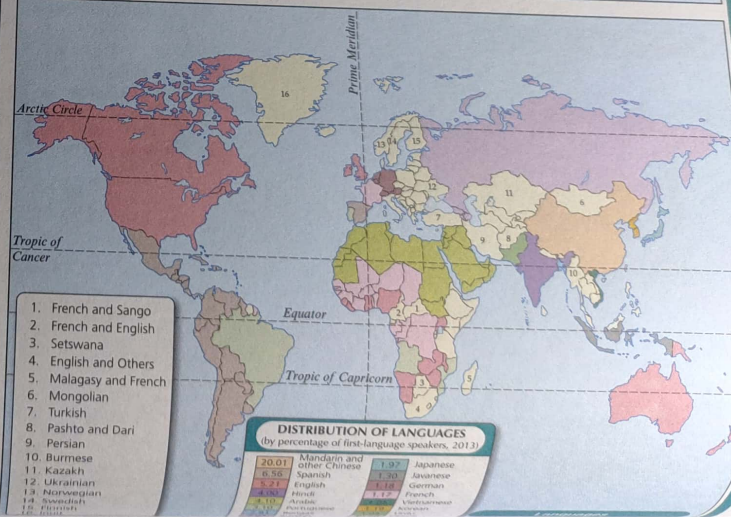
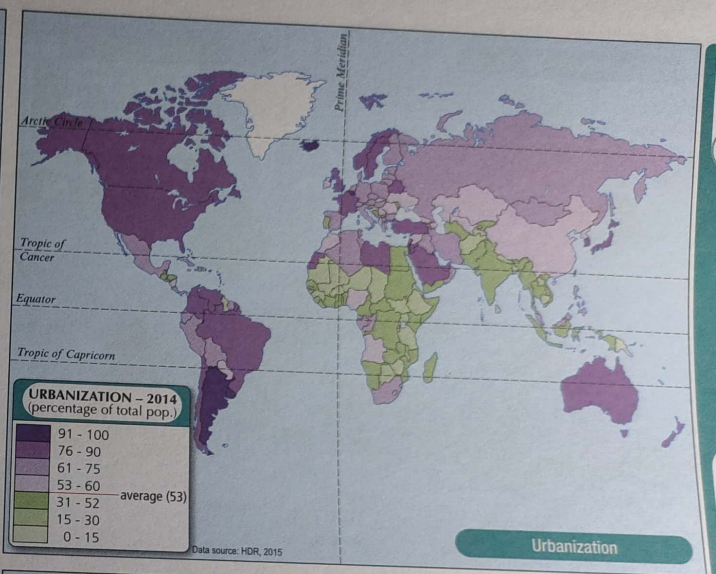
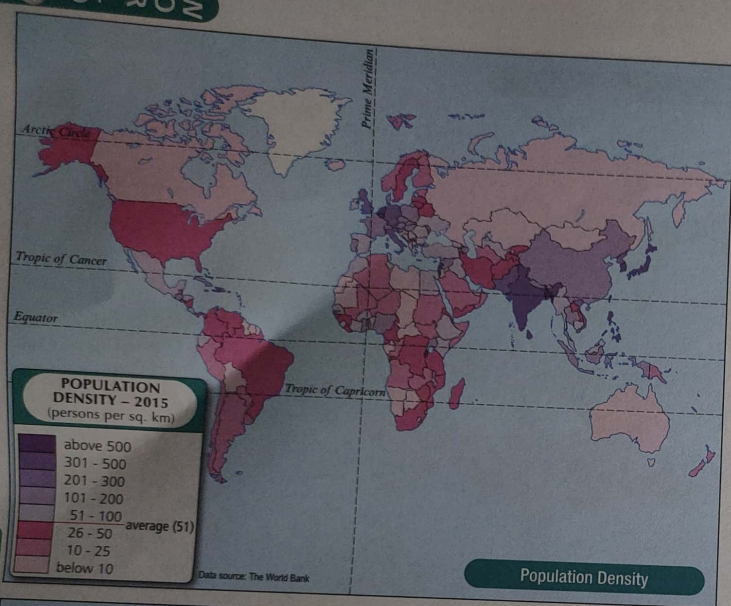
Industrial Regions

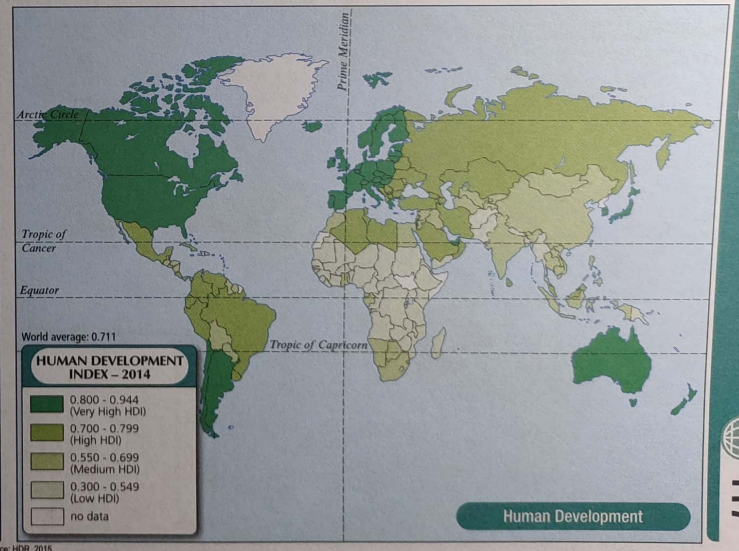
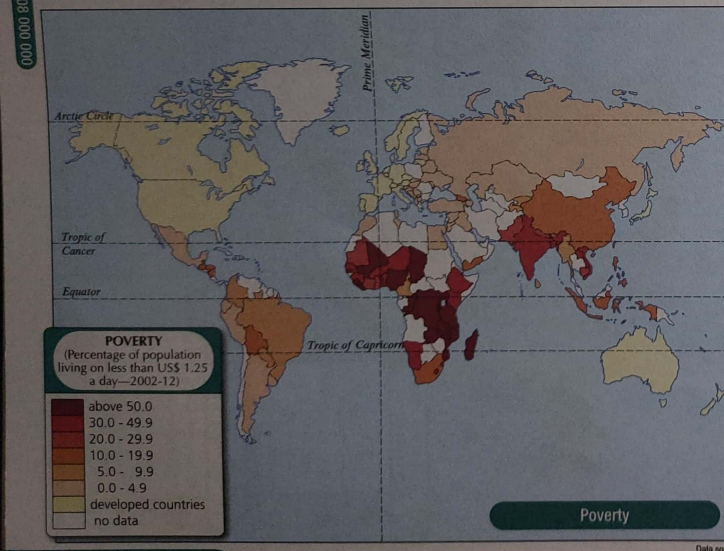
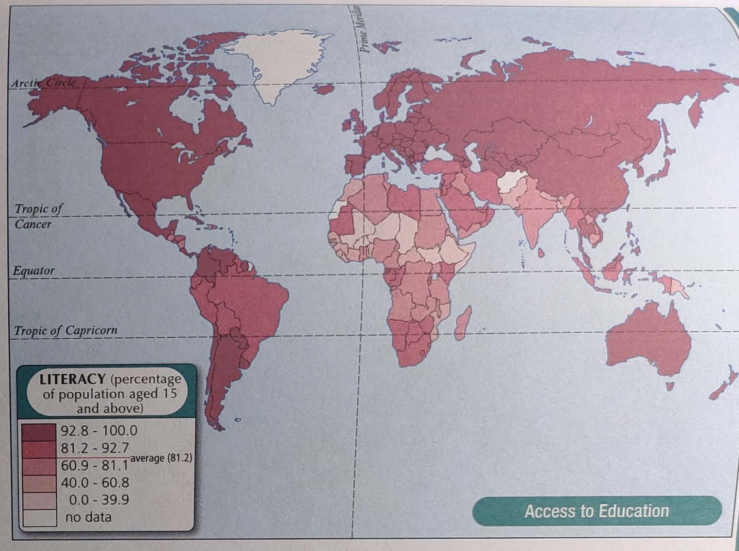
SCALE 1:205 000 000

Modified Gall Projection

WORLD

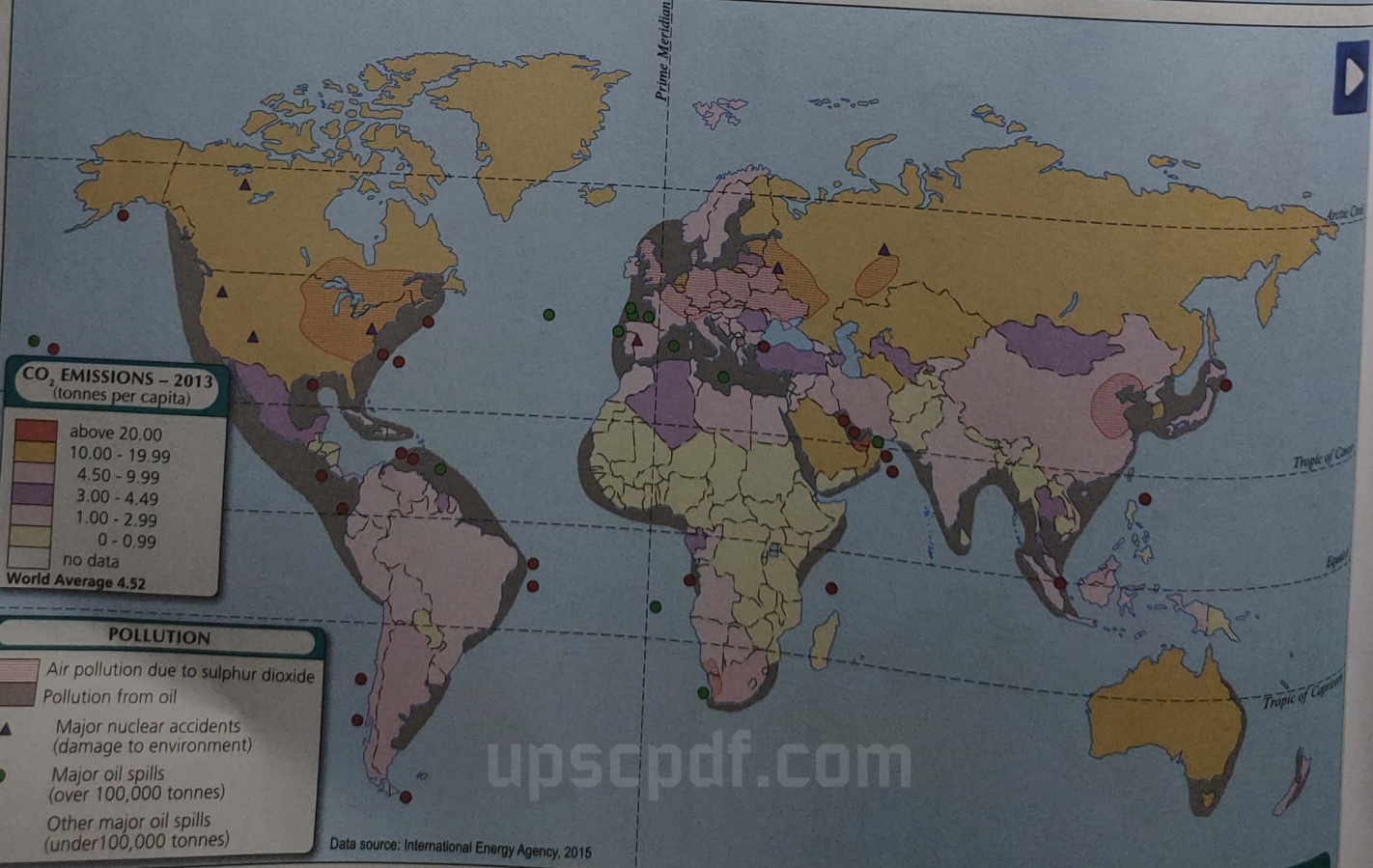






SCALE 1:300,000,000

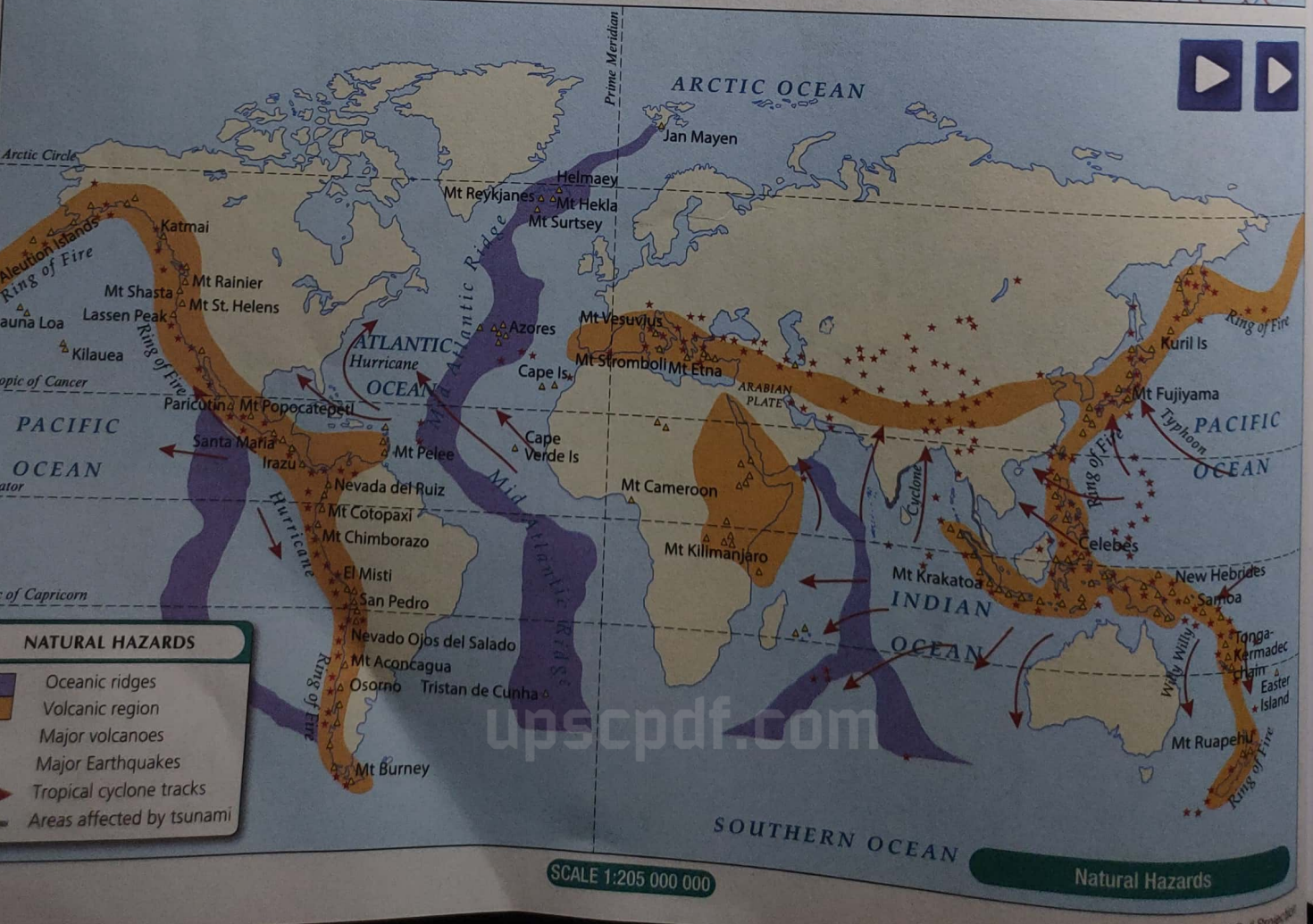
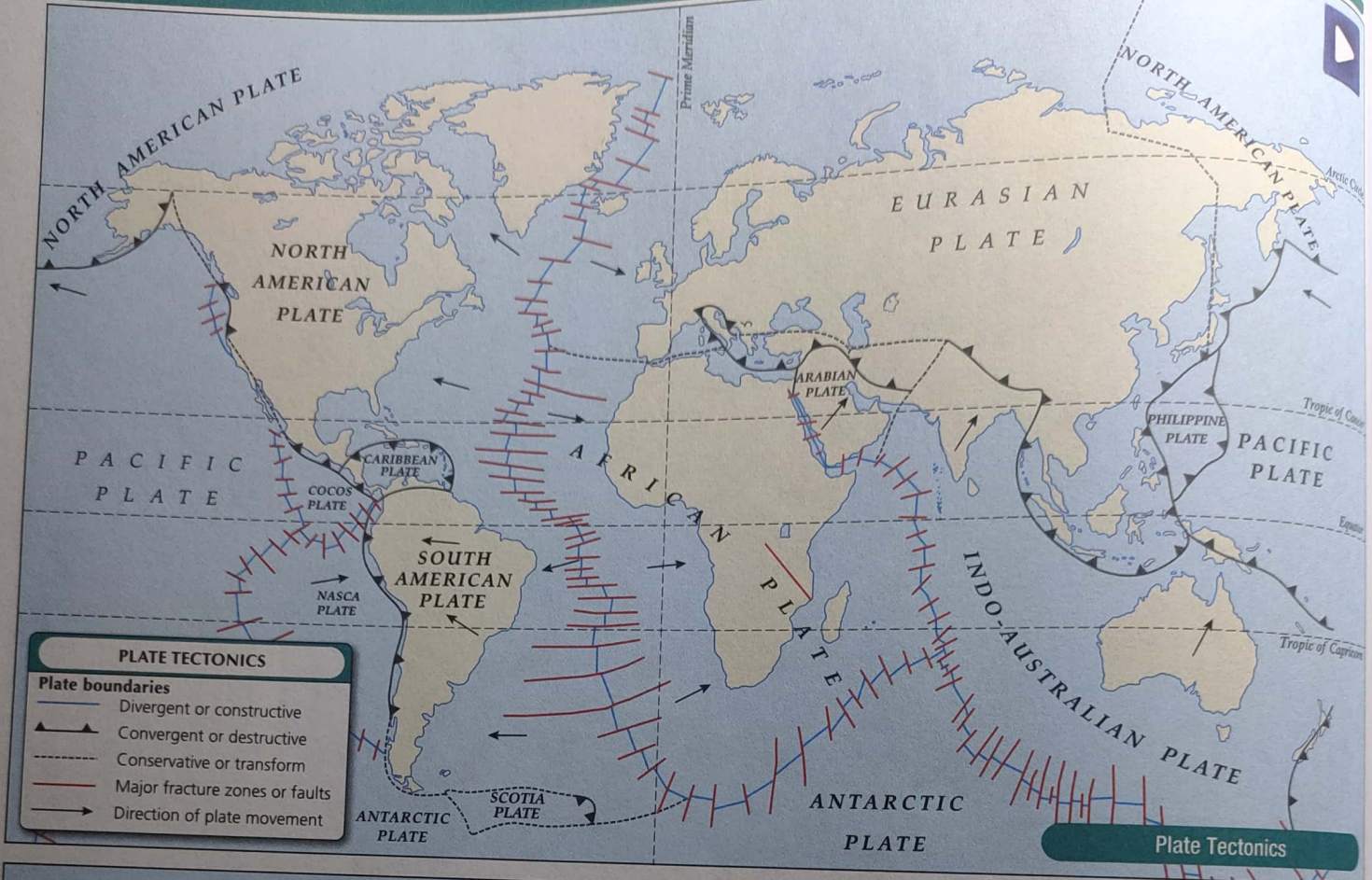
Data source: HDR, 2015



SCALE 1:205 000 000

Pollutants and CO₂ Emissions

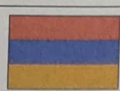
Modified Gall Projection







AFGHANISTAN (AF)
Area (sq. km): 652,225
Population (million): 32.5
Capital: Kabul
Language: Dari Persian, Pushtu
Monetary Unit: Afghani (AFA)
GDP (per capita US\$): 590.3



ARMENIA (AM)
Area (sq. km): 29,800
Population (million): 3.0
Capital: Yerevan
Language: Armenian, Yezidi
Monetary Unit: Dram (AMD)
GDP (per capita US\$): 3,499.8



AZERBAIJAN (AZ)
Area (sq. km): 86,600
Population (million): 9.7
Capital: Baku
Language: Azerbaijani, Armenian
Monetary Unit: Az. Manat (AZM)
GDP (per capita US\$): 5,496.3



BAHRAIN (BH)
Area (sq. km): 691
Population (million): 1.4
Capital: Manama
Language: Arabic, English
Monetary Unit: Bahraini Dinar (BHD)
GDP (per capita US\$): 23,395.7



BANGLADESH (BD)
Area (sq. km): 143,998
Population (million): 161.0
Capital: Dhaka
Language: Bengali, English
Monetary Unit: Taka (BDT)
GDP (per capita US\$): 1,211.7



BHUTAN (BT)
Area (sq. km): 38,394
Population (million): 0.8
Capital: Thimphu
Language: Dzongkha, Nepali
Monetary Unit: Ngultrum (BTN)
GDP (per capita US\$): 2,532.5



BRUNEI (BN)
Area (sq. km): 5,765
Population (million): 0.4
Capital: Bandar Seri Begawan
Language: Malay, English
Monetary Unit: Br. Dollar (BND)
GDP (per capita US\$): 36,607.9



CAMBODIA (KH)
Area (sq. km): 181,000
Population (million): 15.6
Capital: Phnom Penh
Language: Khmer, French
Monetary Unit: Riel (KHR)
GDP (per capita US\$): 1,158.7



CHINA (CN)
Area (sq. km): 9,562,000
Population (million): 1371.2
Capital: Beijing
Language: Mandarin, Wu
Monetary Unit: Yuan Renminbi (CNY)
GDP (per capita US\$): 7,924.7



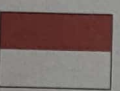
CYPRUS (CY)
Area (sq. km): 9,251
Population (million): 1.2
Capital: Nicosia
Language: Greek, Turkish
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 22,957.4



GEORGIA (GE)
Area (sq. km): 69,700
Population (million): 3.7
Capital: Tbilisi
Language: Georgian, Russian
Monetary Unit: Lari (GEL)
GDP (per capita US\$): 3,796.0



INDIA (IN)
Area (sq. km): 3,287,263
Population (million): 1,311.1
Capital: New Delhi
Language: Hindi, English
Monetary Unit: Ind. Rupee (INR)
GDP (per capita US\$): 1,581.6



INDONESIA (ID)
Area (sq. km): 1,919,445
Population (million): 257.6
Capital: Jakarta
Language: Indonesian
Monetary Unit: Rupiah (IDR)
GDP (per capita US\$): 3,346.5



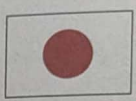
IRAN (IR)
Area (sq. km): 1,648,000
Population (million): 79.1
Capital: Tehran
Language: Farsi, Azeri
Monetary Unit: Iranian Rial (IRR)
GDP (per capita US\$): NA



IRAQ (IQ)
Area (sq. km): 438,317
Population (million): 36.4
Capital: Baghdad
Language: Arabic, Kurdish
Monetary Unit: Iraqi Dinar (IQD)
GDP (per capita US\$): 4,629.1



ISRAEL (IL)
Area (sq. km): 20,770
Population (million): 8.47
Capital: Jerusalem
Language: Hebrew, Arabic
Monetary Unit: Sheqel (ILS)
GDP (per capita US\$): 35,329.5



JAPAN (JP)
Area (sq. km): 377,727
Population (million): 127.0
Capital: Tokyo
Language: Japanese
Monetary Unit: Yen (JPY)
GDP (per capita US\$): 32,477.2



JORDAN (JO)
Area (sq. km): 89,206
Population (million): 7.6
Capital: Amman
Language: Arabic
Monetary Unit: Jord. Dinar (JOD)
GDP (per capita US\$): 4,940.0



KAZAKHSTAN (KZ)
Area (sq. km): 2,717,300
Population (million): 17.5
Capital: Astana
Language: Kazakh, Russian
Monetary Unit: Tenge (KZT)
GDP (per capita US\$): 10,508.4



KUWAIT (KW)
Area (sq. km): 17,818
Population (million): 3.9
Capital: Kuwait City
Language: Khalka (Mongolian)
Monetary Unit: Kuwaiti Dinar (KWD)
GDP (per capita US\$): 28,984.6



KYRGYZSTAN (KG)
Area (sq. km): 198,500
Population (million): 6.0
Capital: Bishkek
Language: Kyrgyz, Russian
Monetary Unit: Ky. Som (KGS)
GDP (per capita US\$): 1,103.2



LAOS (LA)
Area (sq. km): 236,800
Population (million): 6.8
Capital: Vientiane
Language: Lao
Monetary Unit: Kip (LAK)
GDP (per capita US\$): 1,812.3



LEBANON (LB)
Area (sq. km): 10,452
Population (million): 5.9
Capital: Beirut
Language: Arabic, Armenian
Monetary Unit: Leb. Pound (LBP)
GDP (per capita US\$): 8,050.8



MALAYSIA (MY)
Area (sq. km): 332,965
Population (million): 30.3
Capital: Kuala Lumpur/Putrajaya
Language: Malay, English
Monetary Unit: Ringgit (MYR)
GDP (per capita US\$): 9,766.2



MALDIVES (MV)
Area (sq. km): 298
Population (million): 0.4
Capital: Male
Language: Divehi (Maldivian)
Monetary Unit: Rufiyaa (MVR)
GDP (per capita US\$): 7,681.1



MONGOLIA (MN)
Area (sq. km): 1,565,000
Population (million): 3.0
Capital: Ulan Bator
Language: Mongolian, Kazakh
Monetary Unit: Tugrik (MNT)
GDP (per capita US\$): 3,973.4



MYANMAR (MM)
Area (sq. km): 676,577
Population (million): 53.9
Capital: Naypyidaw
Language: Burmese, Karen
Monetary Unit: Kyat (MMK)
GDP (per capita US\$): 1,203.5



NEPAL (NP)
Area (sq. km): 147,181
Population (million): 28.5
Capital: Katmandu
Language: Nepali, Maithili
Monetary Unit: Nep. Rupee (NPR)
GDP (per capita US\$): 732.3



NORTH KOREA (KP)
Area (sq. km): 120,538
Population (million): 25.2
Capital: Pyongyang
Language: Korean
Monetary Unit: N. K. Won (KPW)
GDP (per capita US\$): NA



OMAN (OM)
Area (sq. km): 309,500
Population (million): 4.5
Capital: Muscat
Language: Arabic, Baluchi
Monetary Unit: Rial Omani (OMR)
GDP (per capita US\$): 15,645.1



PAKISTAN (PK)
Area (sq. km): 803,940
Population (million): 188.9
Capital: Islamabad
Language: Urdu, Punjabi
Monetary Unit: Pak. Rupee (PKR)
GDP (per capita US\$): 1,429.0



PHILIPPINES (PH)
Area (sq. km): 300,000
Population (million): 100.7
Capital: Manila
Language: Filipino, English
Monetary Unit: Ph. Peso (PHP)
GDP (per capita US\$): 2,899.4



QATAR (QA)
Area (sq. km): 11,437
Population (million): 2.2
Capital: Doha
Language: Arabic
Monetary Unit: Qatari Riyal (QAR)
GDP (per capita US\$): 74,667.2



RUSSIA (RU)
Area (sq. km): 17,075,400
Population (million): 144.1
Capital: Moscow
Language: Russian, Tatar
Monetary Unit: Rouble (RUB)
GDP (per capita US\$): 9,057.1



SAUDI ARABIA (SA)
Area (sq. km): 2,200,000
Population (million): 31.5
Capital: Riyadh
Language: Arabic
Monetary Unit: Saudi Rial (SAR)
GDP (per capita US\$): 20,481.7



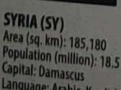
SINGAPORE (SG)
Area (sq. km): 639
Population (million): 5.5
Capital: Singapore
Language: Chinese, English
Monetary Unit: Sin. Dollar (SGD)
GDP (per capita US\$): 52,888.7



SOUTH KOREA (KR)
Area (sq. km): 99,274
Population (million): 50.6
Capital: Seoul
Language: Korean
Monetary Unit: S. K. Won (KRW)
GDP (per capita US\$): 27,221.5



SRI LANKA (LK)
Area (sq. km): 65,610
Population (million): 21.0
Capital: Sri Jayawardenapura
Language: Sinhalese, Tamil
Monetary Unit: Sri L. Rupee (LKR)
GDP (per capita US\$): 3,926.2



SYRIA (SY)
Area (sq. km): 185,180
Population (million): 18.5
Capital: Damascus
Language: Arabic, Kurdish
Monetary Unit: Syrian Pound (SYP)
GDP (per capita US\$): NA



TAJIKISTAN (TJ)
Area (sq. km): 143,100
Population (million): 8.5
Capital: Dushanbe
Language: Tajik, Uzbek
Monetary Unit: Tajik Rouble (TJR)
GDP (per capita US\$): 925.9



THAILAND (TH)
Area (sq. km): 513,115
Population (million): 68.0
Capital: Bangkok
Language: Thai, Lao
Monetary Unit: Baht (THB)
GDP (per capita US\$): 5,816.4



TIMOR-LESTE (TP)
Area (sq. km): 14,874
Population (million): 1.2
Capital: Dili
Language: Portuguese, Tetun
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): 1,134.4



TURKEY (TR)
Area (sq. km): 779,452
Population (million): 78.7
Capital: Ankara
Language: Turkish, Kurdish
Monetary Unit: Turkish Lira (TRL)
GDP (per capita US\$): 9,130.0



TURKMENISTAN (TM)
Area (sq. km): 488,100
Population (million): 5.4
Capital: Ashgabat
Language: Turkmen, Uzbek
Monetary Unit: Turk. Manat (TMM)
GDP (per capita US\$): 6,947.8



U. A. EMIRATES (AE)
Area (sq. km): 77,700
Population (million): 9.2
Capital: Abu Dhabi
Language: Arabic, English
Monetary Unit: Dirham (AED)
GDP (per capita US\$): 40,438.4



UZBEKISTAN (UZ)
Area (sq. km): 447,400
Population (million): 31.3
Capital: Tashkent
Language: Uzbek, Russian
Monetary Unit: Uzb. Som (UZS)
GDP (per capita US\$): 2,132.1



VIETNAM (VN)
Area (sq. km): 329,565
Population (million): 91.7
Capital: Hanoi
Language: Vietnamese, Thai
Monetary Unit: Dong (VND)
GDP (per capita US\$): 2,111.1



YEMEN (YE)
Area (sq. km): 527,968
Population (million): 26.8
Capital: San'a
Language: Arabic
Monetary Unit: Riyal (Yer)
GDP (per capita US\$): NA

Gross Domestic Product (GDP) is the total value of goods and services produced in a country and are given in US\$ per person, adjusted for the local cost of living. Country codes and currency codes are given in brackets along with country names and monetary units respectively. Two major official languages are given for each country.

Flag, Area, Population, Capital, Language, Monetary Unit and GDP



ALBANIA (AL)
Area (sq. km): 28,748
Population (million): 2.9
Capital: Tirana
Language: Albanian, Greek
Monetary Unit: Lek (ALL)
GDP (per capita US\$): 3,965.0



BULGARIA (BG)
Area (sq. km): 110,994
Population (million): 7.2
Capital: Sofia
Language: Bulgarian, Turkish
Monetary Unit: Lev (BGL)
GDP (per capita US\$): 6,819.9



FRANCE (FR)
Area (sq. km): 543,965
Population (million): 66.8
Capital: Paris
Language: French
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 36,248.2



IRELAND (IE)
Area (sq. km): 70,282
Population (million): 4.6
Capital: Dublin
Language: English, Irish
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 51,289.7



LUXEMBOURG (LU)
Area (sq. km): 2,586
Population (million): 0.6
Capital: Luxembourg
Language: Luxembourgish, German
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 1,01,450.0



NETHERLANDS (NL)
Area (sq. km): 41,526
Population (million): 16.9
Capital: Amsterdam, The Hague
Language: Dutch, Frisian
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 44,433.4



SERBIA (RS)
Area (sq. km): 88,361
Population (million): 7.1
Capital: Belgrade
Language: Serbian, Albanian
Monetary Unit: Serbian Dinar (CSD)
GDP (per capita US\$): 5,143.9



UKRAINE (UA)
Area (sq. km): 603,700
Population (million): 45.2
Capital: Kiev
Language: Ukrainian, Russian
Monetary Unit: Ukrainian Hryvnia (UAH)
GDP (per capita US\$): 2,115.0



ANDORRA (AD)
Area (sq. km): 465
Population (million): 0.1
Capital: Andorra la Vella
Language: Spanish, Catalan
Monetary Unit: Euro (EUR)
GDP: NA



CROATIA (HR)
Area (sq. km): 56,538
Population (million): 4.2
Capital: Zagreb
Language: Croatian, Serbian
Monetary Unit: Kuna (HRK)
Croatian Dinar (HRD)
GDP (per capita US\$): 11,535.8



GERMANY (DE)
Area (sq. km): 357,022
Population (million): 81.4
Capital: Berlin
Language: German, Turkish
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 41,219.0



ITALY (IT)
Area (sq. km): 301,245
Population (million): 60.8
Capital: Rome
Language: Italian
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 29,847.0



MACEDONIA (MK)
Area (sq. km): 25,713
Population (million): 2.1
Capital: Skopje
Language: Macedonian, Albanian
Monetary Unit: Dinar (MKD)
GDP (per capita US\$): 4,852.7



NORWAY (NO)
Area (sq. km): 323,878
Population (million): 5.2
Capital: Oslo
Language: Norwegian
Monetary Unit: Norwegian Krone (NOK)
GDP (per capita US\$): 74,734.6



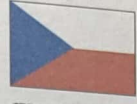
SLOVAKIA (SK)
Area (sq. km): 49,035
Population (million): 5.4
Capital: Bratislava
Language: Slovakian, Hungarian
Monetary Unit: Slovak Koruna (SKK)
GDP (per capita US\$): 15,962.6



UNITED KINGDOM (GB)
Area (sq. km): 243,609
Population (million): 65.1
Capital: London
Language: English, Welsh
Monetary Unit: Pound Sterling (GBP)
GDP (per capita US\$): 43,734.0



AUSTRIA (AT)
Area (sq. km): 83,855
Population (million): 8.6
Capital: Vienna
Language: German, Croatian
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 43,438.9



CZECH REPUBLIC (CZ)
Area (sq. km): 78,864
Population (million): 10.6
Capital: Prague
Language: Czech, Moravian
Monetary Unit: Czech Koruna (CZK)
GDP (per capita US\$): 17,231.3



GREECE (GR)
Area (sq. km): 131,957
Population (million): 10.8
Capital: Athens
Language: Greek
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 18,035.6



KOSOVO (XK)*
Area (sq. km): 10,908
Population (million): 1.8
Capital: Pristina
Language: Albanian, Serbian
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 3,553.4



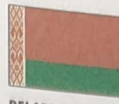
MALTA (MT)
Area (sq. km): 316
Population (million): 0.4
Capital: Valletta
Language: Maltese, English
Monetary Unit: Euro (EUR)
GDP (per capita US\$): NA



POLAND (PL)
Area (sq. km): 312,683
Population (million): 38.0
Capital: Warsaw
Language: Polish, German
Monetary Unit: New Zloty (PLL)
GDP (per capita US\$): 12,494.5



SLOVENIA (SI)
Area (sq. km): 20,251
Population (million): 2.1
Capital: Ljubljana
Language: Slovenian, Croatian
Monetary Unit: Tolar (SIT)
GDP (per capita US\$): 20,713.1



BELARUS (BY)
Area (sq. km): 207,600
Population (million): 9.5
Capital: Minsk
Language: Belarusian, Russian
Monetary Unit: Belarussian Rouble (BYR)
GDP (per capita US\$): 5,740.5



DENMARK (DK)
Area (sq. km): 43,075
Population (million): 5.7
Capital: Copenhagen
Language: Danish
Monetary Unit: Danish Krone (DKK)
GDP (per capita US\$): 52,002.2



HOLY SEE (VA)
Area (sq. km): 0.5
Population (million): NA
Capital: Vatican City
Language: Latin
Monetary Unit: Euro (EUR)
GDP (per capita US\$): NA



LATVIA (LV)
Area (sq. km): 63,700
Population (million): 2.0
Capital: Riga
Language: Latvian, Russian
Monetary Unit: Lats (LVL)
GDP (per capita US\$): 13,664.9



MOLDOVA (MD)
Area (sq. km): 33,700
Population (million): 3.6
Capital: Chisinau
Language: Romanian, Ukrainian
Monetary Unit: Moldavian Leu (MDL)
GDP (per capita US\$): 1,843.2



PORTUGAL (PT)
Area (sq. km): 88,940
Population (million): 10.3
Capital: Lisbon
Language: Portuguese
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 19,222.9



SPAIN (ES)
Area (sq. km): 504,782
Population (million): 46.4
Capital: Madrid
Language: Spanish, Castilian
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 25,831.6



BELGIUM (BE)
Area (sq. km): 30,520
Population (million): 11.3
Capital: Brussels
Language: Dutch, French
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 40,231.3



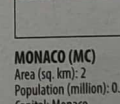
ESTONIA (EE)
Area (sq. km): 45,200
Population (million): 1.3
Capital: Tallinn
Language: Estonian, Russian
Monetary Unit: Kroon (EEK)
GDP (per capita US\$): 17,295.4



HUNGARY (HU)
Area (sq. km): 93,030
Population (million): 9.8
Capital: Budapest
Language: Hungarian
Monetary Unit: Forint (HUF)
GDP (per capita US\$): 12,259.1



LIECHTENSTEIN (LI)
Area (sq. km): 160
Population (million): 0.04
Capital: Vaduz
Language: German
Monetary Unit: Swiss Franc (CHF)
GDP: NA



MONACO (MC)
Area (sq. km): 2
Population (million): 0.04
Capital: Monaco
Language: French, Monegasque
Monetary Unit: Euro (EUR)
GDP (per capita US\$): NA



ROMANIA (RO)
Area (sq. km): 237,500
Population (million): 19.8
Capital: Bucharest
Language: Romanian, Hungarian
Monetary Unit: Romanian Leu (ROL)
GDP (per capita US\$): 8,972.9



SWEDEN (SE)
Area (sq. km): 449,964
Population (million): 9.8
Capital: Stockholm
Language: Swedish
Monetary Unit: Swedish Krone (SEK)
GDP (per capita US\$): 50,272.9



BOSNIA-HERZEGOVINA (BA)
Area (sq. km): 51,130
Population (million): 3.8
Capital: Sarajevo
Language: Bosnian, Serbian
Monetary Unit: Convertible Mark (BAM)
GDP (per capita US\$): 4,197.8



FINLAND (FI)
Area (sq. km): 338,145
Population (million): 5.5
Capital: Helsinki
Language: Finnish, Swedish
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 41,920.8



ICELAND (IS)
Area (sq. km): 102,820
Population (million): 0.3
Capital: Reykjavik
Language: Icelandic
Monetary Unit: Icelandic Krona (ISK)
GDP (per capita US\$): 50,173.3



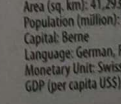
LITHUANIA (LT)
Area (sq. km): 65,200
Population (million): 2.9
Capital: Vilnius
Language: Lithuanian, Russian
Monetary Unit: Litas (LTL)
GDP (per capita US\$): 14,172.2



MONTENEGRO
Area (sq. km): 13,812
Population (million): 0.6
Capital: Podgorica
Language: Montenegrin
Monetary Unit: Euro (EUR)
GDP (per capita US\$): 6,415.0



SAN MARINO (SM)
Area (sq. km): 61
Population (million): 0.03
Capital: San Marino
Language: Italian
Monetary Unit: Euro (EUR)
GDP (per capita US\$): NA



SWITZERLAND (CH)
Area (sq. km): 41,293
Population (million): 8.3
Capital: Berne
Language: German, French
Monetary Unit: Swiss Franc (CHF)
GDP (per capita US\$): 80,214.7

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*XK: assigned as a temporary code to Kosovo under UN security council resolution 1244/99.

EUROPE



Flag, Area, Population, Capital, Language, Monetary Unit and GDP



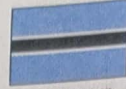
ALGERIA (DZ)
Area (sq. km): 2,381,741
Population (million): 39.7
Capital: Algiers
Language: Arabic, French
Monetary Unit: Alg. Dinar (DZD)
GDP (per capita US\$): 4,206.0



ANGOLA (AO)
Area (sq. km): 1,246,700
Population (million): 25.0
Capital: Luanda
Language: Portuguese, Bantu
Monetary Unit: New Kwanza (ADN)
GDP (per capita US\$): 4,102.1



BENIN (BJ)
Area (sq. km): 112,620
Population (million): 10.9
Capital: Porto-Novo
Language: French, Fon
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 779.1



BOTSWANA (BW)
Area (sq. km): 581,370
Population (million): 2.3
Capital: Gaborone
Language: Yoruba, Adjla
Monetary Unit: Pula (BWP)
GDP (per capita US\$): 6,360.6



BURKINA FASO (BF)
Area (sq. km): 274,200
Population (million): 18.1
Capital: Ouagadougou
Language: French, Moore
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 613.0



BURUNDI (BI)
Area (sq. km): 27,835
Population (million): 11.2
Capital: Bujumbura
Language: Kirundi (Yumu, Tutsi)
Monetary Unit: Bur. Franc (BIF)
GDP (per capita US\$): 276.0



CAMEROON (CM)
Area (sq. km): 475,442
Population (million): 23.3
Capital: Yaoundé
Language: French, English, Fang
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 1,250.8



CAPE VERDE (CV)
Area (sq. km): 4,033
Population (million): 0.5
Capital: Praia
Language: Portuguese, Creole
Monetary Unit: C. V. Escudo (CVE)
GDP (per capita US\$): 3,131.1



CENTRAL AFRICAN REP. (CF)
Area (sq. km): 622,436
Population (million): 4.9
Capital: Bangui
Language: French, Sangho
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 306.8



CHAD (TD)
Area (sq. km): 1,284,000
Population (million): 14.0
Capital: N'Djamena
Language: Arabic, French
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 775.7



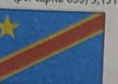
CONGO (CG)
Area (sq. km): 342,000
Population (million): 4.6
Capital: Brazzaville
Language: French, Kongo
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 1,851.2



COMOROS
Area (sq. km): 2,236
Population (million): 0.8
Capital: Moroni
Language: Comorian, Arabic, French
Monetary Unit: Comorian Franc (Kw)
GDP (per capita US\$): NA



COTE D'IVOIRE (CI)
Area (sq. km): 322,464
Population (million): 22.7
Capital: Yamoussoukro
Language: French, Creole
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 1,398.7



DEMOCRATIC REPUBLIC OF THE CONGO
Area (sq. km): 2,345,410
Population (million): 77.3
Capital: Kinshasa
Language: English, Hausa
Monetary Unit: Congolese Franc (CDF)
GDP (per capita US\$): 456.1



DJIBOUTI (DJ)
Area (sq. km): 23,200
Population (million): 0.9
Capital: Djibouti
Language: Somali, Afar
Monetary Unit: Djib. Franc (DJF)
GDP (per capita US\$): NA



EGYPT (EG)
Area (sq. km): 1,000,250
Population (million): 91.5
Capital: Cairo
Language: Arabic
Monetary Unit: Egyptian Pound (EGP)
GDP (per capita US\$): 3,614.7



EQUATORIAL GUINEA
Area (sq. km): 28,051
Population (million): 0.8
Capital: Malabo
Language: English, Hausa
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 11,120.9



ERITREA (ER)
Area (sq. km): 117,400
Population (million): NA
Capital: Asmara
Language: Tigrinya, Tigre
Monetary Unit: E. Halifa (ERN, ETR)
GDP (per capita US\$): NA



ETHIOPIA (ET)
Area (sq. km): 1,133,880
Population (million): 99.4
Capital: Addis Ababa
Language: Oromo, Amharic
Monetary Unit: Eth. Birr (ETB)
GDP (per capita US\$): 619.1



GABON (GA)
Area (sq. km): 267,667
Population (million): 1.7
Capital: Libreville
Language: French, Fang
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 8,311.5



GAMBIA (GM)
Area (sq. km): 11,295
Population (million): 2.0
Capital: Banjul
Language: English, Mandinka
Monetary Unit: Dalasi (GMD)
GDP (per capita US\$): NA



GHANA (GH)
Area (sq. km): 238,537
Population (million): 27.4
Capital: Accra
Language: English, Hausa
Monetary Unit: Cedi (GHC)
GDP (per capita US\$): 1,381.4



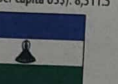
GUINEA-BISSAU
Area (sq. km): 36,125
Population (million): 1.8
Capital: Bissau
Language: English, Hausa
Monetary Unit: W. A. CFA Franc (XOF)
GDP (per capita US\$): 573.0



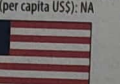
GUINEA (GN)
Area (sq. km): 245,857
Population (million): 12.6
Capital: Conakry
Language: French, Fulani
Monetary Unit: G. Syli (Franc) (GNS)
GDP (per capita US\$): 531.3



KENYA (KE)
Area (sq. km): 582,646
Population (million): 46.1
Capital: Nairobi
Language: Kiswahili, English
Monetary Unit: Ken. Shilling (KES)
GDP (per capita US\$): 1,376.7



LESOTHO (LS)
Area (sq. km): 30,355
Population (million): 2.1
Capital: Maseru
Language: Sesotho, English
Monetary Unit: LSL, LSM, ZAR
GDP (per capita US\$): NA



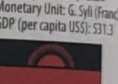
LIBERIA (LR)
Area (sq. km): 111,369
Population (million): 4.5
Capital: Monrovia
Language: English, Creole
Monetary Unit: Lib. Dollar (LRD)
GDP (per capita US\$): 455.9



LIBYA (LY)
Area (sq. km): 1,759,540
Population (million): 6.3
Capital: Tripoli
Language: Arabic, Berber
Monetary Unit: Libyan Dinar (LYD)
GDP (per capita US\$): 4643.3



MADAGASCAR (MG)
Area (sq. km): 587,041
Population (million): 24.2
Capital: Antananarivo
Language: Malagasy, French
Monetary Unit: Malagasy Franc (MGF)
GDP (per capita US\$): 411.8



MALAWI (MW)
Area (sq. km): 118,484
Population (million): 17.2
Capital: Lilongwe
Language: Chichewa, English
Monetary Unit: M. Kwacha (MKW)
GDP (per capita US\$): 381.4



MALI (ML)
Area (sq. km): 1,240,140
Population (million): 17.6
Capital: Bamako
Language: French, Bambara
Monetary Unit: CFA Franc (XAF) Malian Franc (MLF)
GDP (per capita US\$): 744.3



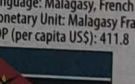
MAURITANIA (MR)
Area (sq. km): 1,030,700
Population (million): 4.1
Capital: Nouakchott
Language: Arabic, French
Monetary Unit: Ouguiya (MRO)
GDP (per capita US\$): NA



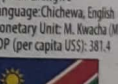
MAURITIUS (MU)
Area (sq. km): 2,040
Population (million): 1.3
Capital: Port Louis
Language: English, Creole
Monetary Unit: Mau. Rupee (MUR)
GDP (per capita US\$): 9,116.8



MOROCCO (MA)
Area (sq. km): 446,550
Population (million): 34.4
Capital: Rabat
Language: Arabic, Berber
Monetary Unit: Mor. Dirham (MAD)
GDP (per capita US\$): 2,871.5



MOZAMBIQUE (MZ)
Area (sq. km): 799,380
Population (million): 28.0
Capital: Maputo
Language: Portuguese, Makhuwa
Monetary Unit: Metical (MZM)
GDP (per capita US\$): 525.0



NAMIBIA (NA)
Area (sq. km): 824,292
Population (million): 2.5
Capital: Windhoek
Language: English, Afrikaans
Monetary Unit: Namibian Dollar (NAD)
GDP (per capita US\$): 4,895.8



NIGER (NE)
Area (sq. km): 1,267,000
Population (million): 19.9
Capital: Niamey
Language: French, Hausa
Monetary Unit: W. A. Franc (XOF) CFA Franc (XAF)
GDP (per capita US\$): 359.0



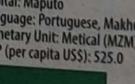
NIGERIA (NG)
Area (sq. km): 923,768
Population (million): 182.2
Capital: Abuja
Language: English, Hausa
Monetary Unit: Naira (NGN)
GDP (per capita US\$): 2,640.3



RWANDA (RW)
Area (sq. km): 26,338
Population (million): 11.6
Capital: Kigali
Language: Kinyarwanda, French
Monetary Unit: Rw. Franc (RWF)
GDP (per capita US\$): 697.3



SAO TOME AND PRINCE
Area (sq. km): 964
Population (million): 0.2
Capital: São Tomé
Language: English, Hausa
Monetary Unit: Dobra (STD)
GDP (per capita US\$): NA



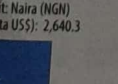
SIERRA LEONE
Area (sq. km): 71,740
Population (million): 6.5
Capital: Freetown
Language: English, Hausa
Monetary Unit: Leone (SLL)
GDP (per capita US\$): 693.4



SENEGAL (SN)
Area (sq. km): 196,720
Population (million): 15.1
Capital: Dakar
Language: French, Wolof
Monetary Unit: CFA Franc (XAF)
GDP (per capita US\$): 910.8



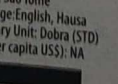
SEYCHELLES (SC)
Area (sq. km): 455
Population (million): 0.1
Capital: Victoria
Language: English, French
Monetary Unit: Sey. Rupee (SCR)
GDP (per capita US\$): 15,476.0



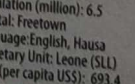
SOMALIA (SO)
Area (sq. km): 637,657
Population (million): 10.8
Capital: Mogadishu
Language: Somali, Arabic
Monetary Unit: S. Shilling (SOS)
GDP (per capita US\$): 551.9



SOUTH AFRICA (ZA)
Area (sq. km): 1,219,090
Population (million): 55.0
Capital: Pretoria/Cape Town
Language: Afrikaans, English
Monetary Unit: Rand (ZAR)
GDP (per capita US\$): 5,691.7



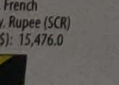
SOUTH SUDAN
Area (sq. km): 644,329
Population (million): 12.3
Capital: Juba
Language: English, Hausa
Monetary Unit: S. Sudanese Pound (SSP)
GDP (per capita US\$): 730.6



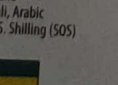
SUDAN (SD)
Area (sq. km): 1,886,068
Population (million): 40.2
Capital: Khartoum
Language: Arabic, Dinka
Monetary Unit: S. Pound (SDG)
GDP (per capita US\$): 2,089.4



SWAZILAND (SZ)
Area (sq. km): 17,364
Population (million): 1.3
Capital: Mbabane
Language: Swazi, English
Monetary Unit: Lilangeni (SZL)
GDP (per capita US\$): 3,154.8



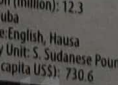
TANZANIA (TZ)
Area (sq. km): 945,087
Population (million): 53.5
Capital: Dodoma
Language: Swahili, English
Monetary Unit: Tan. Shilling (TZS)
GDP (per capita US\$): 864.9



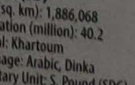
TOGO
Area (sq. km): 56,785
Population (million): 7.3
Capital: Lomé
Language: English, Hausa
Monetary Unit: CFA Franc (XOF)
GDP (per capita US\$): 548.0



TUNISIA (TN)
Area (sq. km): 164,150
Population (million): 11.1
Capital: Tunis
Language: Arabic, French
Monetary Unit: Tunisian Dinar (TND)
GDP (per capita US\$): 3,872.5



UGANDA
Area (sq. km): 241,038
Population (million): 39.0
Capital: Kampala
Language: English, Hausa
Monetary Unit: Ugandan Shilling (UGX)
GDP (per capita US\$): 675.6



ZAMBIA (ZM)
Area (sq. km): 752,614
Population (million): 16.2
Capital: Lusaka
Language: English, Bemba
Monetary Unit: Zam. Kwacha (ZMK)
GDP (per capita US\$): 1,307.8



ZIMBABWE (ZW)
Area (sq. km): 390,759
Population (million): 15.6
Capital: Harare
Language: English, Shona
Monetary Unit: Zimbabwean Dollar (ZWN)
GDP (per capita US\$): 890.4

NORTH AMERICA

SOUTH AMERICA

OCEANIA

Flag, Area, Population, Capital, Language, Monetary Unit and GDP



ANTIGUA & BARBUDA (AG)
Area (sq. km): 442
Population (million): 0.1
Capital: St John's
Language: English, Creole
Monetary Unit: East C. Dollar (Xcd)
GDP (per capita US\$): 14,128.9



BAHAMAS (BS)
Area (sq. km): 13,939
Population (million): 0.4
Capital: Nassau
Language: English, Creole
Monetary Unit: Bah. Dollar (Bsd)
GDP (per capita US\$): 22,896.9



BARBADOS (BB)
Area (sq. km): 430
Population (million): 0.3
Capital: Bridgetown
Language: English, Creole
Monetary Unit: Bar. Dollar (BBD)
GDP (per capita US\$): 15,660.7



BELIZE (BZ)
Area (sq. km): 22,965
Population (million): 0.4
Capital: Belmopan
Language: English, Spanish
Monetary Unit: Belize Dollar (BZD)
GDP (per capita US\$): 4,906.9



CANADA (CA)
Area (sq. km): 9,984,670
Population (million): 35.9
Capital: Ottawa
Language: English, French
Monetary Unit: Can. Dollar (CAD)
GDP (per capita US\$): 43,248.5



COSTA RICA (CR)
Area (sq. km): 51,100
Population (million): 4.8
Capital: San Jose
Language: Spanish
Monetary Unit: C. R. Colon (CRC)
GDP (per capita US\$): 10,629.8



CUBA (CU)
Area (sq. km): 110,860
Population (million): 11.4
Capital: Havana
Language: Spanish
Monetary Unit: Cuban Peso (CUP)
GDP (per capita US\$): NA



DOMINICA (DM)
Area (sq. km): 750
Population (million): 0.1
Capital: Roseau
Language: English, Creole
Monetary Unit: East C. Dollar (XCD)
GDP (per capita US\$): 7,399.3



DOMINICAN REP. (DO)
Area (sq. km): 48,442
Population (million): 10.5
Capital: Santo Domingo
Language: Spanish, Creole
Monetary Unit: Dom. Rep. Peso (DOP)
GDP (per capita US\$): 6,373.6



EL SALVADOR (SV)
Area (sq. km): 21,041
Population (million): 6.1
Capital: San Salvador
Language: Spanish
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): 4,219.4



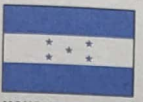
GRENADE (GD)
Area (sq. km): 378
Population (million): 0.1
Capital: St George's
Language: English, Creole
Monetary Unit: East C. Dollar (XCD)
GDP (per capita US\$): 9,156.5



GUATEMALA (GT)
Area (sq. km): 109,890
Population (million): 16.3
Capital: Guatemala City
Language: Spanish
Monetary Unit: Quetzal (GTQ)
GDP (per capita US\$): 3,903.5



HAITI (HT)
Area (sq. km): 27,750
Population (million): 10.7
Capital: Port-au-Prince
Language: French, Creole
Monetary Unit: Gourde (HTG)
GDP (per capita US\$): 828.8



HONDURAS (HN)
Area (sq. km): 112,088
Population (million): 8.1
Capital: Tegucigalpa
Language: Spanish
Monetary Unit: Lempira (HNL)
GDP (per capita US\$): 2,495.6



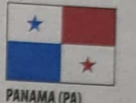
JAMAICA (JM)
Area (sq. km): 10,991
Population (million): 2.7
Capital: Kingston
Language: English, Creole
Monetary Unit: Jam. Dollar (JMD)
GDP (per capita US\$): 5,137.9



MEXICO (MX)
Area (sq. km): 1,972,545
Population (million): 127.0
Capital: Mexico City
Language: Spanish
Monetary Unit: M. New Peso (MXN)
GDP (per capita US\$): 9,009.3



NICARAGUA (NI)
Area (sq. km): 130,000
Population (million): 6.1
Capital: Managua
Language: Spanish
Monetary Unit: Cordoba (NIC)
GDP (per capita US\$): 2,086.9



PANAMA (PA)
Area (sq. km): 77,082
Population (million): 3.9
Capital: Panama City
Language: Spanish, English
Monetary Unit: Balboa (PAB)/US Dollar (USD)
GDP (per capita US\$): 13,268.1



ST KITTTS & NEVIS (KN)
Area (sq. km): 261
Population (million): 0.1
Capital: Basseterre
Language: English, Creole
Monetary Unit: East Car. Dollar (XCD)
GDP (per capita US\$): 16,589.1



ST LUCIA (LC)
Area (sq. km): 616
Population (million): 0.2
Capital: Castries
Language: English, Creole
Monetary Unit: East Car. Dollar (XCD)
GDP (per capita US\$): 7,764.3



ST VINCENT & GRE. (VC)
Area (sq. km): 389
Population (million): 0.1
Capital: Kingstown
Language: English, Creole
Monetary Unit: East Car. Dollar (XCD)
GDP (per capita US\$): 6,864.2



TRINIDAD & TOBAGO (TT)
Area (sq. km): 5,130
Population (million): 1.4
Capital: Port of Spain
Language: English, Creole, Hindi
Monetary Unit: Tri. & Tob. Dollar (TTD)
GDP (per capita US\$): 20,444.1



U. S. OF AMERICA (US)
Area (sq. km): 9,826,635
Population (million): 321.4
Capital: Washington DC
Language: English, Spanish
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): 55,836.8

SOUTH AMERICA



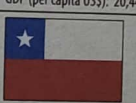
ARGENTINA (AR)
Area (sq. km): 2,766,889
Population (million): 43.4
Capital: Buenos Aires
Language: Spanish, Italian
Monetary Unit: Argentine Peso (ARS)
GDP (per capita US\$): NA



BOLIVIA (BO)
Area (sq. km): 1,098,581
Population (million): 10.7
Capital: La Paz/Sucre
Language: Spanish, Quechua
Monetary Unit: Boliviano (BOB)/Bol. Peso (BOP)
GDP (per capita US\$): 3,095.4



BRAZIL (BR)
Area (sq. km): 8,514,879
Population (million): 207.8
Capital: Brasilia
Language: Portuguese
Monetary Unit: Cruzeiro Real (BRR)
GDP (per capita US\$): 8,538.6



CHILE (CL)
Area (sq. km): 756,945
Population (million): 17.9
Capital: Santiago
Language: Spanish
Monetary Unit: Chilean Peso (CLP)
GDP (per capita US\$): 13,383.9



COLOMBIA (CO)
Area (sq. km): 1,141,748
Population (million): 48.2
Capital: Bogota
Language: Spanish
Monetary Unit: Col. Peso (COP)
GDP (per capita US\$): 6,056.1



ECUADOR (EC)
Area (sq. km): 272,045
Population (million): 16.1
Capital: Quito
Language: Spanish, Quechua
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): 6,248.1



GUYANA (GY)
Area (sq. km): 214,969
Population (million): 0.8
Capital: Georgetown
Language: English, Creole
Monetary Unit: Gu. Dollar (GYD)
GDP (per capita US\$): 4,127.4



PARAGUAY (PY)
Area (sq. km): 406,752
Population (million): 6.6
Capital: Asuncion
Language: Spanish, Guarani
Monetary Unit: Guarani (PYG)
GDP (per capita US\$): 4,160.6



PERU (PE)
Area (sq. km): 1,285,216
Population (million): 31.4
Capital: Lima
Language: Spanish, Quechua
Monetary Unit: Inti (PEI) New Sol (PEN)
GDP (per capita US\$): 6,121.9



SURINAME (SR)
Area (sq. km): 163,820
Population (million): 0.5
Capital: Paramaribo
Language: Dutch, Surinamese
Monetary Unit: S. Guilder (SRG)
GDP (per capita US\$): 8,983.6



URUGUAY (UY)
Area (sq. km): 176,215
Population (million): 3.4
Capital: Montevideo
Language: Spanish
Monetary Unit: Ur. New Peso (UYU)
GDP (per capita US\$): 15,573.9



VENEZUELA (VE)
Area (sq. km): 912,050
Population (million): 31.1
Capital: Caracas
Language: Spanish, Amerindian
Monetary Unit: Bolivar Fuerte (VEF)
GDP (per capita US\$): NA

OCEANIA



AUSTRALIA (AU)
Area (sq. km): 7,692,024
Population (million): 23.8
Capital: Canberra
Language: English
Monetary Unit: Aus. Dollar (AUD)
GDP (per capita US\$): 56,327.7



FIJI (FI)
Area (sq. km): 18,330
Population (million): 0.9
Capital: Suva
Language: English, Fijian
Monetary Unit: Fiji Dollar (FJD)
GDP (per capita US\$): 4,916.3



KIRIBATI (KI)
Area (sq. km): 717
Population (million): 0.1
Capital: Tarawa
Language: Gilbertese, English
Monetary Unit: Aus. Dollar (AUD)
GDP (per capita US\$): 1,291.9



MARSHALL IS (MH)
Area (sq. km): 181
Population (million): 0.1
Capital: Majuro
Language: English, Marshallese
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): NA



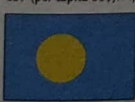
MICRONESIA (FM)
Area (sq. km): 701
Population (million): 0.1
Capital: Palikir
Language: English, Chuukese
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): NA



NAURU (NR)
Area (sq. km): 21
Population (million): 0.01
Capital: Yaren
Language: Nauruan, English
Monetary Unit: Aus. Dollar (AUD)
GDP (per capita US\$): NA



NEW ZEALAND (NZ)
Area (sq. km): 270,534
Population (million): 4.6
Capital: Wellington
Language: English, Maori
Monetary Unit: New Z. Dollar (NZD)
GDP (per capita US\$): 37,808.0



PALAU
Area (sq. km): 458
Population (million): 0.02
Capital: Ngerulmud
Language: English, Palauan
Monetary Unit: US Dollar (USD)
GDP (per capita US\$): 13,498.7



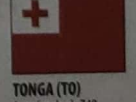
PAPUA NEW GUINEA (PG)
Area (sq. km): 462,840
Population (million): 7.6
Capital: Port Moresby
Language: English, Tok Pisin
Monetary Unit: Kina (PGK)
GDP (per capita US\$): NA



SAMOA
Area (sq. km): 2831
Population (million): 0.2
Capital: Apia
Language: English
Monetary Unit: tala
GDP (per capita US\$): 3,938.5



SOLOMON IS (SB)
Area (sq. km): 28,370
Population (million): 0.6
Capital: Honiara
Language: English, Creole
Monetary Unit: Sol. Is. Dollar (SBD)
GDP (per capita US\$): 1,982.3



TONGA (TO)
Area (sq. km): 748
Population (million): 0.1
Capital: Nuku'alofa
Language: Tongan, English
Monetary Unit: Pa'anga (TOP)
GDP (per capita US\$): NA



TUVALU (TV)
Area (sq. km): 26
Population (million): 0.01
Capital: Funafuti
Language: Tuvaluan, English
Monetary Unit: Aus. Dollar (AUD)
GDP (per capita US\$): NA



VANUATU (VU)
Area (sq. km): 12,190
Population (million): 0.3
Capital: Port Vila
Language: English, Bislama
Monetary Unit: Vatu (VUV)

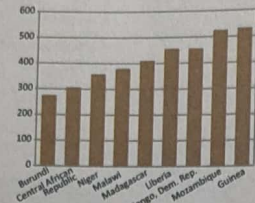
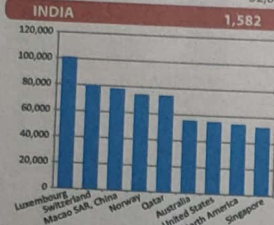
AMERICA AND OCEANIA



GDP per capita, 2015

Gross domestic product (GDP) in US\$ per person, adjusted for the local cost of living

Highest GDP per capita (in US \$)	Lowest GDP per capita (in US\$)	
Luxembourg	Burundi	276
Switzerland	Japan	307
Macao SAR, China	Central African Republic	359
Norway	Niger	381
Qatar	Malawi	412
Australia	Madagascar	456
United States	Liberia	456
North America	Congo, Dem. Rep.	456
Singapore	Mozambique	525
	Guinea	531



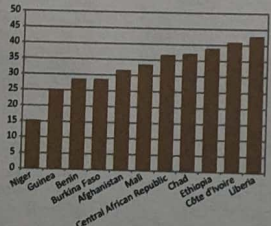
Data Source: World Bank

Literacy and Schooling, 2005-2013

Percentage of people aged 15 and above who can, with understanding, both read and write a short, simple statement on their everyday life

Highest literacy levels	Lowest literacy levels	
Norway	Niger	15.5
Australia	Guinea	25.3
Switzerland	Benin	28.7
Denmark	Burkina Faso	28.7
Netherlands	Afghanistan	31.7
Germany	Mali	33.6
Ireland	Central African Republic	36.8
United States	Chad	37.3
Canada	Ethiopia	39.0
New Zealand	Côte d'Ivoire	41.0
Hong Kong, China (SAR)	Liberia	42.9
Liechtenstein		
Sweden		
United Kingdom		
Iceland		
Korea (Republic of)		
Israel		
Luxembourg		
Japan		
Belgium		
France		
Austria		
Finland		
Czech Republic		

INDIA 62.8

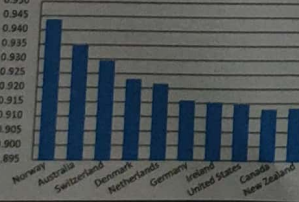


Human Development Index (HDI), 2014

HDI measures the relative social and economic progress of a country. It combines life expectancy, adult literacy, average number of years of schooling and purchasing power.

Highest HDI	Lowest HDI	
Norway	Mali	0.419
Australia	Mozambique	0.416
Switzerland	Sierra Leone	0.413
Denmark	Guinea	0.411
Netherlands	Burkina Faso	0.402
Germany	Burundi	0.400
Ireland	Chad	0.392
United States	Eritrea	0.391
Canada	Central African Republic	0.350
New Zealand	Niger	0.348

INDIA 0.609



Fertility Rate, 2015 (births per woman)

Average number of children born to childbearing woman

Largest families	Fertility Rate
Niger	7.6
Mali	6.9
Somalia	6.6
Chad	6.3
Burundi	6.1
Nigeria	6.0
Congo (Democratic Republic of the)	5.9
Timor-Leste	5.9
Uganda	5.9
Angola	5.8
Gambia	5.7
Zambia	5.7
Burkina Faso	5.7

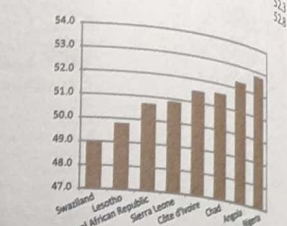
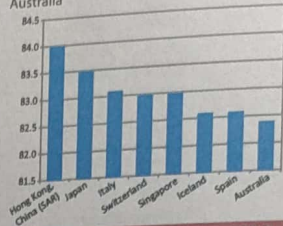
INDIA 2.5



Life expectancy, 2014

Average expected lifespan of babies born in 2014 (years)

Highest life expectancy	Lowest life expectancy
Hong Kong, China (SAR)	84.0
Japan	83.5
Italy	83.1
Switzerland	83.0
Singapore	83.0
Iceland	82.6
Spain	82.6
Australia	82.4
Swaziland	47.0
Lesotho	47.0
Central African Republic	47.0
Sierra Leone	47.0
Côte d'Ivoire	47.0
Chad	47.0
Angola	47.0
Nigeria	47.0

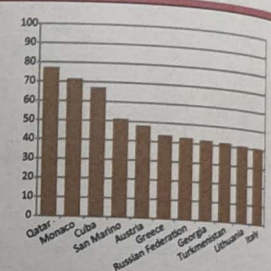


Health care, 2001 - 2013

Number of doctors per 10 000 people

Most doctors per 10 000 people	Fewest doctors per 10 000 people
Qatar	77.4
Monaco	71.7
Cuba	67.2
San Marino	51.3
Austria	48.3
Greece	43.8
Russian Federation	43.1
Georgia	42.4
Turkmenistan	41.8
Lithuania	41.2
Italy	40.9
Tanzania (United Republic of)	0.1
Liberia	0.1
Malawi	0.2
Niger	0.2
Sierra Leone	0.2
Ethiopia	0.3
Burundi	0.3
Somalia	0.4
Chad	0.4
Mozambique	0.4
Burkina Faso	0.5
Central African Republic	0.5
Lesotho	0.5

INDIA 7.0

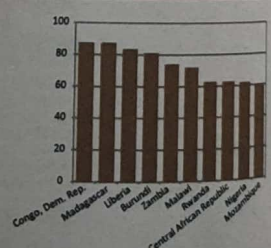


Population below income poverty line (PPP US\$1.25 a day), 2002-2012

The proportion of the population with a standard of living below the national poverty line

Highest percentage of population	
Congo, Dem. Rep.	87.7
Madagascar	87.7
Liberia	83.8
Burundi	81.3
Malawi	74.3
Rwanda	72.2
Central African Republic	63.0
Nigeria	62.8
Mozambique	62.0
INDIA	60.7

INDIA 23.6

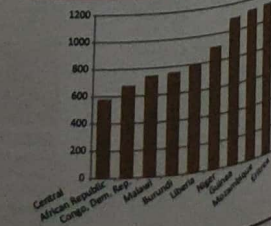


Gross National Income (GNI), 2014

The decent standard of living component of a country is measured by Gross National Income (GNI) per capita (2011 PPP US\$).

Highest GNI	Lowest GNI
Qatar	581
Kuwait	680
Liechtenstein	747
Singapore	79851
Brunei Darussalam	76628
Norway	72570
United Arab Emirates	64992
Luxembourg	60868
Switzerland	58711
Hong Kong, China (SAR)	56431
United States	53959
Saudi Arabia	52947
	52821
Central African Republic	581
Congo, Dem. Rep.	680
Malawi	747
Burundi	7985
Liberia	805
Niger	908
Guinea	1096
Mozambique	1123
Eritrea	1130

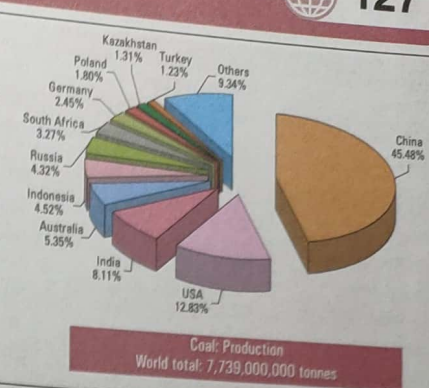
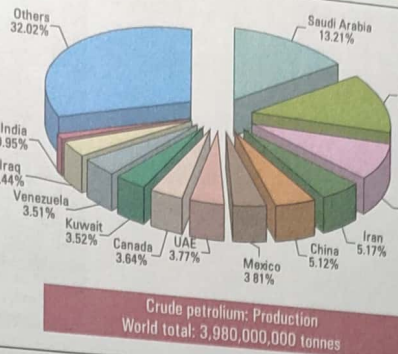
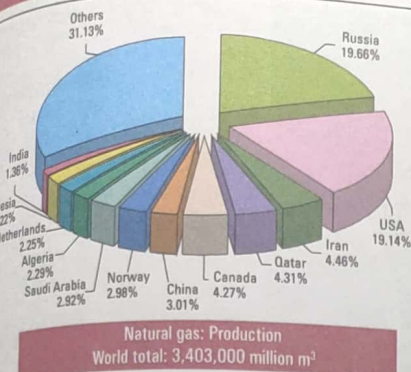
INDIA 3,285



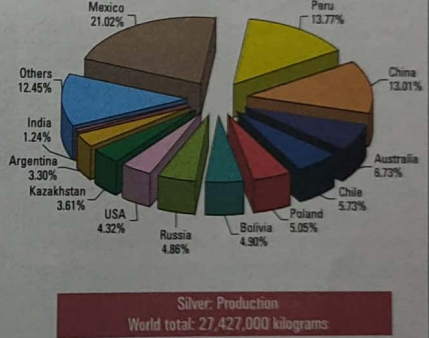
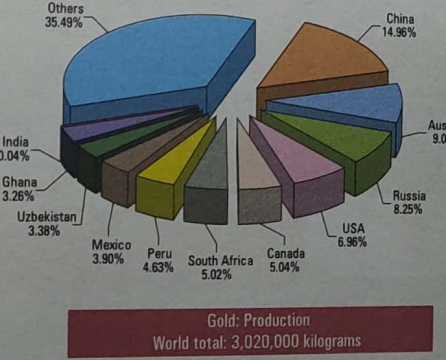
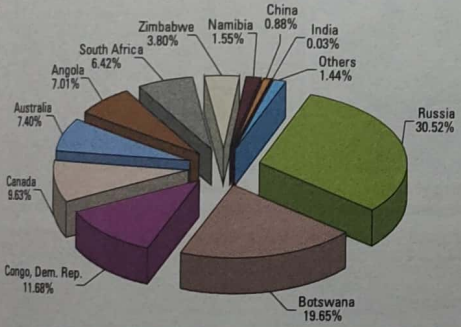
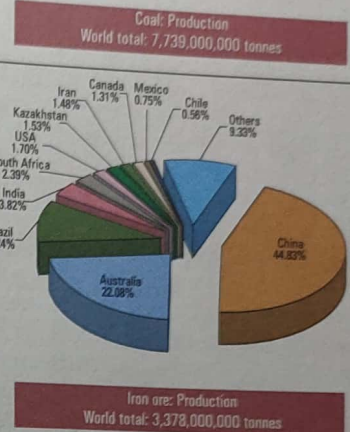
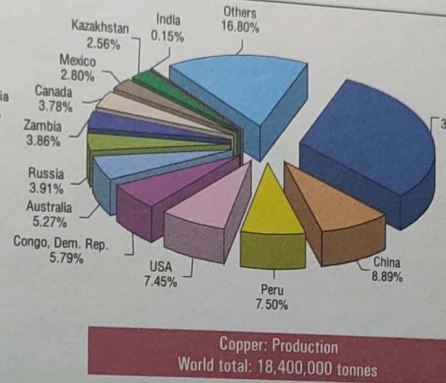
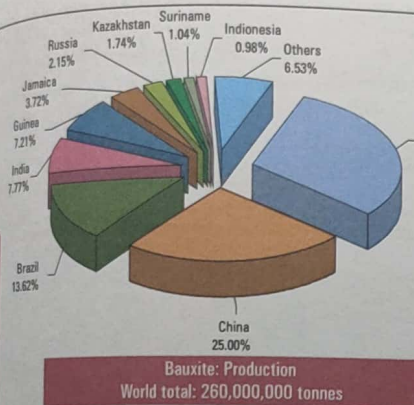
Data source: HDR 2014

Statistics—Economy

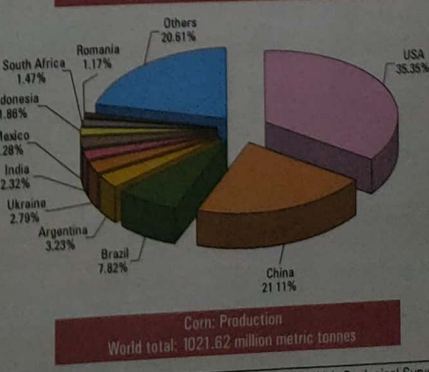
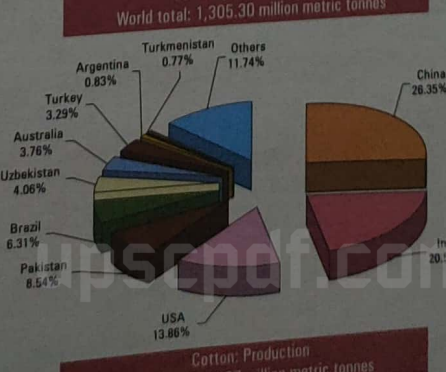
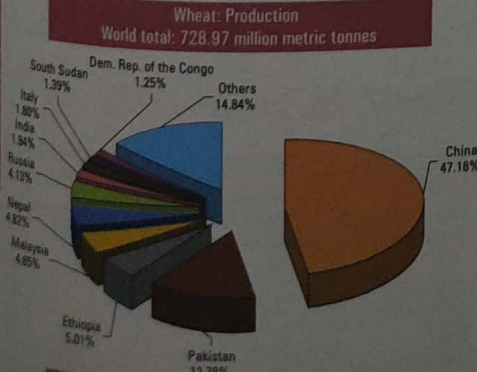
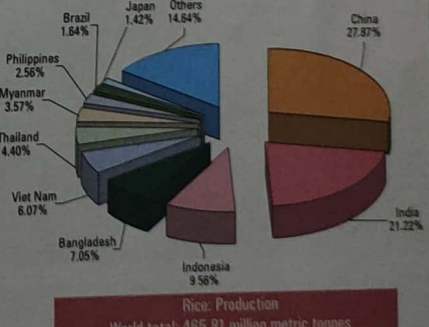
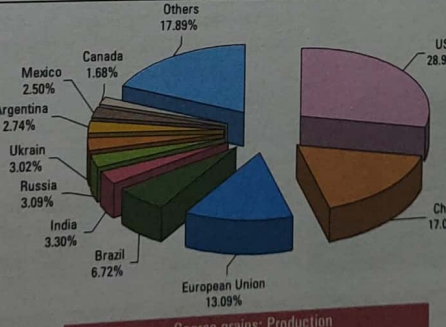
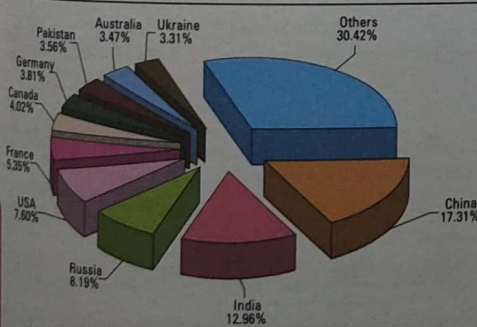
ENERGY (2014-15)



MINERALS (2014-15)



AGRICULTURE (2014-15)



Data source - Energy and Minerals: British Geological Survey
Agriculture: Food and Agricultural Organization (FAO)

WORLD

Earth-Fact File

Situation	Milky Way Galaxy	Orbital speed (around Sun)	29.79 km/sec.
Age	4.6 billion years	Period of revolution	365 days 5 hrs.
Mass	5,940,000,000,000,000,000 Metric tones	Axial tilt	23.45°
Equatorial circumference	40,066 km	Average surface temperatures	13° C
Polar circumference	39,992 km	Surface area	510,100,500 sq km
Equatorial diameter	12,756 km	Land surface	148,950,800 sq km
Polar diameter	12,710 km	No. of satellites	1 (Moon)
Equatorial radius	6,376 km	Nearest star	Sun
Polar radius	6,355 km	Solar light reaches Earth in	8 min. 20 sec.
Distance from Sun	149 407 000 km	Escape velocity	11.2 km/sec.



Earth from Moon

Composition of the Earth and Moon

	Earth (in per cent)	Moon (in per cent)
Iron	34.6	9.3
Oxygen	29.5	42.0
Silicon	15.2	19.6
Magnesium	12.7	18.7
Carbon	1.1	4.3
Aluminum	1.1	4.2
Nickel	2.4	0.6
Sodium	0.6	0.07
Sulphur	1.9	0.3

World, Continents and Oceans

	Area - Sq. km	Area - Miles	%
World			
The World	484,510,420	207,934,764	
Land	148,800,420	57,412,764	30.71
Water	335,710,000	150,522,000	69.29
Continents			
Asia	45,036,492	17,388,686	30.27
Africa	30,343,578	11,715,721	20.39
North America	24,680,331	9,529,129	16.59
South America	17,815,420	6,878,572	11.97
Antarctica	12,093,000	4,669,133	8.13
Europe	9,908,599	3,825,731	6.66
Australia and Oceania	8,923,000	3,405,792	6.00
World Land	148,800,420	57,412,764	100.00
Oceans			
Pacific Ocean	166,241,000	64,186,000	49.52
Atlantic Ocean	86,557,000	33,420,000	25.78
Indian Ocean	73,427,000	28,350,000	21.87
Arctic Ocean	9,485,000	24,566,000	2.83
World Water	335,710,000	150,522,000	100.00

Highest Waterfalls of the World

Name(s)	Location	Source/River	Height (in metres)
Angel	Canaima National Park, Venezuela	Upper tributary of Rio Caroni	979
Tugela	Natal Nat'l Park, South Africa	Tugela	947
Utigord	Norway	Glacier stream	800
Monge	Marstein, Norway	Mongebeck	774
Gocta Cataracts	Chachapoyas, Peru	—	771
Mutarazi	Nyanga National Park, Zimbabwe	Mutarazi	762
Yosemite	Yosemite National Park, California	Yosemite Creek	739



Angel Fall

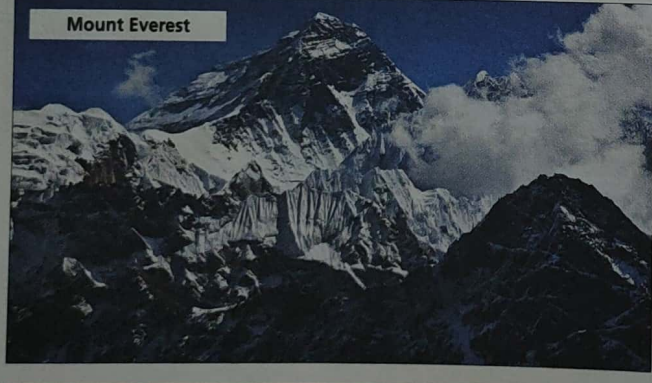
World's largest deserts

Desert	Location	Sq. km
Sahara	North Africa	9,065,000
Gobi	Mongolia-China	1,295,000
Kalahari	Southern Africa	582,000
Great Victoria	Australia	338,500
Great Sandy	Australia	338,500



Sahara Desert

Mount Everest



Highest Peaks and Longest Rivers in the World

Peak	Location	Height (in meters / feet)	River	Country	Length (in kilometers)
Mount Everest	Nepal/China	8,848 / 29,029	Nile	Egypt/Africa	6,695
K2	India	8,611 / 28,251	Amazon	Brazil/South America	6,516
Kangchenjunga	India/Nepal	8,598 / 28,209	Chang Jiang (Yangtze)	China/Asia	6,380
Lhotse	Nepal	8,516 / 27,939	Mississippi-Missouri	USA/North America	5,969
Makalu	Nepal	8,463 / 27,765	Ob'-Irtys	Asia	5,568
Cho Oyu	Nepal/China	8,201 / 26,906	Yenisei-Angara	Russia/Asia	5,550
Dhaulagiri	Nepal	8,167 / 26,794	Huang He (Yellow)	China/Asia	5,464
Manaslu	Nepal	8,163 / 26,781	Congo	Africa	4,667
Nanga Parbat	India	8,126 / 26,660	Parana (Rio de la Plata)	South America	4,500
Annapurna I	Nepal	8,091 / 26,545	Mekong	Asia	4,425

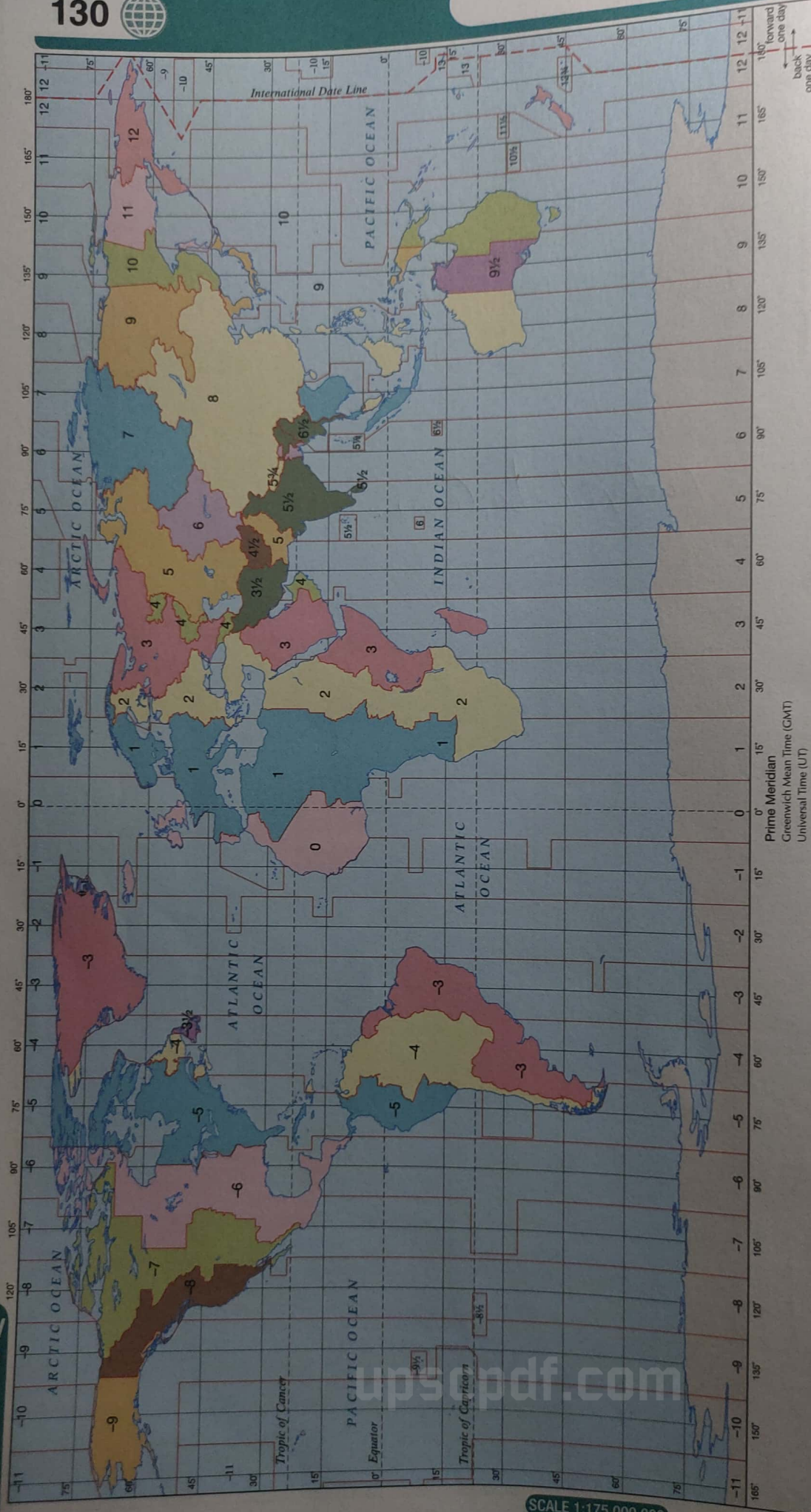
Continental extremes

Continent	Asia	Europe	North America	South America	Africa	Oceania	Antarctica
Area (in sq. km)	45,036,492	9,908,599	24,680,331	17,815,420	30,343,578	8,923,000	12,093,000
Estimated Population (in thousand)	3,679,737	727,986	315,915	349,510	795,671	31,043	—
No. of Countries	49	44	23	12	54	14	—
Highest Point	Mt Everest, Nepal/China; 29,035 ft (8,848 m)	Mt Elbrus, Russia/Georgia; 18,510 ft (5,642 m)	Mt McKinley, Alaska; 20,320 ft (6,194 m)	Mt Aconcagua, Argentina; 22,834 ft (6,960 m)	Mt Kilimanjaro, Tanz.; 19,340 ft (5,895 m)	Kosciusko, Australia; 7,316 ft (2,228 m)	Vinson Massif, Ellsworth Mts; 16,066 ft (4,897 m)
Lowest Point	Dead Sea; 1341 ft below sea level (409 m bsl)	Caspian Sea Shore; 92 ft below sea level (28 m bsl)	Death Valley; 282 ft below sea level (86 m bsl)	Valdes Peninsula; 131 ft below sea level (40 m bsl)	Lake Assal; 512 ft below sea level (156 m bsl)	Lake Eyre; 52 ft below sea level (16 m bsl)	8327 ft below sea level (2,538 m bsl)
Largest Island	Borneo; 745,561 sq. km	Great Britain; 218,476 sq. km	Greenland; 2,175,600 sq. km	Tierra del Fuego; 47,000 sq. km	Madagascar; 587,040 sq. km	New Guinea; 808,510 sq. km	—
Longest river	Chang Jiang (Yangtze); 6,380 km	Volga; 3,688 km	Mississippi-Missouri; 5,969 km	Amazonas (Amazon); 6,516 km	Nile; 6,695 km	Murray-Darling; 3,750 km	—
Largest lake	Caspian Sea; 371,000 sq. km	Lake Ladoga; 18,390 sq. km	Lake Superior; 82,100 sq. km	Lake Titicaca; 8,340 sq. km	Lake Victoria; 68,800 sq. km	Lake Eyre; 9,000 sq. km	—

WORLD



WORLD



THE WORLD CLOCK: The earth is a globe which rotates and spins on its axis, and the sun and stars appear to revolve around it from east to west, because the earth is rotating from west to east. In twenty four hours the earth makes a complete rotation on its axis. The velocity of the earth's rotation is 360° in twenty four hours, or 15° in one hour, or 1° in four minutes. A clock is simply a machine to indicate the speed of the earth's rotation and inform us of the subdivisions of time. We see at a glance that at any place that is 15° east of Greenwich the clock is one hour later than at Greenwich, because the sun has risen one hour earlier, and at any place 15° west of Greenwich the clock is an hour earlier, because the sun is an hour later in rising.

The 180° longitude is taken as the International Date Line where one calendar day ends and another begins. While crossing from east to west one gains a day and loses the same while travelling from west to east. The line is not straight in order to avoid the landmasses which would be divided in terms of time and add to the complexity of time zones.

Standard Time is the time kept on land. Countries may adopt a uniform or multiple time zones keeping in mind the extent of its boundaries longitudinally. Many countries also vary their time.

How to use this Index

The place names or features in this index are arranged in alphabetical order. Each entry in the index starts with the name of the place or feature, followed by the name of the country or region in which it is located. This is followed by the number of the most appropriate page on which the name appears, usually the largest scale map. Next comes the coordinate reference i.e., latitude and longitude, which gives a more exact description of the position of a name or feature. For example, the index entry for Aachen is given as follows:

Aachen Germany (81) 50.47N 6.05E

Aachen is in Germany and appears on page 81. Its latitude is 50 degrees and 47 minutes north of the equator and its longitude is 6 degrees and 05 minutes east of the prime meridian.

Names of the physical features such as rivers, lakes, mountains, etc. are followed by a description, which has been shortened to one or two or three letters, e.g. Everest mountain is written as Everest, Mt The names of rivers have been indexed either according to their origins or according to their mouths.

Where there is more than one place with the same name, the country name is used to decide the order.

Abbreviations used in the index. Table with 2 columns: Abbreviation and Full Name. Includes Archipelago, Cape, East, Island, etc.

Index table columns 1-5: Names, Country/Region, P. No., Lat., Long. Lists entries from Aachen to Appalachen, Mts.

Index table columns 6-10: Names, Country/Region, P. No., Lat., Long. Lists entries from Aqaba to Avignon.

Index table columns 11-15: Names, Country/Region, P. No., Lat., Long. Lists entries from Ayaviri to Banks, I.

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