

B1 专项词汇拓展

天文地理词汇专项提升

SPACE SCIENCE

ASTRONOMY

astronomy /ə'straɪnəmi/

- the scientific study of the universe and of objects that exist naturally in space, such as the moon, the sun, planets, and stars
- 天文学
- astronomer 天文学家
- astronaut 宇航员, 航天员

THE COSMOS

- The cosmos (UK: /'kɒzmos/, US: /-moʊs/) is the Universe.
- Using the word cosmos rather than the word universe implies viewing the universe as a complex and orderly system or entity; the opposite of **chaos**.
- 宇宙（尤指被视为有序体系时的）
- cosmology 宇宙学
- cosmologist 宇宙学家

UNIVERSE

universe /'ju:nɪvɜːrs/

- everything that exists, especially all physical matter, including all the stars, planets, galaxies, etc. in space
- 宇宙；天地万物；万象

- theories of how the universe began 关于宇宙形成的各种理论
- *Einstein's equations showed the universe to be expanding.*



SPACE SCIENCE

- big bang theory 大爆炸理论
- black hole 黑洞
- dark matter 暗物质

Dark matter is material that is believed to form a large part of the universe, but which has never been seen.

- cosmic rays 宇宙射线
- gravity 重力
- magnitude 星的亮度；星等

The star varies in brightness by about three magnitudes.

- outer space 外太空

CELESTIAL BODY

celestial /sə'lestʃl/

- of or from the sky or outside this world
- 天上的, 天空的
- *The astronomers witnessed one of the strangest celestial events ever.*
- **celestial bodies** 天体
- A celestial body is any natural body outside of the Earth's atmosphere.
- *A planet is a celestial body orbiting a star.*

GALAXY

galaxy /'gæləksi/

- 1. any of the large systems of stars, etc. in outer space
- 星系
- *Astronomers have discovered a distant galaxy.*

The Galaxy (also the Milky Way)

- 2. the system of stars that contains our sun and its planets, seen as a bright band in the night sky
- 银河系
- *Within our own galaxy there are probably tens of thousands of planetary systems (行星系).*

STAR

- A star is a large ball of burning gas in space.
- Stars appear to us as small points of light in the sky on clear nights.
- 恒星，星
- *Sirius (天狼星) is the brightest star in the sky.*
- *There was a big moon and hundreds of stars were shining overhead.*

PLANET

- A planet is a large, round object in space that moves around a star.
- 行星
- dwarf planet 矮行星
- *the planet Earth/Venus*
- *Might there be intelligent life on other planets?*

SOLAR SYSTEM

- The solar system is the sun and all the planets that go around it.
- Our solar system is made up of the sun, 8 planets and their moons.
- The planets all orbit around the sun and moons orbit around a planet.
- 太阳系
- *Saturn is the second biggest planet in the solar system.*

TERRESTRIAL (EARTH-LIKE) PLANETS 类地行星

- 水星 Mercury
- 金星 Venus
- 地球 Earth
- 火星 Mars

JOVIAN (JUPITER-LIKE) PLANETS

类木行星

- 木星 Jupiter
- 土星 Saturn
- 天王 Uranus
- 海王 Neptune



Mercury

Venus

Earth

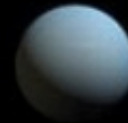
Mars

Jupiter

Saturn

Uranus

Neptune

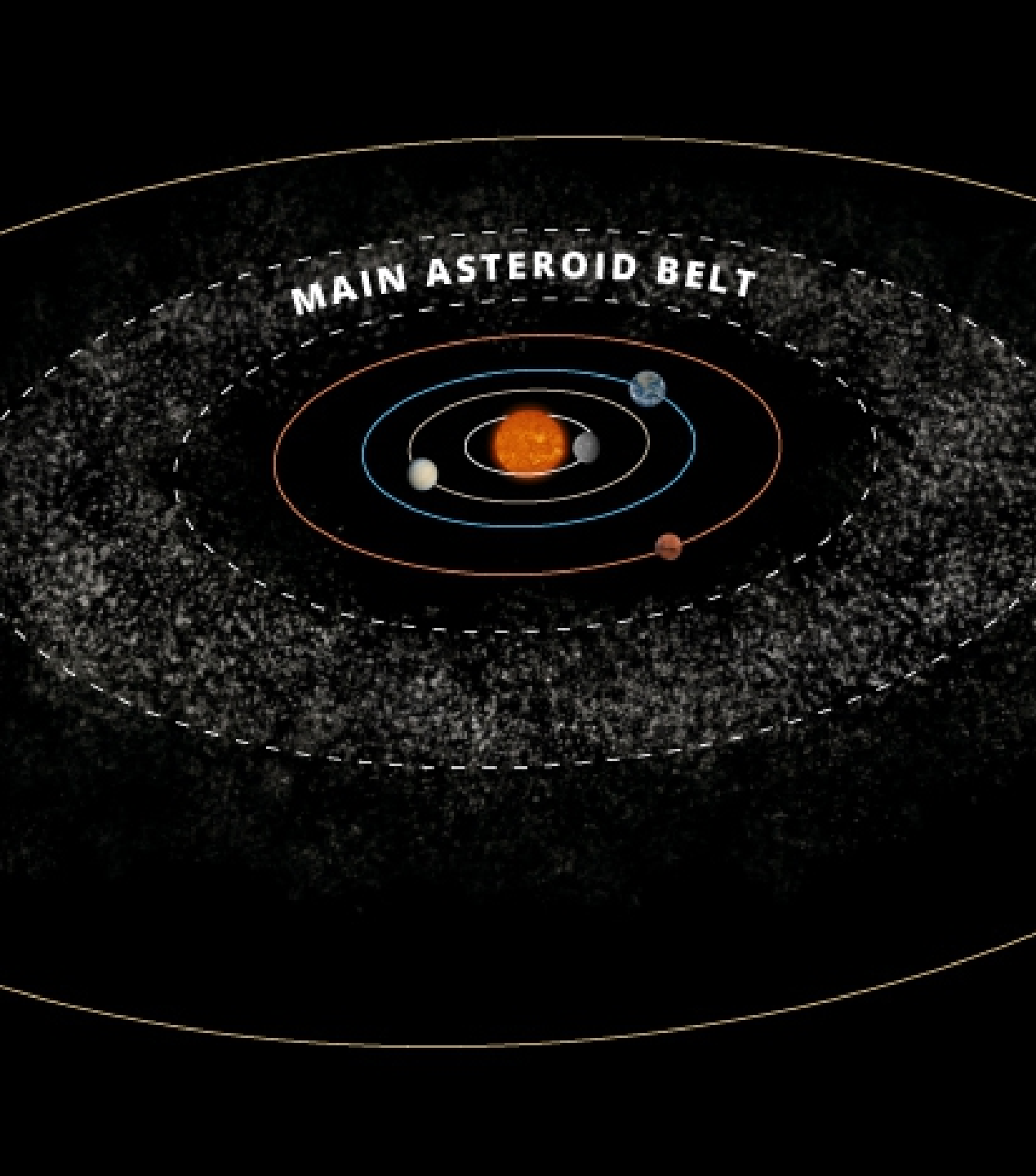




SATELLITE

- 1. a natural object moving around a larger object in space
- 卫星
- *The moon is Earth's satellite.*

- 2. a device sent up into space to travel around the earth, used for collecting information or communicating by radio, television, etc.
- 人造卫星
- A weather/communications satellite 气象/通信卫星
- *The World Cup was transmitted around the world by satellite.*



ASTEROID

asteroid /'æstəroɪd/

- an object like a very large rock that goes around the sun like a planet
- 小行星
- *Scientists are hoping an asteroid will clue them in about early life on earth.*
- *There is an asteroid on a collision course with the Earth.*
- asteroid belt 小行星带（火星和木星间运行）

Giant And 'potentially Hazardous Asteroid' To Zoom Past Earth In March

A 'potentially hazardous asteroid' is all set to zoom past Earth on March 21, 2021. The asteroid named '2001 FO32' would move an incredibly high speed.



Credit: Pixabay-urikyo33



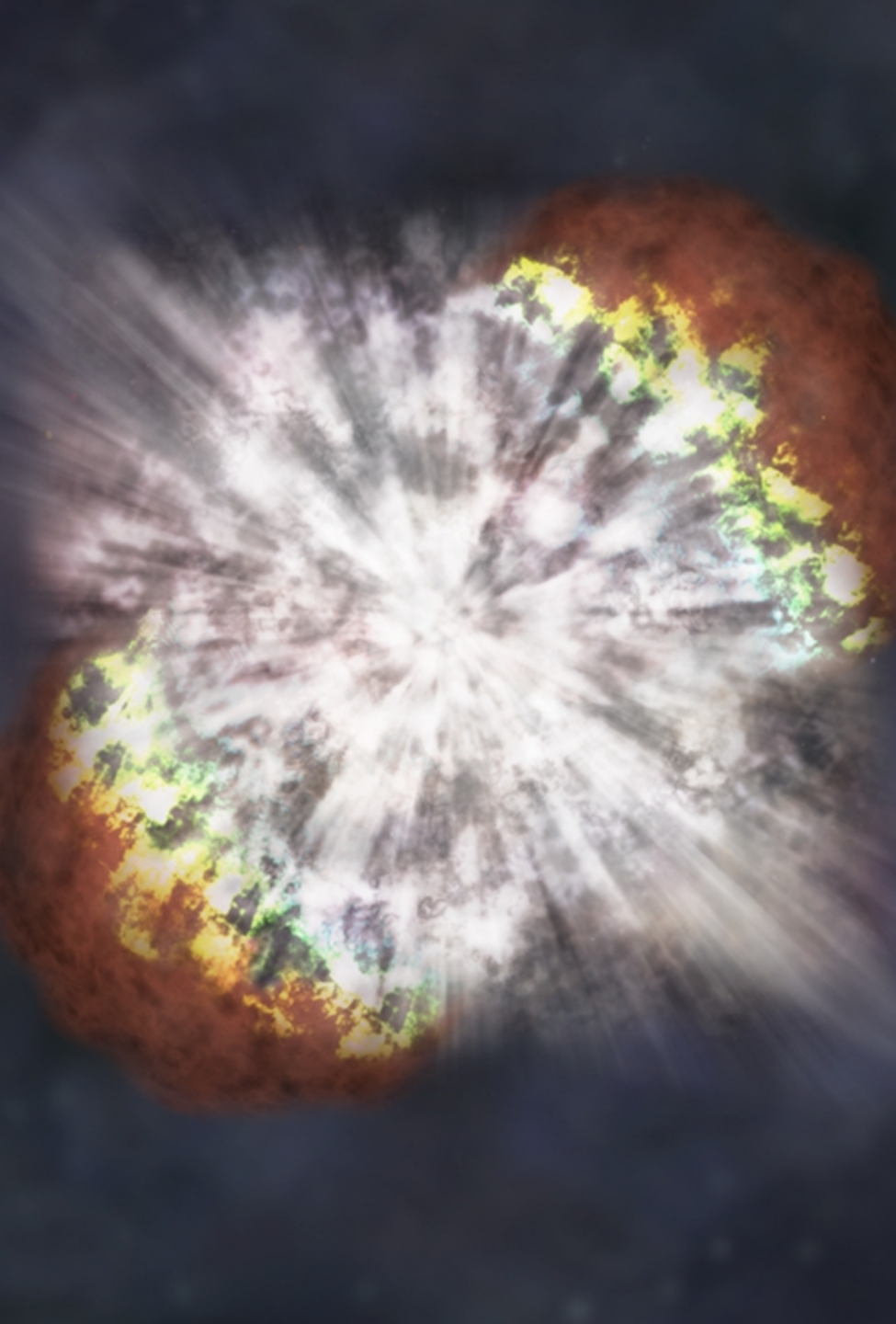
COMET

a body of rock and ice that travels around the sun and that, as it nears the sun, develops a long tail of small pieces that can be seen

彗星

Halley's Comet (哈雷彗星) is going to come back in 2061.

As a comet gets closer to the sun, some gases in it begin to unfreeze.



SUPERNOVA

supernova /'su:pənoʊvə/

- a star that has exploded, strongly increasing its brightness for a few months
- 超新星
- *At least one supernova occurs per decade in our galaxy.*

CONSTELLATION

constellation /ˌkɒnstəˈleɪʃn/

- a group of stars that forms a shape in the sky and has a name
- 星座

horoscope /ˈhɒrəskɒp/

- a description of what is going to happen to you, based on the position of the stars and planets at the time of your birth
- 星象，占星（根据星象算命）



ROTATE

rotate /rəʊ'teɪt/

v. to move or turn around a central fixed point

- 旋转；转动

- *The earth rotates around the sun.*

- rotation /rəʊ'teɪʃn/

- n. the action of an object moving in a circle around a central fixed point

- 旋转；转动

- the daily rotation of the earth on its axis(轴) 地球每天的自转

- *Earth completes 366 rotations(n.) about its axis in every leap year(闰年).*

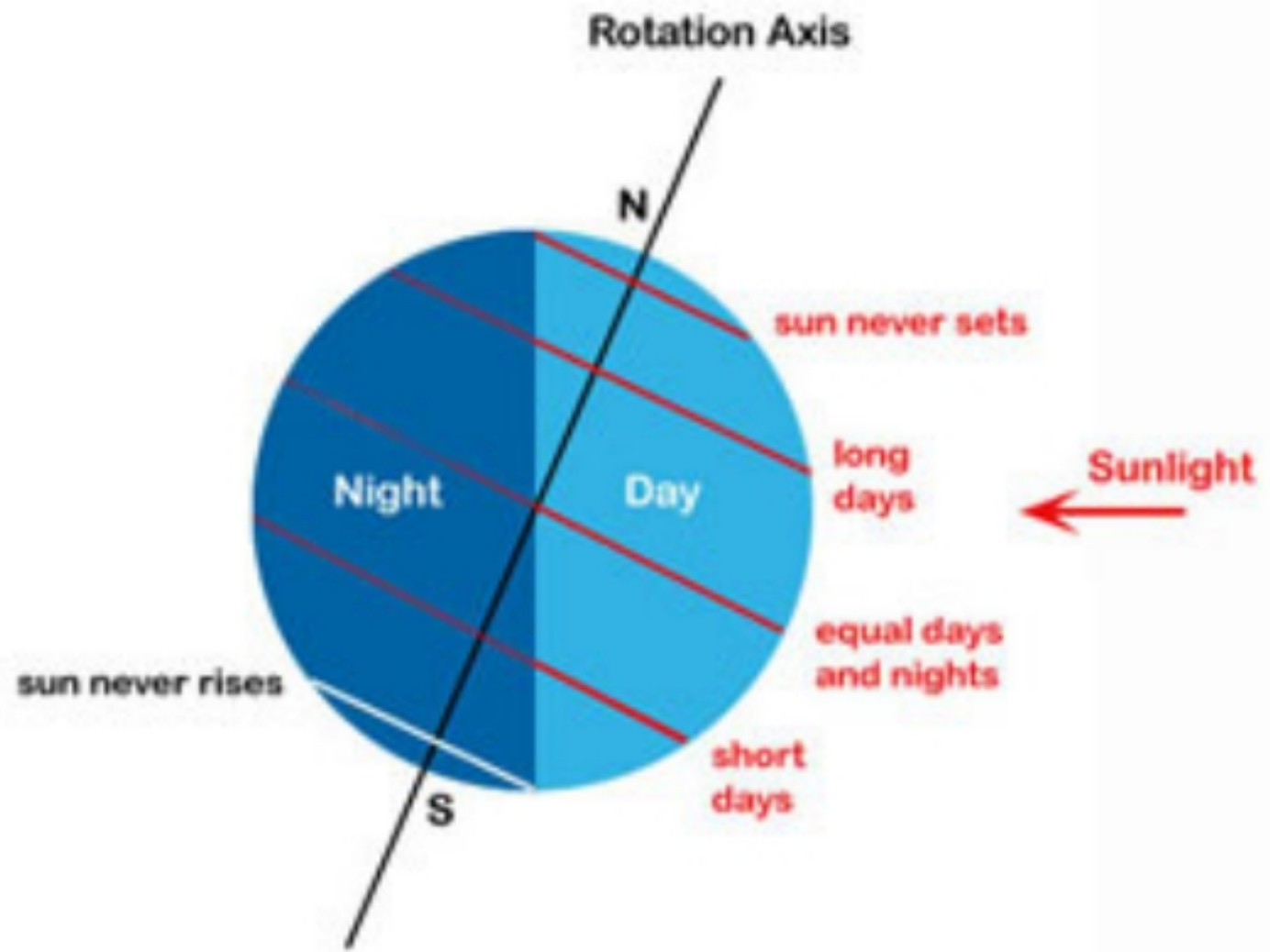
ORBIT

orbit /'ɔ:rbIt/

- 1. v. If something such as a satellite orbits a planet, moon, or sun, it moves around it in a continuous, curving path.
 - 沿轨道运行；围绕…运动
 - *The earth takes a year to orbit the sun.*
- 2. n. a curved path followed by a planet or an object as it moves around another planet, star, moon, etc.
 - （天体等运行的）轨道
 - the earth's orbit around the sun 地球环绕太阳的轨道

EARTH' S ROTATION

- Earth' s rotation on its axis occurs every 24 hours.
- Earth is always moving. Each day, the Earth makes one complete rotation on its axis. The axis is the imaginary line through the earth that extends from the North Pole to the South Pole.
- As Earth rotates, it seems like the sun is moving across the sky, but it' s really the Earth that is spinning. It takes 24 hours to complete one rotation, which is why there are 24 hours in one day.
- In other words, if the sun is visible in the morning starting around 6:00 AM, the Earth will spin completely around by the next morning at 6:00 AM and you will see the sun in about the same place.



EARTH' S ORBIT

- The Earth orbits around the sun every 365.25 days.
- While the Earth is rotating on its axis, it also orbits the sun. It takes a little more than 365 days for the Earth to make a complete trip around the sun.
- Other planets have different orbital times. It takes only 87 days for Mercury to orbit the sun, but 12 years for Jupiter to make the journey.
- Scientists used to think that the Earth was the center of the universe, but phenomena such as stellar parallax have proven that this is not true because the position of some stars change as we orbit.

ECLIPSE

eclipse /ɪˈklɪps/

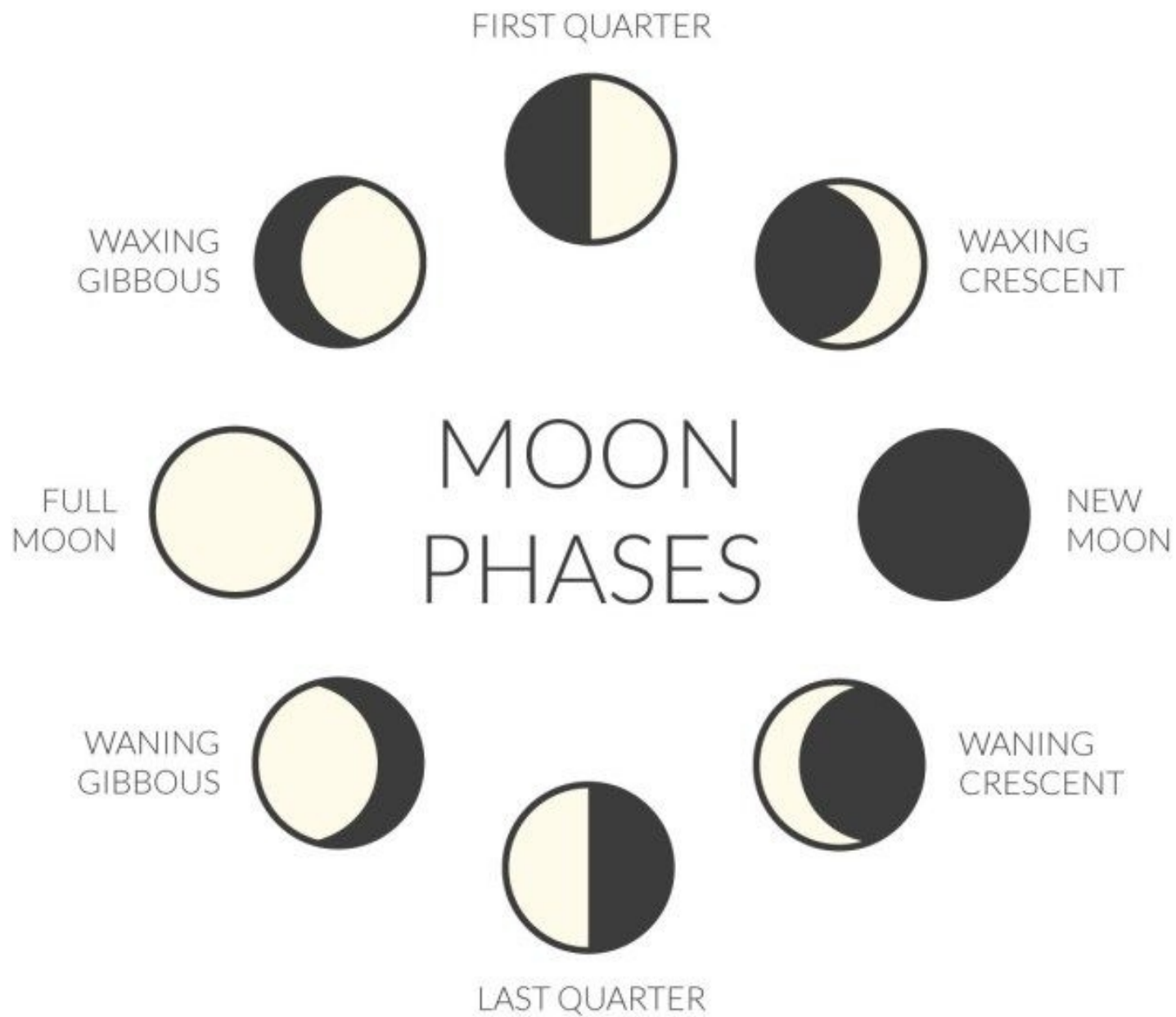
- an occasion when the sun disappears from view, either completely or partly, while the moon is moving between it and the earth, or when the moon becomes darker while the shadow of the earth moves over it
- 日食; 月食
- an eclipse of the sun/moon 日食; 月食
- a total/partial eclipse 全食; 偏食

PHASE

phase /feɪz/

- 1. a stage in a process of change or development
- 阶段；时期
- a critical/decisive phase 关键性／决定性阶段

- 2. each of the shapes of the moon as we see it from the earth at different times of the month
- （月亮的）盈亏



- 新月
- 眉月
- 上弦月
- 盈凸月
- 满月
- 亏凸月
- 下弦月
- 残月

SPACE TRAVEL

- craft/spacecraft 航天器
- rocket 火箭
- spaceship 宇宙飞船
- space shuttle 航天飞机（往返于地球和太空站之间运载人和物资的）
- space station 空间站，太空站
- capsule 太空舱

GEOGRAPHY

SPHERE

sphere /sfɪr/

- an object that is completely round in shape like a ball. 球体

hemisphere /'hemɪsfɪr/

(地球的) 半球

- the northern/southern hemisphere 北/南半球

-sphere

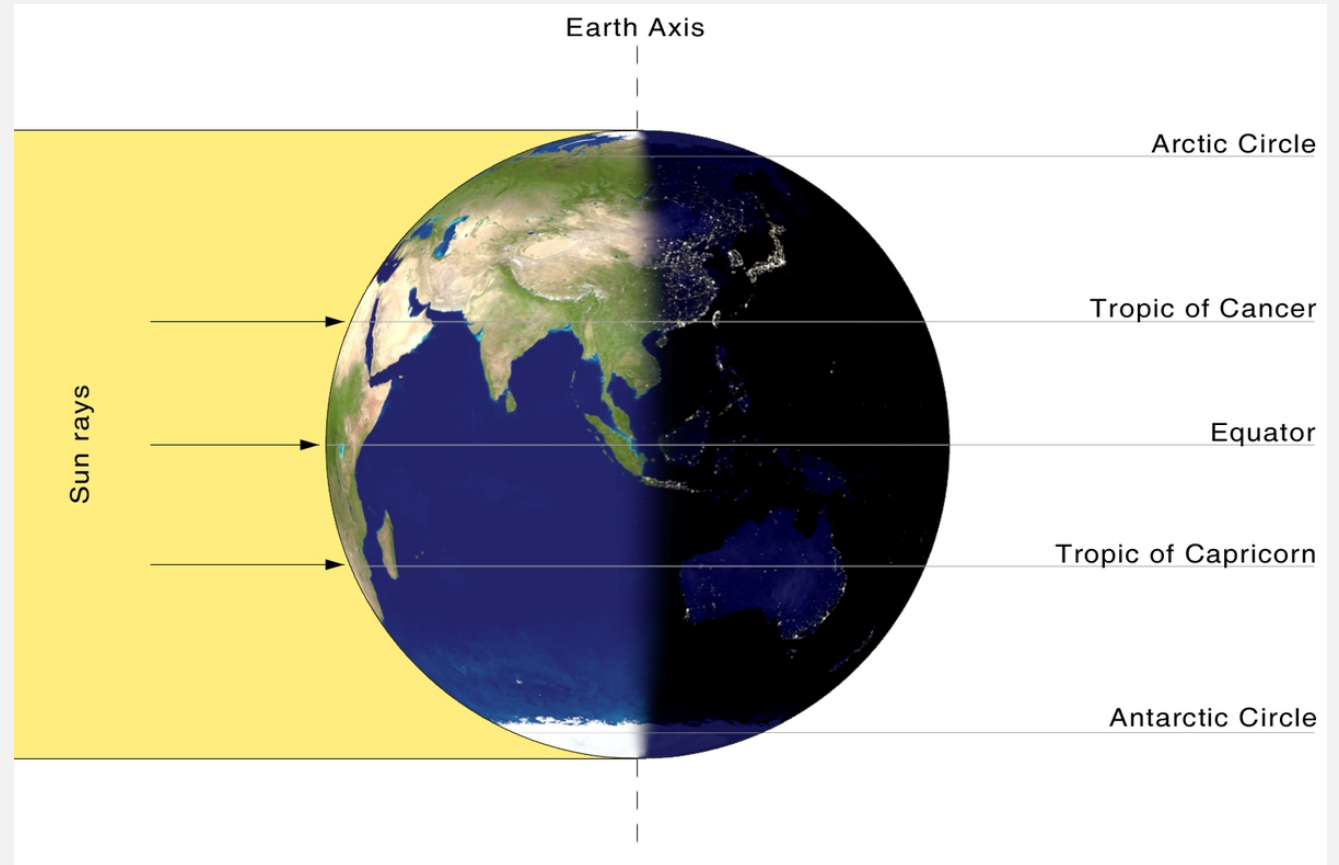
构成名词, a region that surrounds a planet, especially the earth
层

- atmosphere 大气, 大气层
- ionosphere 电离层

EQUATOR

equator /i'kweɪtər/

- an imaginary line around the earth at an equal distance from the North and South Poles
- 赤道



LATITUDE

LONGITUDE

- latitude /'lætɪtu:d/
 - the distance of a place north or south of the equator, measured in degrees
 - 纬度
- parallel /'pærəleɪ/ 纬线; 平行线
- longitude /'lɔ:ndʒɪtu:d/
 - the distance of a place east or west of the Greenwich meridian, measured in degrees
 - 经度
- meridian /mə 'rɪdiən/ 经线

TIME ZONE

time zone

- one of many equal parts into which the world is divided. In any place within each part, the particular point in the day is the same, and is an hour in front of or behind that in the parts on either side
- 时区
- If you go from New York to London, you cross five time zones.

ALTITUDE

altitude /'æltɪtu:d/

- 1. the height above sea level
- 海拔；海拔高度
- *We are flying at an altitude of 6000 meters.*

- 2. a place that is high above sea level
- （海拔高的）高处，高地
- *Snow leopards live at high altitudes .*
- *The athletes trained at altitude in Mexico City.*

HORIZON

horizon /hə'raɪzn/

- the line at the farthest place that you can see, where the sky seems to touch the land or sea
- 地平线
- *The sun sank below the horizon.*
- *The moon rose slowly above the horizon.*

sea level 海平面

- *The top of Mount Everest is 8,844 m above sea level.*

LANDFORM

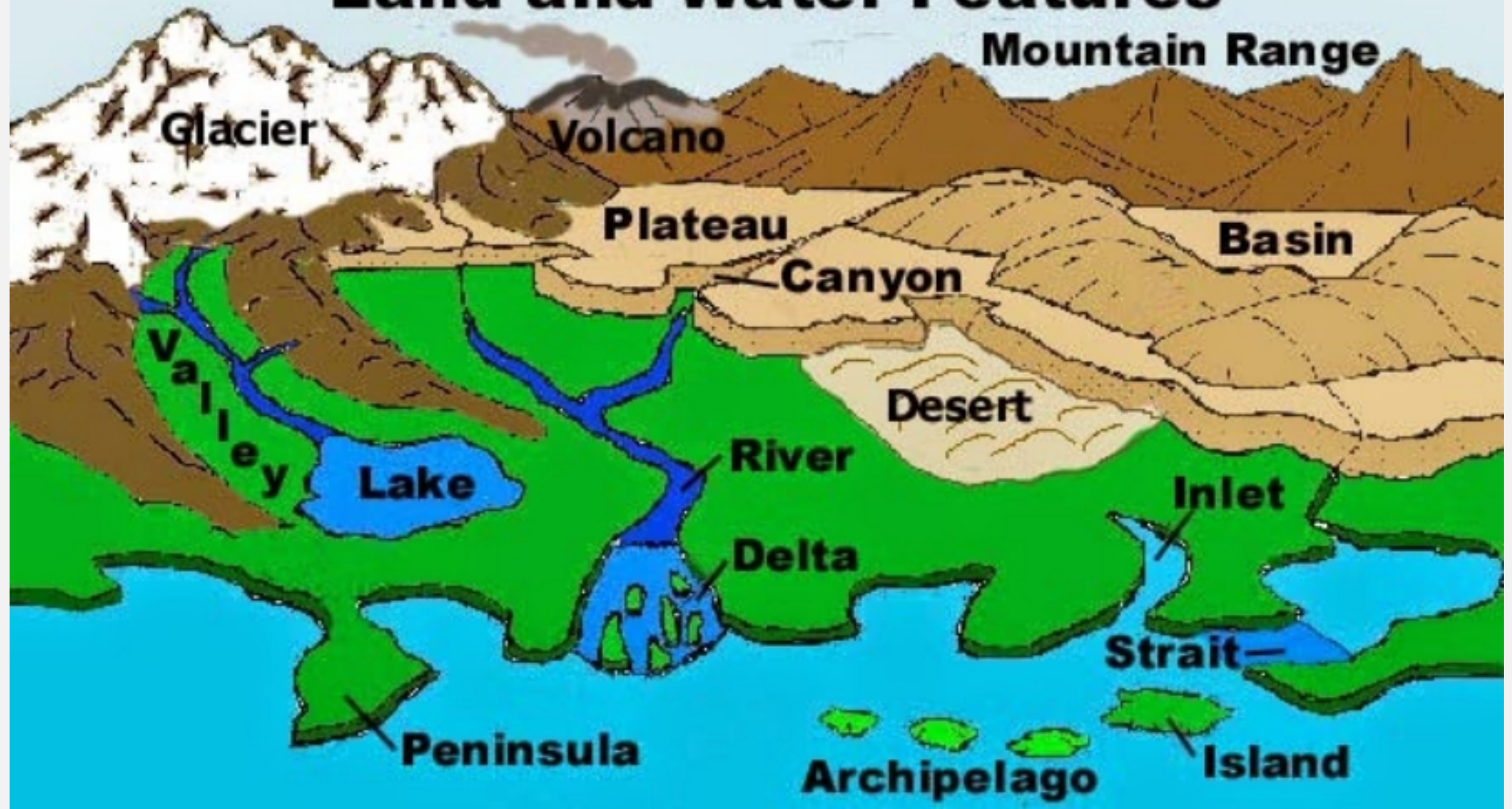
landform /'lændfɔ:rm/

- a natural feature of the earth's surface
- 地形；地貌
- A landform is a feature on the Earth 's surface that is part of the terrain(地势，地带).
- Mountains, hills, plateaus(高原), and plains(平原) are the four major types of landforms.
- Minor landforms include buttes(四周陡峭，顶部平坦的小方山), canyons(峡谷), valleys(山谷), and basins(盆地).



Buttes

Land and Water Features

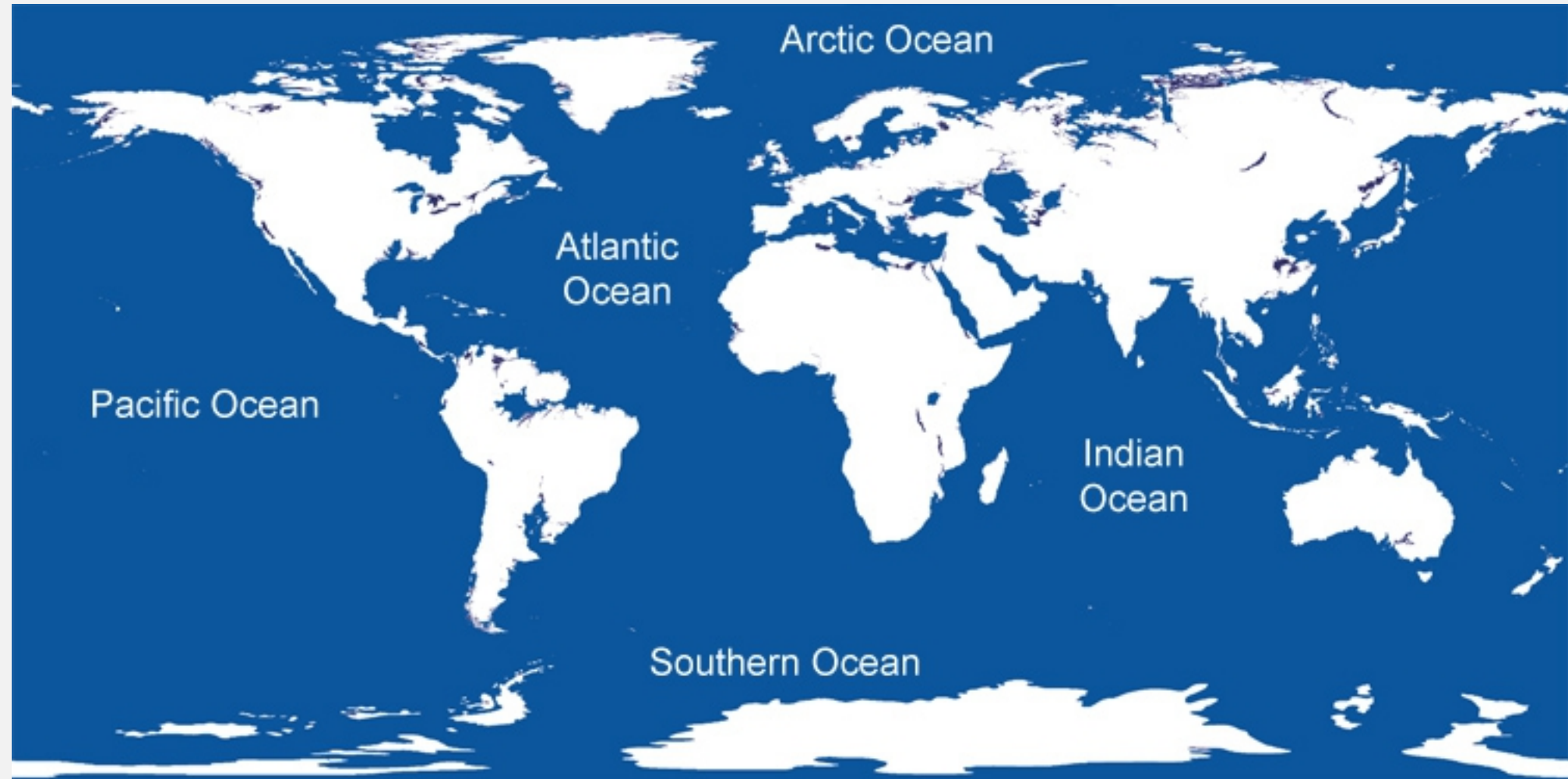


CONTINENTS AND OCEANS

SEVEN CONTINENTS **LARGEST TO SMALLEST**



THE FIVE OCEANS OF THE WORLD



CLIMATE ZONE

- climate zone
- 气候带

- tropical zone 热带
- subtropics 亚热带
- temperate zone 温带
- cold zone 寒带

World Temperature Zones



天文地理类翻译必备词汇

涵盖四六级和考研翻译类常见词汇和表达

- 故宫博物馆 Palace Museum
- 长城 the Great Wall
- 外滩 the Bund
- 华山 Huashan Mountain
- 黄山 Yellow Mountain
- 庐山 Lushan Mountain
- 洱海 Erhai lake
- 黄河 Yellow River
- 长江 Yangtze River
- 珠江 Pearl River
- 太湖 Lake Tai
- 鄱阳湖 Lake Poyang

- 敦煌莫高窟 Dunhuang Mogao Caves
- 大兴安岭 Greater Khing' an Mountains
- 小兴安岭 Lesser Khing' an Mountains
- 布达拉宫 Potala Palace
- 日月潭 Lake Sun Moon
- 淡水湖 freshwater lake
- 沿海港口 coastal port
- 植物园 botanical garden
- 西部地区 western regions
- 省会 provincial capital
- 水域面积 water area
- 三面环山 to be surrounded by mountains on three sides
- 提高全民环保意识 raise environmental awareness amongst the general public
- 环保产品 environment-friendly product
- 一次性产品 disposable product