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PLATE TECTONICS FROM LATIN TECTONICUS FROM ANCIENT GREEK ΤΕΚΤΟΝΙΚΟΣ ΤΕΚΤΟΝΙΚΩΣ PERTAINING TO BUILDING IS THE SCIENTIFIC THEORY THAT EARTH'S LITHOSPHERE COMPRISES A NUMBER OF LARGE TECTONIC PLATES WHICH HAVE BEEN SLOWLY MOVING SINCE ABOUT 3.4 BILLION YEARS AGO. PLATE TECTONICS IS A SCIENTIFIC THEORY THAT EXPLAINS HOW MAJOR LANDFORMS ARE CREATED AS A RESULT OF EARTH'S SUBTERRANEAN MOVEMENTS. THE THEORY WHICH SOLIDIFIED IN THE 1960S TRANSFORMED THE EARTH SCIENCES BY EXPLAINING MANY PHENOMENA INCLUDING MOUNTAIN BUILDING, EVENTS, VOLCANOES, AND EARTHQUAKES. IN PLATE TECTONICS, EARTH'S OUTERMOST LITHOSPHERE IS DIVIDED INTO A NUMBER OF TECTONIC PLATES. THESE PLATES MOVE AND INTERACT WITH ONE ANOTHER, DRIVEN BY CONVECTIONAL FORCES WITHIN THE EARTH. THE MAP AT THE TOP OF THIS PAGE SHOWS THE GEOGRAPHIC LOCATION AND EXTENT OF 15 MAJOR LITHOSPHERIC PLATES. PLATE TECTONICS THEORY DEALING WITH THE DYNAMICS OF EARTH'S OUTER SHELL, THE LITHOSPHERE, THAT REVOLUTIONIZED EARTH SCIENCES BY PROVIDING A UNIFORM CONTEXT FOR UNDERSTANDING MOUNTAIN BUILDING PROCESSES, VOLCANOES, AND EARTHQUAKES, AS WELL AS THE EVOLUTION OF EARTH'S SURFACE AND RECONSTRUCTING ITS PAST CONTINENTS AND OCEANS. EARTH'S LITHOSPHERE OR OUTERMOST SHELL IS BROKEN UP INTO LARGE PIECES CALLED TECTONIC PLATES. THESE PLATES MOVE SLOWLY OVER THE ASTHENOSPHERE, A LAYER OF SOFTER ROCK BELOW THE LITHOSPHERE. ON AVERAGE, TECTONIC PLATES MOVE A FEW CENTIMETERS PER YEAR. THE PLACE WHERE TWO PLATES MEET IS CALLED A PLATE BOUNDARY. BOUNDARIES BETWEEN THE PLATES ARE OF THREE TYPES: DIVERGENT (MOVING APART), CONVERGENT (MOVING TOGETHER), AND TRANSFORM (MOVING SIDE BY SIDE). ALTHOUGH THE PLATES ARE IN CONSTANT MOTION AND MOVE IN DIFFERENT DIRECTIONS, THERE IS NEVER A SIGNIFICANT AMOUNT OF SPACE BETWEEN THEM. PRACTICE WITH PLATE BOUNDARY TYPES: THE EARTH'S PLATES JOSTLE ABOUT IN FITS AND STARTS THAT ARE PUNCTUATED WITH EARTHQUAKES AND VOLCANIC ERUPTIONS. LEARN ABOUT HOW PLATES MOVE AND THEIR IMPACT ON THE EARTH'S SURFACE. SKIP TO THE TECTONIC PLATES THAT CONNECT THE PARTS OF EARTH'S LITHOSPHERE, MUCH LIKE THE PIECES OF A JIGSAW PUZZLE. UNLIKE PUZZLE PIECES, TECTONIC PLATES DO NOT REST ON A STABLE SURFACE. INSTEAD, THEY FLOAT ON THE MOVING SEMI-LIQUID PORTION OF THE MANTLE CALLED THE ASTHENOSPHERE. SCIENTISTS NOW HAVE A FAIRLY GOOD UNDERSTANDING OF HOW THE PLATES MOVE AND HOW SUCH MOVEMENTS RELATE TO EARTHQUAKE ACTIVITY. MOST MOVEMENT OCCURS ALONG NARROW ZONES BETWEEN PLATES WHERE THE RESULTS OF PLATE TECTONIC FORCES ARE MOST EVIDENT. THERE ARE FOUR TYPES OF PLATE BOUNDARIES: TECTONIC PLATES, THE MASSIVE SLABS OF EARTH'S LITHOSPHERE THAT HELP DEFINE OUR CONTINENTS AND OCEANS, ARE CONSTANTLY ON THE MOVE. PLATE TECTONICS IS DRIVEN BY A VARIETY OF FORCES: DYNAMIC MOVEMENT IN THE MANTLE, DENSE OCEANIC CRUST INTERACTING WITH THE DUCTILE ASTHENOSPHERE, EVEN THE ROTATION OF THE PLANET. WHAT ARE TECTONIC PLATES? TECTONIC PLATES ARE LARGE, IRREGULAR SHAPED SLABS OF ROCK MAKING UP THE EARTH'S CRUST AND UPPER MANTLE. THEY ARE FOUND TO FLOAT ON TOP OF A SEMI-LIQUID LAYER OF ROCK CALLED THE ASTHENOSPHERE. A NOUN: AN OPENING IN THE EARTH'S CRUST THROUGH WHICH LAVA, ASH, AND GASES ERUPT, AND ALSO THE CONE BUILT BY ERUPTIONS. EARTH'S TECTONIC PLATES FIT TOGETHER IN A JIGSAW PUZZLE OF PLATE BOUNDARIES. PLATE TECTONICS: MOST VOLCANOES FORM AT THE BOUNDARIES OF EARTH'S TECTONIC PLATES. THESE PLATES ARE HUGE SLABS OF EARTH'S CRUST AND UPPER MANTLE WHICH FIT TOGETHER LIKE PIECES OF A PUZZLE. THE FLOW OF THE MANTLE CAUSES THE PLATES TO MOVE IN DIFFERENT DIRECTIONS. WHEN THE EDGES OF PLATES MEET, FOUR THINGS CAN HAPPEN. EVEN THOUGH PLATES MOVE VERY SLOWLY, THEIR MOTION, CALLED PLATE TECTONICS, HAS A HUGE IMPACT ON THE EARTH. THE EARTH'S CRUST IS BROKEN UP INTO A SERIES OF MASSIVE SECTIONS CALLED PLATES. THESE TECTONIC PLATES REST UPON THE CONVECTING MANTLE WHICH CAUSES THEM TO MOVE. THE MOVEMENTS OF THESE PLATES CAN ACCOUNT FOR NOTICEABLE GEOLOGIC EVENTS SUCH AS EARTHQUAKES, VOLCANIC ERUPTIONS, AND MORE SUBTLE YET SUBLIME EVENTS LIKE THE BUILDING OF MOUNTAINS. RATES OF MOTIONS OF THE MAJOR PLATES RANGE FROM LESS THAN 1 CM/Y TO OVER 10 CM/Y. THE PACIFIC PLATE IS THE FASTEST, FOLLOWED BY THE AUSTRALIAN AND NAZCA PLATES. THE NORTH AMERICAN PLATE IS ONE OF THE SLOWEST, AVERAGING AROUND 1 CM/Y IN THE SOUTH UP TO ALMOST 4 CM/Y IN THE NORTH. THE COLLIDING FRICTIONAL FORCES BETWEEN THE TWO PLATES CREATE EARTHQUAKES STARTING AROUND THE TRENCH AND PROGRESSING INWARD ALONG THE SUBDUCTION PLATE. JUST LIKE CONTINENTAL TO OCEANIC CONVERGENCE, THIS PLATE BOUNDARY CAN GENERATE POWERFUL EARTHQUAKES AND VOLCANOES. THE POINT WHERE TWO OR MORE PLATES MEET IS KNOWN AS A PLATE BOUNDARY. IT IS AT THESE LOCATIONS WHERE EARTHQUAKES, VOLCANOES, AND FOLD MOUNTAINS FORM. THERE ARE FOUR MAIN TYPES OF PLATE BOUNDARY. THESE

ARE CONSTRUCTIVE DESTRUCTIVE CONSERVATIVE AND COLLISION MARGINS THE READINGS SECTION PRESENTS PROF WIERZBICKI S COMPLETE MONOGRAPH STYLE NOTES FOR THE COURSE PLUS AN EXTENSIVE LIST OF SUPPLEMENTARY REFERENCES SPECIAL PLATES PERSONALIZED PLATES PERSONALIZED LICENSE PLATES ARE AVAILABLE FOR OAHU RESIDENTS WITH CARS TRUCKS MOTORCYCLES AND TRAILERS CURRENTLY REGISTERED WITH THE CITY AND COUNTY OF HONOLULU GENERAL INFORMATION OAHU RESIDENTS MAY ORDER PERSONALIZED LICENSE PLATES AS A GIFT FOR AN INDIVIDUAL WITH A VEHICLE REGISTERED IN THE CITY AND COUNTY OF HONOLULU IT WILL

PLATE TECTONICS WIKIPEDIA *May 13 2024*

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PLATE TECTONICS NATIONAL GEOGRAPHIC SOCIETY *Apr 12 2024*

PLATE TECTONICS IS A SCIENTIFIC THEORY THAT EXPLAINS HOW MAJOR LANDFORMS ARE CREATED AS A RESULT OF EARTH'S SUBTERRANEAN MOVEMENTS THE THEORY WHICH SOLIDIFIED IN THE 1960S TRANSFORMED THE EARTH SCIENCES BY EXPLAINING MANY PHENOMENA INCLUDING MOUNTAIN BUILDING EVENTS VOLCANOES AND EARTHQUAKES IN PLATE TECTONICS EARTH'S OUTERMOST

PLATE TECTONICS MAP PLATE BOUNDARY MAP GEOLOGY COM *Mar 11 2024*

THE LITHOSPHERE IS DIVIDED INTO A NUMBER OF TECTONIC PLATES THESE PLATES MOVE AND INTERACT WITH ONE ANOTHER DRIVEN BY CONVECTIONAL FORCES WITHIN THE EARTH THE MAP AT THE TOP OF THIS PAGE SHOWS THE GEOGRAPHIC LOCATION AND EXTENT OF 15 MAJOR LITHOSPHERIC PLATES

PLATE TECTONICS DEFINITION THEORY FACTS EVIDENCE *FEB 10 2024*

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4.4 PLATES PLATE MOTIONS AND PLATE BOUNDARY PROCESSES *DEC 08 2023*

BOUNDARIES BETWEEN THE PLATES ARE OF THREE TYPES DIVERGENT MOVING APART CONVERGENT MOVING TOGETHER AND TRANSFORM MOVING SIDE BY SIDE ALTHOUGH THE PLATES ARE IN CONSTANT MOTION AND MOVE IN DIFFERENT DIRECTIONS THERE IS NEVER A SIGNIFICANT AMOUNT OF SPACE BETWEEN THEM PRACTICE WITH PLATE BOUNDARY TYPES

PLATE TECTONICS INFORMATION AND FACTS NATIONAL GEOGRAPHIC *Nov 07 2023*

THE EARTH'S PLATES JOSTLE ABOUT IN FITS AND STARTS THAT ARE PUNCTUATED WITH EARTHQUAKES AND VOLCANIC ERUPTIONS LEARN ABOUT HOW PLATES MOVE AND THEIR IMPACT ON THE EARTH'S SURFACE SKIP TO

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THE TECTONIC PLATES CONNECT THE PARTS OF EARTH'S LITHOSPHERE MUCH LIKE THE PIECES OF A JIGSAW PUZZLE UNLIKE PUZZLE PIECES TECTONIC PLATES DO NOT REST ON A STABLE SURFACE INSTEAD THEY FLOAT ON THE MOVING SEMI LIQUID PORTION OF THE MANTLE CALLED THE ASTHENOSPHERE

UNDERSTANDING PLATE MOTIONS THIS DYNAMIC EARTH USGS SEP 05 2023

SCIENTISTS NOW HAVE A FAIRLY GOOD UNDERSTANDING OF HOW THE PLATES MOVE AND HOW SUCH MOVEMENTS RELATE TO EARTHQUAKE ACTIVITY MOST MOVEMENT OCCURS ALONG NARROW ZONES BETWEEN PLATES WHERE THE RESULTS OF PLATE TECTONIC FORCES ARE MOST EVIDENT THERE ARE FOUR TYPES OF PLATE BOUNDARIES

EARTH'S SHIFTING TECTONIC PLATES NATIONAL GEOGRAPHIC SOCIETY *Aug 04 2023*

TECTONIC PLATES THE MASSIVE SLABS OF EARTH'S LITHOSPHERE THAT HELP DEFINE OUR CONTINENTS AND OCEAN ARE CONSTANTLY ON THE MOVE PLATE TECTONICS IS DRIVEN BY A VARIETY OF FORCES DYNAMIC MOVEMENT IN THE MANTLE DENSE OCEANIC CRUST INTERACTING WITH THE DUCTILE ASTHENOSPHERE EVEN THE ROTATION OF THE PLANET

PLATE TECTONICS DEFINITION THEORY TYPES FACTS EVIDENCE *JUL 03 2023*

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PLATE BOUNDARIES NATIONAL GEOGRAPHIC SOCIETY JUN 02 2023

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PLATE TECTONICS AND VOLCANIC ACTIVITY *MAY 01 2023*

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PLATES ON THE MOVE ARTICLE KHAN ACADEMY MAR 31 2023

THE FLOW OF THE MANTLE CAUSES THE PLATES TO MOVE IN DIFFERENT DIRECTIONS WHEN THE EDGES OF PLATES MEET FOUR THINGS CAN HAPPEN EVEN THOUGH PLATES MOVE VERY SLOWLY THEIR MOTION CALLED PLATE TECTONICS HAS A HUGE IMPACT ON THE EARTH

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LIKE THE BUILDING OF MOUNTAINS

10 4 PLATE PLATE MOTIONS AND PLATE BOUNDARY PROCESSES *JAN 29 2023*

RATES OF MOTIONS OF THE MAJOR PLATES RANGE FROM LESS THAN 1 CM Y TO OVER 10 CM Y THE PACIFIC PLATE IS THE FASTEST FOLLOWED BY THE AUSTRALIAN AND NAZCA PLATES THE NORTH AMERICAN PLATE IS ONE OF THE SLOWEST AVERAGING AROUND 1 CM Y IN THE SOUTH UP TO ALMOST 4 CM Y IN THE NORTH

5 4 PLATE BOUNDARIES GEOSCIENCES LIBRETEXTS *DEC 28 2022*

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