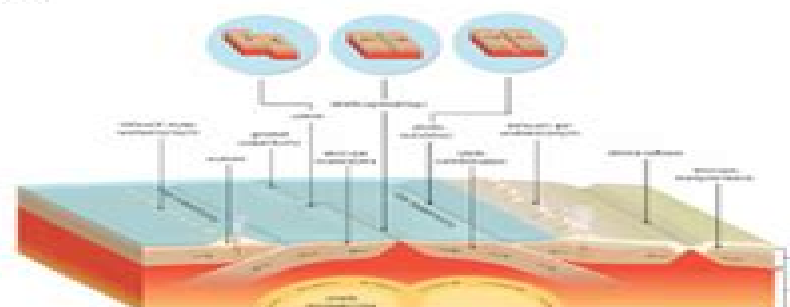
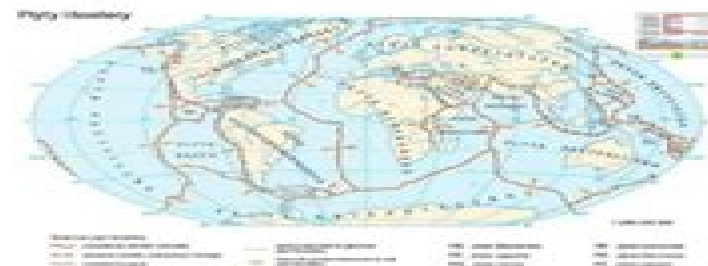


TEMAT LEKCJI: Tektonika płyt litosfery.

Na tej lekcji dowiesz się: jakie są założenia teorii tektoniki płyt litosfery; na czym polegają procesy subdukcji i spredingu; jakie są ich skutki i jakie zjawiska im towarzyszą; jakie typy granic występują między płytami litosfery.

1. Teoria dryfu kontynentów wg Alfreda Wegenera (dopiero w roku 1912) – przysłał, że w przeszłości lądy tworzyły jeden wielki kontynent zwany Pangeą, który następnie uległ rozszerzeniu. Argumenty na hipotezę:
 - a)
 - b)
 - c)
 - d)
2. Teoria tektoniki płyt litosfery tłumaczy m.in. wędrowanie kontynentów, ruchy pomiędzy płytami oraz procesy im towarzyszące, takie jak: plutonizm, wulkanizm, trzęsienia ziemi:
 - a) skorupa ziemiska podzielona jest na 7 wielkich płyt litosfery (.....) i kilka mniejszych.
 - b) Co wywołuje ruch płyt litosfery? Prądy konwekcyjne w astenosferze.
 - c) Ruch płyt litosfery – prądy konwekcyjne unoszą materię z wnętrza Ziemi (głęboko jest najcieplej) ku jej powierzchni (tak jak ciepłe powietrze unosi się do góry, gdyż jest lżejsze), co powoduje:



- **poszerzanie się płyt litosfery (strefa spredingu – granica rozbieżna)** → powstają wąskie, długie pęknięcia zwane **ryftami**:

- na oceanach po obu stronach ryftu powstają **grzbiechy śródoceaniczne** np. Grzbiet Śródziemnytycki. W takich miejscach mamy pryzmat dna (w tempie 1-12 cm rocznie) i najmłodsze skały na ziemi (głównie bazalty), jeśli grzbiechy wystają ponad powierzchnię wody, tworzą wyspy np. Islandia.
- na kontynentach powstają też ryfty kontynentalne np. Wielkie Równiny Afrykańskie. Jak myślisz, czy Płw. Somalijski oddzieli się kiedyś od Afryki?

- **podsuwanie się płyty oceanicznej pod kontynentalną (strefa subdukcji – granica zbieżna)** → powstają na dnie oceanu wąskie, długie obrzeżenia zwane **rowami** (np. najgłębszy na świecie Rów Marianski). Są to tzw. strefy kolizji płyt:

- **płyta oceaniczna** (np. Płazca) + **płyta kontynentalna** (np. Południowoamerykańska) = powstawanie gór fałdowych (Andy), wybuchy wulkanów, trzęsienia ziemi. Jak myślisz, dlaczego płyta oceaniczna zawsze podsuwa się pod płytę kontynentalną a nie na odwrót?
- **płyta oceaniczna** (np. Pacyficzna) + **płyta oceaniczna** (np. Filipińska) = powstawanie gór wulkanicznych i łuków wysp wulkanicznych, wybuchy wulkanów, trzęsienia ziemi
- **płyta kontynentalna** (np. Euroazjatycka) + **płyta kontynentalna** (np. Indyjska) = powstawanie gór fałdowych (Himalaje), trzęsienia ziemi

- **wąski transformacyjny (granica transformująca)** – wzdłuż nich płyty przesuwają się równolegle względem siebie z różną prędkością, np. uskoki San Andreas. Wdruśnij sobie już film pt. „San Andreas”!

3. Wykorzystując internet oraz inne źródła informacji podpisz główne płyty tektoniczne. Umieść strzałki w kratkach w zależności od głównego kierunku dryfu określonych płyt.



3. Wykonaj zadania 1-5/str.209 w podręczniku oraz karty pracy to tematu Tektonika płyt litosfery.

Rol Sdvigovoi Tektoniki V Strukture Litosfer Zemli I Planetzemnoi Gruppy

Camilla Rothe



Rol Sdvigovoi Tektoniki V Strukture Litosfer Zemli I Planetzemnoi Gruppy:

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