

## Mezozoik TRIJAS

### Trijas

#### ~ podjela:

- . donji trijas (induan, olenekij, nekada skit ili verfen): 251 - 245 mil. god.
- . srednji trijas (anizik, ladinik): 245 - 228 mil. god.
- . gornji trijas (karnik, norik, ret): 228 - 200 mil. god.

#### ~ Njemačka:

- . d. trijas - Buntsandstein
- . sr. trijas - Muschelkalk
- . g. trijas - Keuper

### Trijas

#### ~ važniji biološki događaji

- . d. trijas: prvi heksakoralji
- . sr. trijas: prvi dinosauri
- . g. trijas: diverzifikacija terapsida, rani sisavci

#### ~ važniji paleogeografski događaji

- . g. trijas: početak inicijalne dezintegracije Pangee

### **Trijas**

~ **obnova života nakon permskog masovnog izumiranja:**

- . u potpunosti izumrle fuzulinide, rugozni i tabulatni koralji, trilobiti

~ **završava masovnim izumiranjem**

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### **Trijaski život u moru**

~ **obilni mekušci**

- . amoniti
- . razvoj bivalvi i puževa
- . značajni i brahiopodi

~ **ježinci**

- . jak razvoj u prvoj polovici mezozoika

~ **konodonti**

- . ima ih još samo u trijasu

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### **Trijaski život u moru**

~ **alge**

- . zelene alge
- . crvene alge
- . modrozeleno alge

~ **foraminifere**

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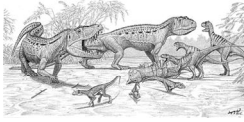
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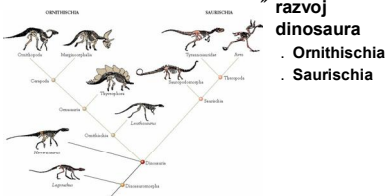
## Trijaski život na kopnu



~ potomci  
dinosauromorfa  
· dinosauri  
· krokodili

Starley, 2005, Freeman

## Trijaski život na kopnu



~ razvoj  
dinosauria  
· Omithischia  
· Saurischia

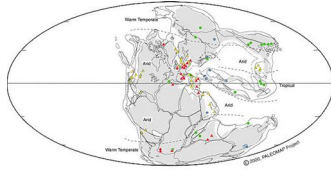
Filogenetski odnosi dinosauria.

Starley, 2005, Freeman

## Klima

~ ogroman kontinent  
· ocean imao slab utjecaj  
· snažne sezonske oscilacije

### Klima



Donji trijas

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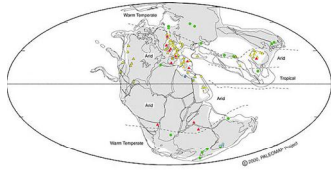
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### Klima



Srednji trijas

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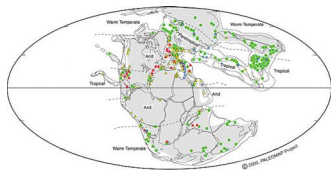
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### Klima



Gornji trijas

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## Europa

- . donji g. trijas (karnik): šejlovi i pješčenjac; vapnenci ("halštatski facijes")
- . srednji g. trijas (norik): plitkovodni vapnenci (Dachstein) i dolomiti (Hauptdolomit)
- . gornji g. trijas (ret): vapnenci i lapori; klastiti

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## Europa

### Južne Alpe

- . donji d. trijas (sajske naslage):
- . gornji d. trijas (kampske naslage):
- . donji sr. trijas (anizik):
  - podjela na tri zone:
    - » Gracilis-zona
    - » Decurtata-zona
    - » Trinodosus-zona
- . gornji sr. trijas (ladinik):
  - podjela na dvije zone:
    - » Reitzl-zona
    - » Lommeli-zona

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## Europa

- . donji g. trijas (karnik):
- . srednji i gornji g. trijas (norik, ret):

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## Masovno izumiranje

- ~ izumrlo oko polovice morski rodova
- ~ plakodonti i konodonti izumrli u potpunosti
- ~ izumrle mnoge bivalve, amoniti, plesiosauri i ichtyosauri
- ~ na kopnu preživjelo samo nekoliko vrsta terapsida i velikih vodozemaca
- ~ dinosauri preživjeli u velikom broju

