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# الزلازل وتكتونية الأطباق

## (Earthquakes and Plate Tectonics)

واثق غازي

/ /

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تمهيد:

ما هو الزلزال؟

(Primary

.(Surface waves)

(Secondary Waves)

waves)

نظرية الارتداد المرن (Elastic Rebounding Theory):

(Reid,--

.(Folding)

( )

.(Potential Energy)

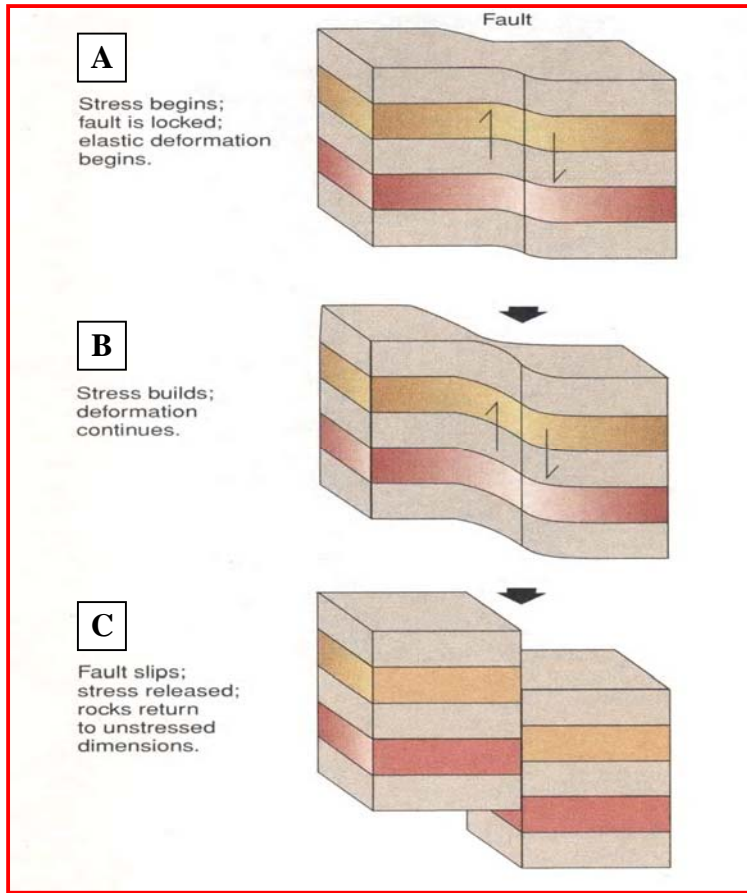
( )

.( )

(Epicenter)

.( )

.(Focus)



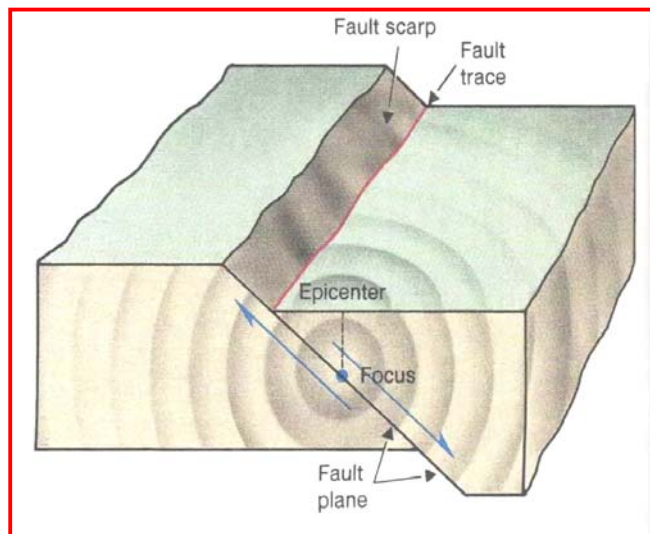
(A) .

:( )

(C) .

(B) .

.(Montgomery,1997)



(Epicenter)

(Focus)

:( )

.(Montgomery,1997)

## أعماق البؤر الزلزالية:

- :  
:(Shallow-Focus Earthquakes) ( )  
.( - )  
:(Intermediate-Focus Earthquakes) ( )  
.( - )  
:(Deep-Focus Earthquakes) ( )  
.( - )

## الزلازل وحافات الأطباق:

- :  
:(Earthquakes In Divergent Boundaries) :  
(Oceanic Rift Zone)  
(Continental Rift Zone)  
(Mid-oceanic Ridges) : ( )  
(Drift Zones) : ( )  
(Listeric Faults)  
:(Earthquakes In Convergent Boundaries) :  
(Collision Zone) (Subduction Zone)  
:(Subduction Zone) ( )  
(Epicenters)  
(15°-75°)

**(Benioff Zone)**

( )

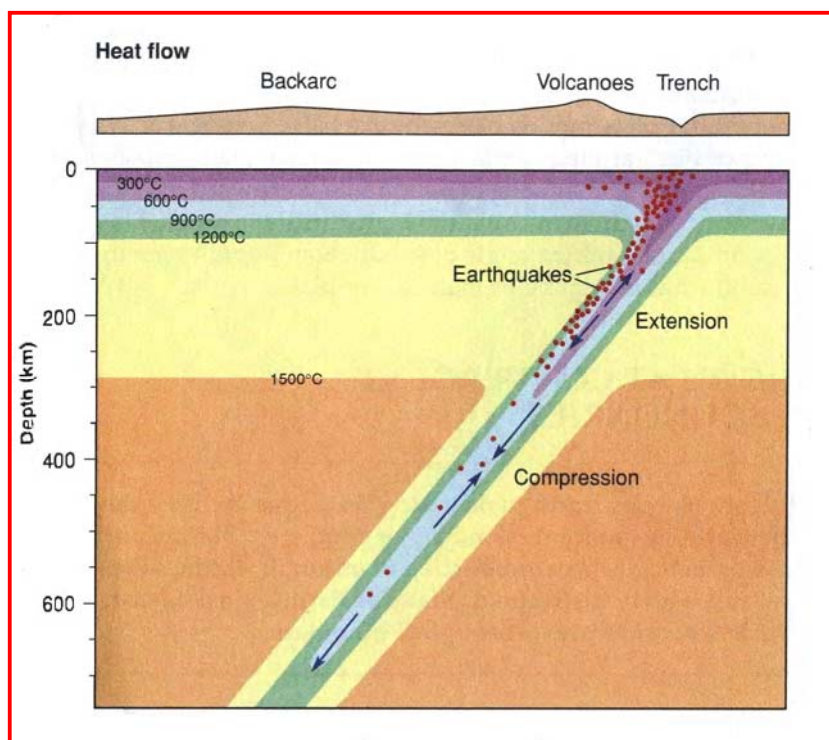
( )

( )

( )

( )

( Toksoz,1975)



:( )

**(Extension Focus Earthquake)**

**.(Hamblin and Christiansen, 1998) (Compression Focus Earthquake)**

**(Normal Faults)**

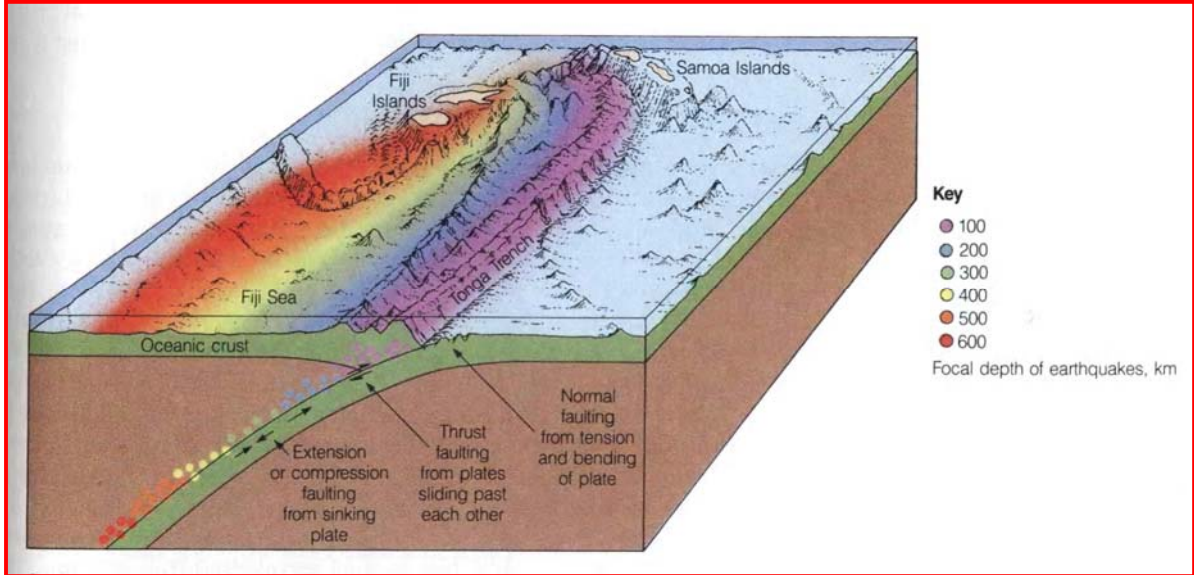
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**(Thrust or Reverse Faults)**

: ( )

: ( )



:( )

.(Hamblin and Christiansen, 1998)

:(Collision Zone) ( )

) ( )

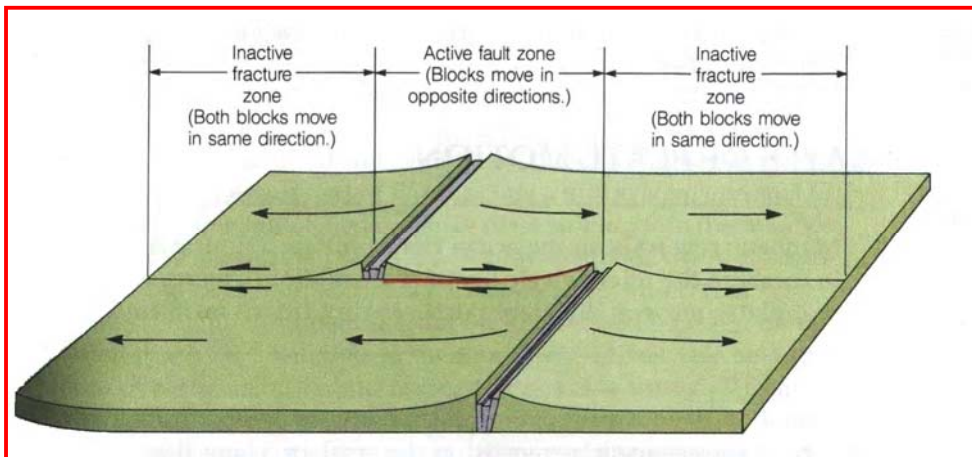
.( ) ( )

:(Earthquakes In Transform Boundaries) :

:(Oceanic Transform Faults) ( )

(Active Fracture or Fault Zones)

.(Inactive Fracture zones)



:( )

:(Continental Transform Faults)

( )

(San Andreas Fault)

(Dead Sea Fault)

(Anatolian Fault)

المصادر:

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1. Duxbury, Alyn C., and Alison B. Duxbury, 1997: (An Introduction to the world's Oceans). Wm. C. Brown Publishers, Fifth Edition, P.504.
2. Hamblin, W.K., Christiansen E.H., and 1998: (Earth's Dynamic Systems). Prentice Hall, New Jersey, Eighth Edition, P.739.
3. Montgomery, C.W., 1997: (Fundamentals of Geology). Wm. C. Brown Publishers, Third Edition, P. 411.



