
المغناطيسية القديمة

Paleomagnetism

واثق غازي

/ /

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تمهيد:

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المغناطيسية الأرضية:

:(Origin of Earth Magnetism)

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(Dynamo Theory)

(Elsasser and Bullard)

(Magnetic Field)

(%)

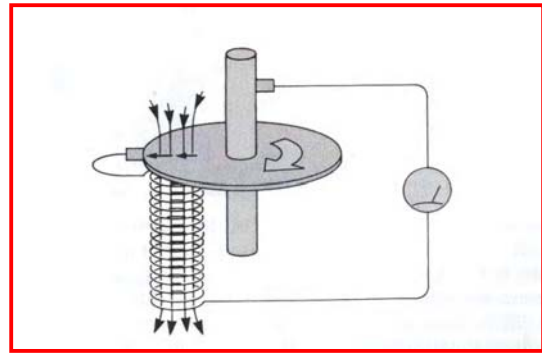
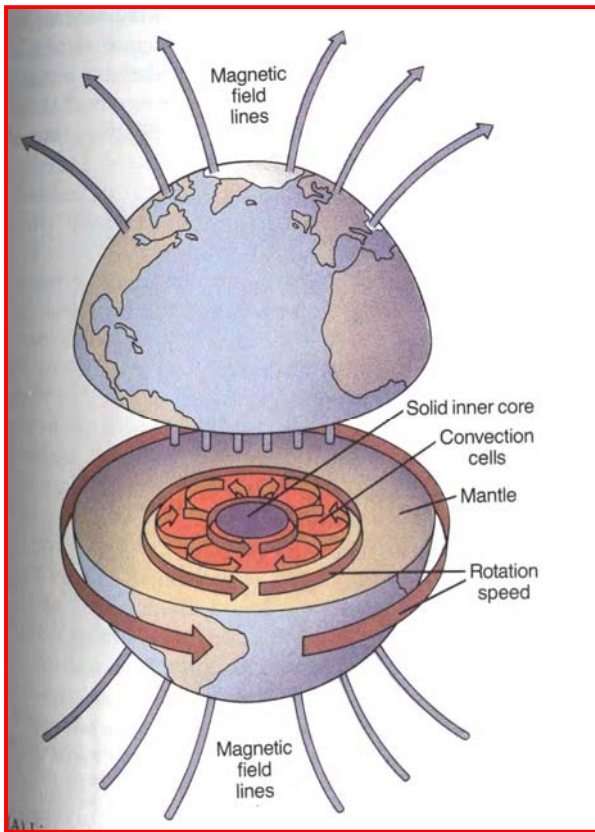
(Thermal Convection currents)

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(Ionosphere)

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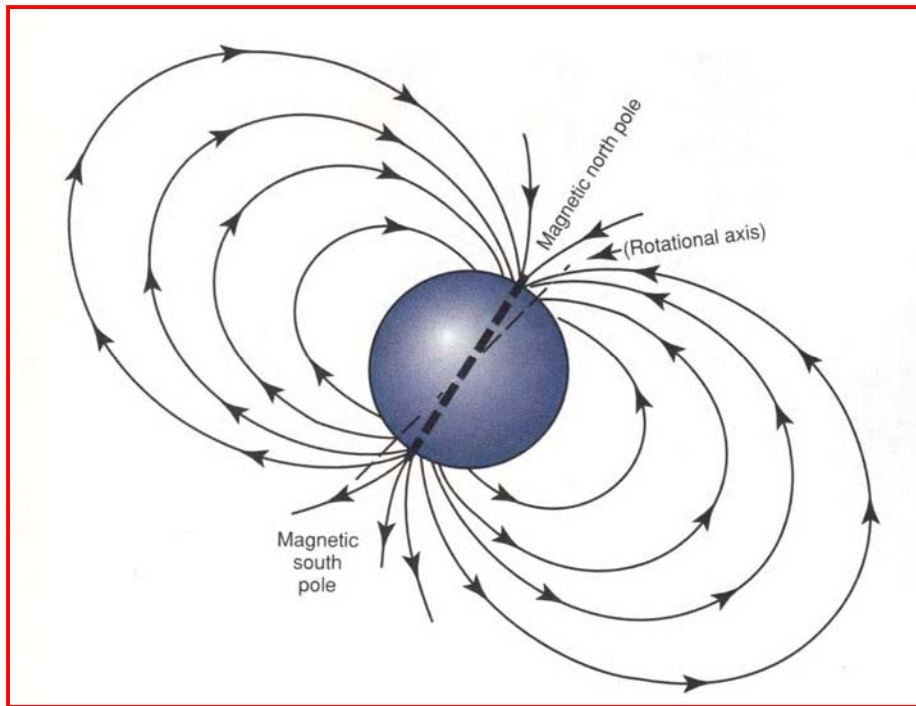
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.(Hamblin and Christiansen,1998)

:(Geomagnetic Field)

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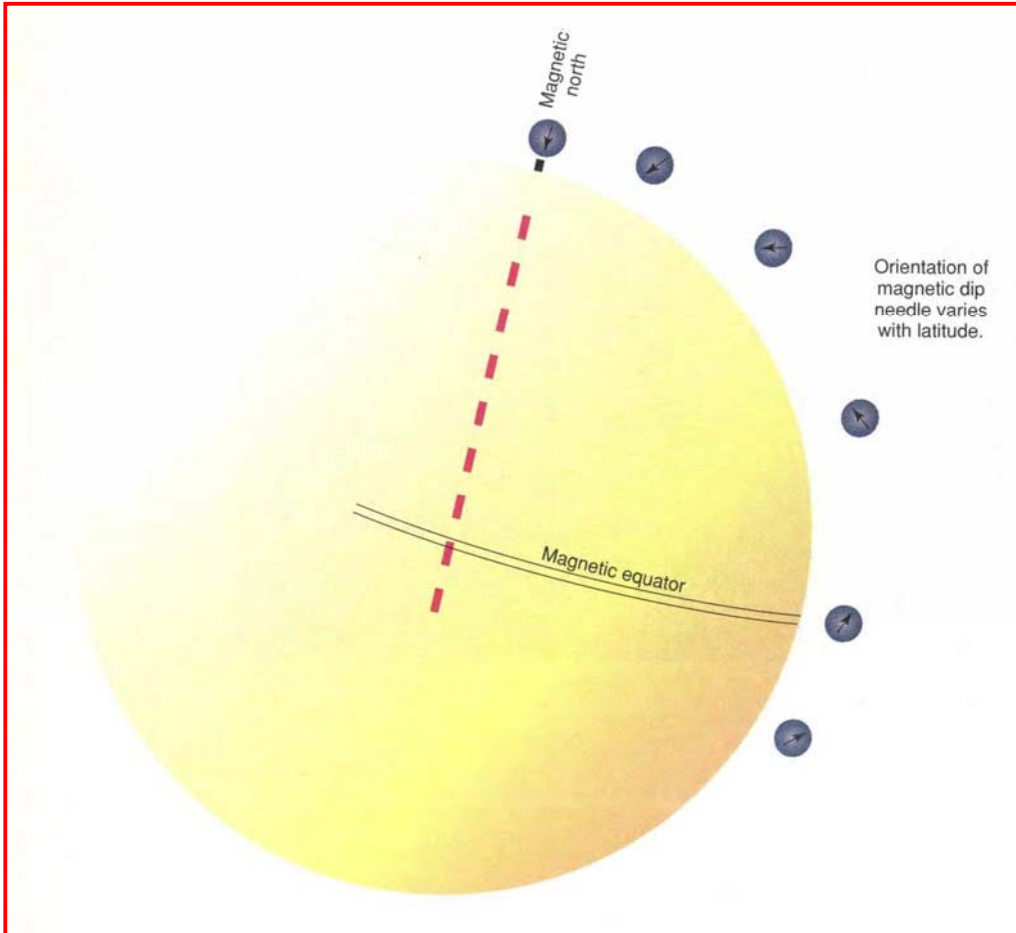


.(Montgomery,1997) ()

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:
 (Magnetic Dip) (Inclination) ()
 (°) (°)

(L) (I) $(\tan I = 2 \tan L)$:
 .()



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.(Montgomery,1997)

(Declination) ()

) (

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مغناطيسية المعادن والصخور:

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(Induced Magnetism) ()

(Remnant Magnetism) ()

(NRM)

(Kongsberg Ratio)

(F)

(Q)

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(Curie Point)

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() :

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(/)

التجوال الظاهري للقطب (Apparent Polar Wandering):

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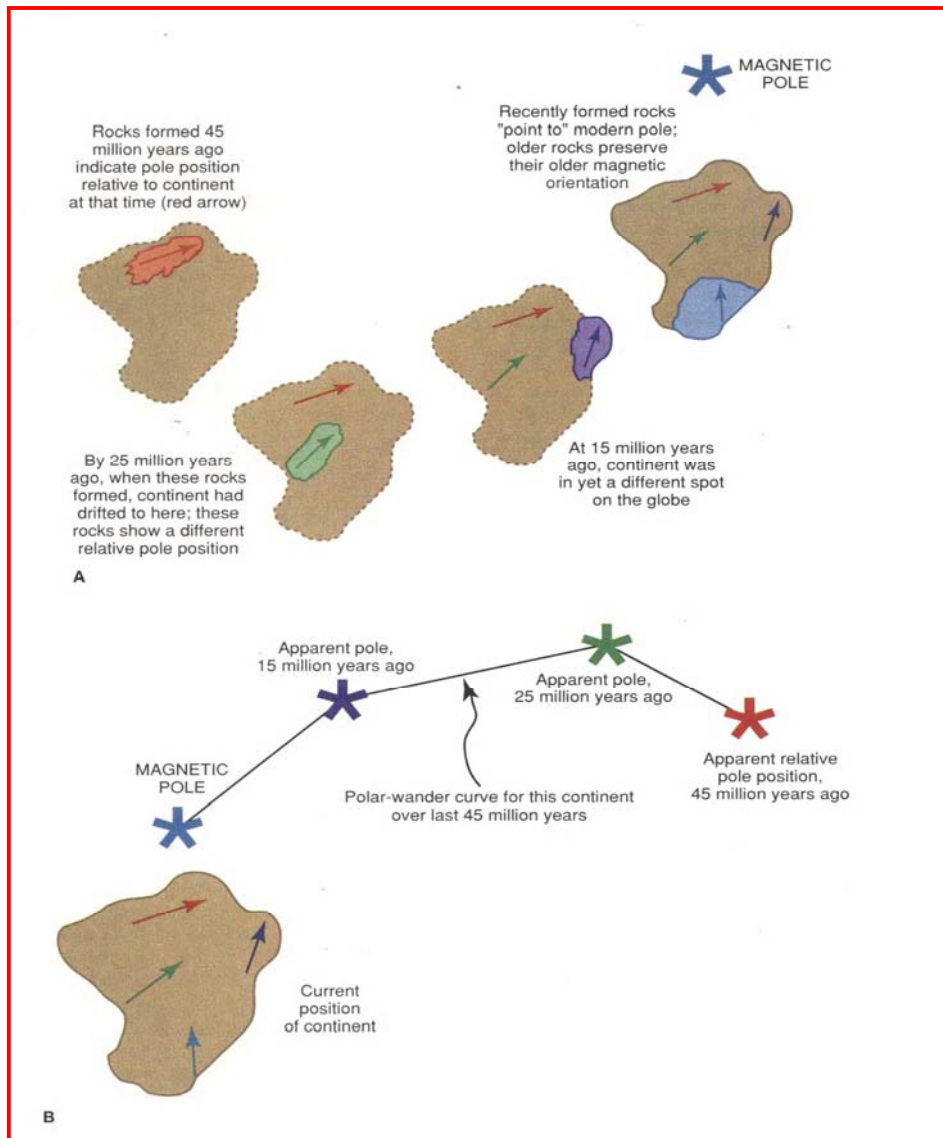
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(°)

(°)

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(A) .

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(B)

.(Montgomery,1997)

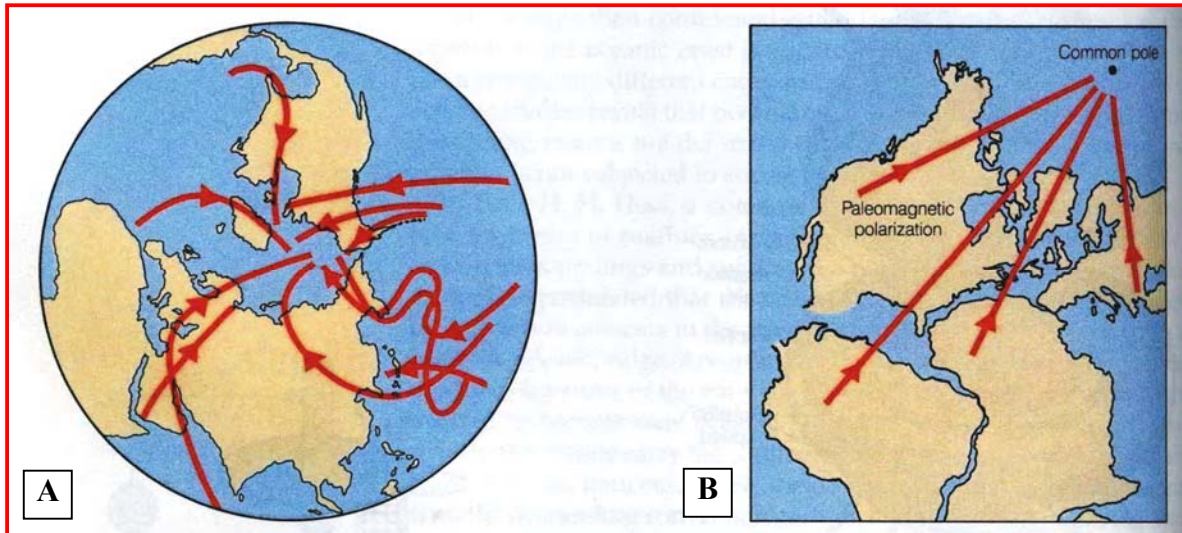
(°)

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(A)

()

(B)



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(B)

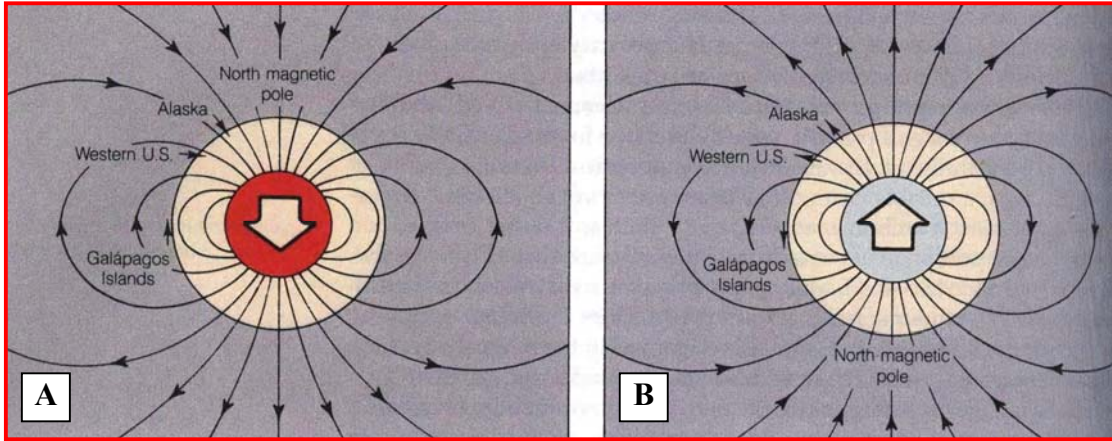
(A)

(Hamblin and Christiansen, 1998)

الانقلابات المغناطيسية (Magnetic Reversals):

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(B) .(Normal Polarity)

(A) .

.(Hamblin and Christiansen,1998) (Reverse Polarity)

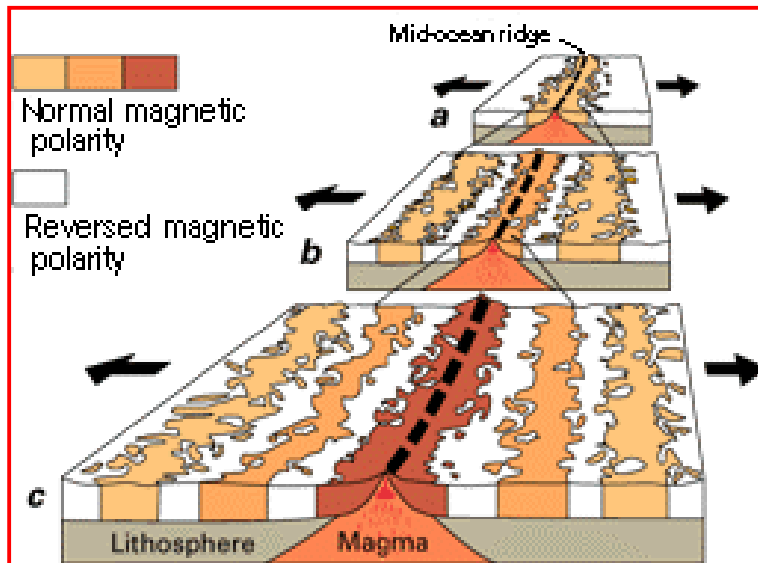
(Arthur Raff)

(Ronald Masson)

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(Vector Vacquier)

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.(USGS)

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(Vine)

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(Matthews)

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() () ()
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المصادر:

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1. Hamblin, W.K., Christiansen E.H., and 1998: (Earth's Dynamic Systems). Prentice Hall, New Jersey, Eighth Edition, P.739.
2. Montgomery, C.W., 1997: (Fundamentals of Geology). Wm. C. Brown Publishers, Third Edition, P. 411.