

() ()

(/ / : / / :)

% /

%

;

o / o /

o / o /

Lewis &) / (Dry Seiving)

(McConchie, 1994

Blair & McPherson ()

...

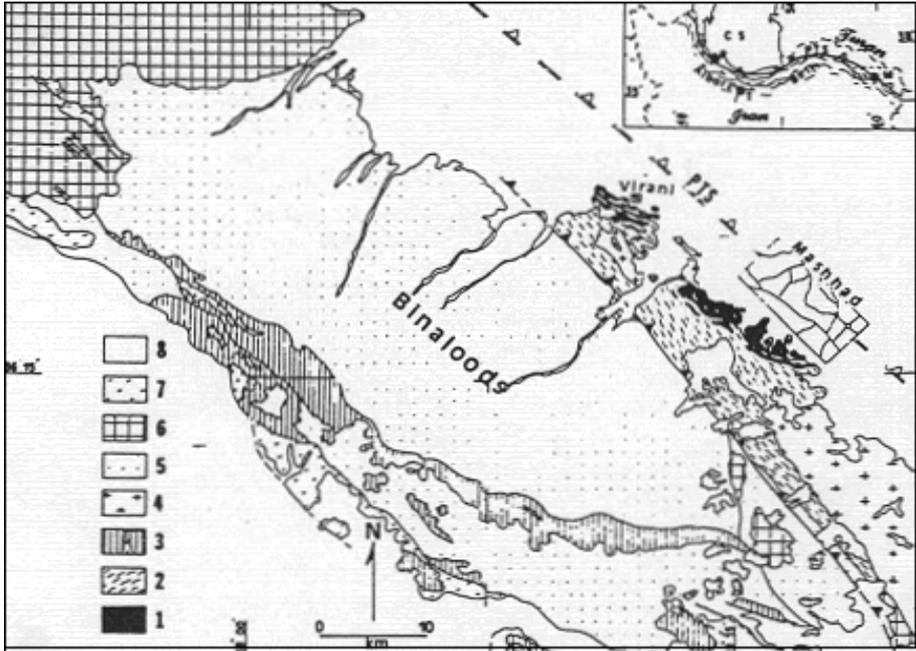
()

()

.() (Alavi, 1991)

.(Alavi,1979, 1991)

(Suture Zone)



()

() T R M CS PTS

(Watershed)

()

()



()

()

:L

:A

:R) $R=A/L^2$
(Km

:P_c Km
/

:P C_c=P/P_c)

(

/

/

(Drainage Density)

(A)

(L)

/

/

Dendritic)

(Pattern

.& Campball, 1993) (Bloom,1991; Twidale
(Kripich, 1940)

$$T_c = 0.0003L^{0.77} * S^{-0.385}$$

L

T_c

S

)

...

(

/ / /
()

.(.)

		(Km)	(Km)	(Km)	(Km ²)	
/	/	/		/		
/	/	/		/		
/	/	/	/	/		
/	/	/	/			

(Erosional Catchments)

.(Leeder,1996)

(Sedimentary Basins)

(Meybeck, 1976)

()

()

)

(

Schumm(,)

Twidale &
(Consequent Streams)

(Campbell (1993
()



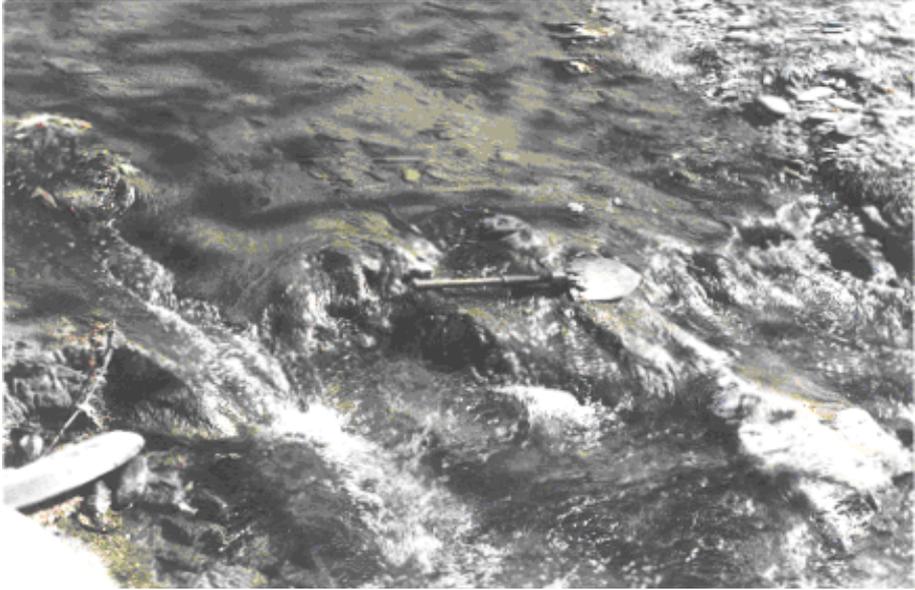
V

-()

(Consequent Stream)

V

.()



)

(

.(

()

.(Folk, 1980)

(Middleton & Southard, 1978)

()

()

()

(Steidtmann, 1982)

(Turbidity)

Blair & () ()

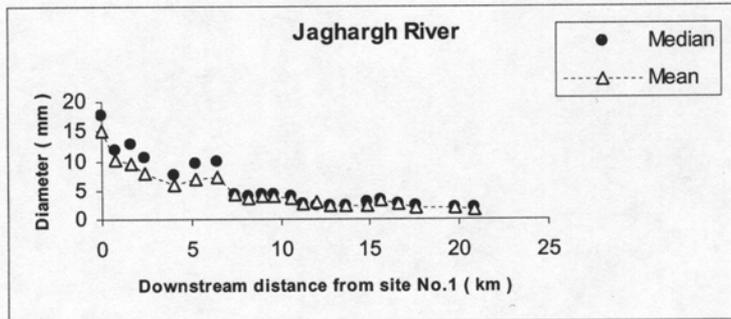
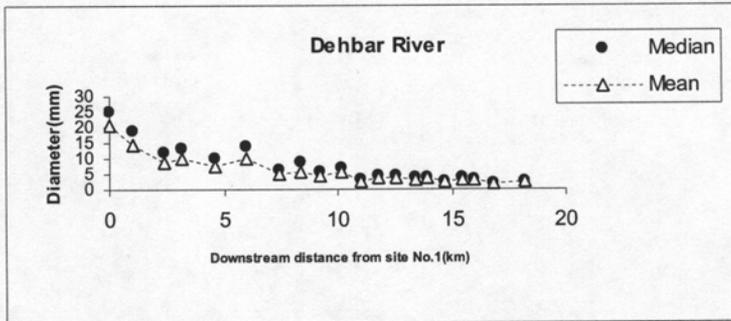
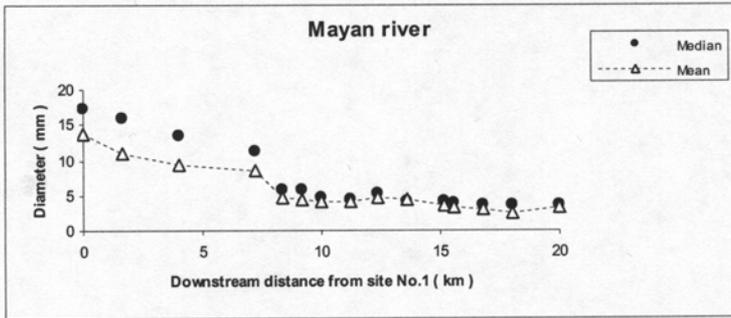
G

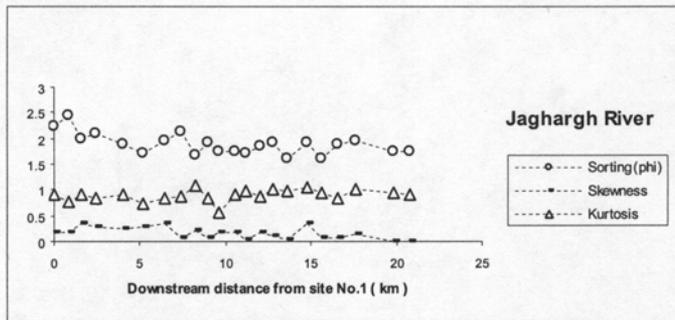
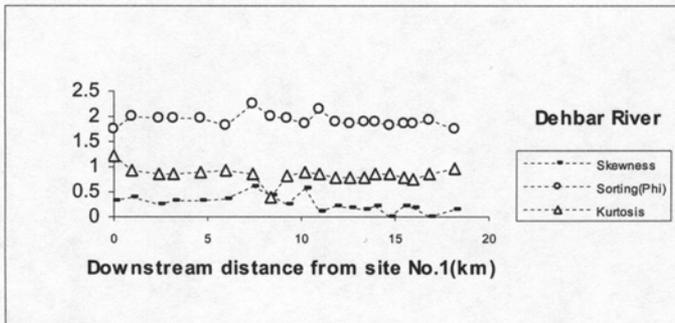
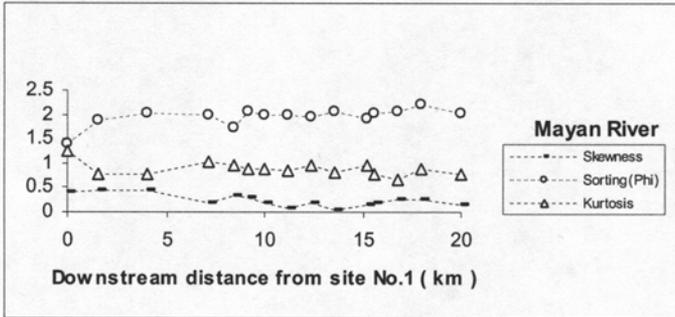
SG

(SG)

McPherson

()





() ()
 ()

...

(Rice, 1999)

(Sedimentary Link Length)

(Tributaries)

(Rice, 1999; Hoey & Bluck, 1999)

(Lateral Sediment Sources)

(Rice, 1998).Church (1999)

()

(Long - Rang Sorting)

(Selective Transport)

(Hydraulic Sorting)

(Abrasion)

(Seal and paola, 1995)

)

(

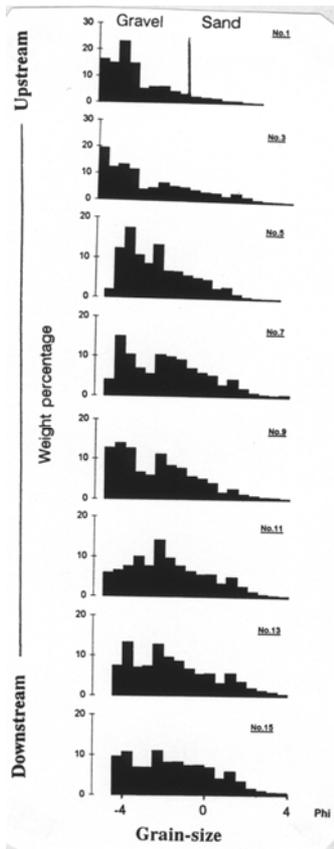
(Surian, 2002)

:

:

(

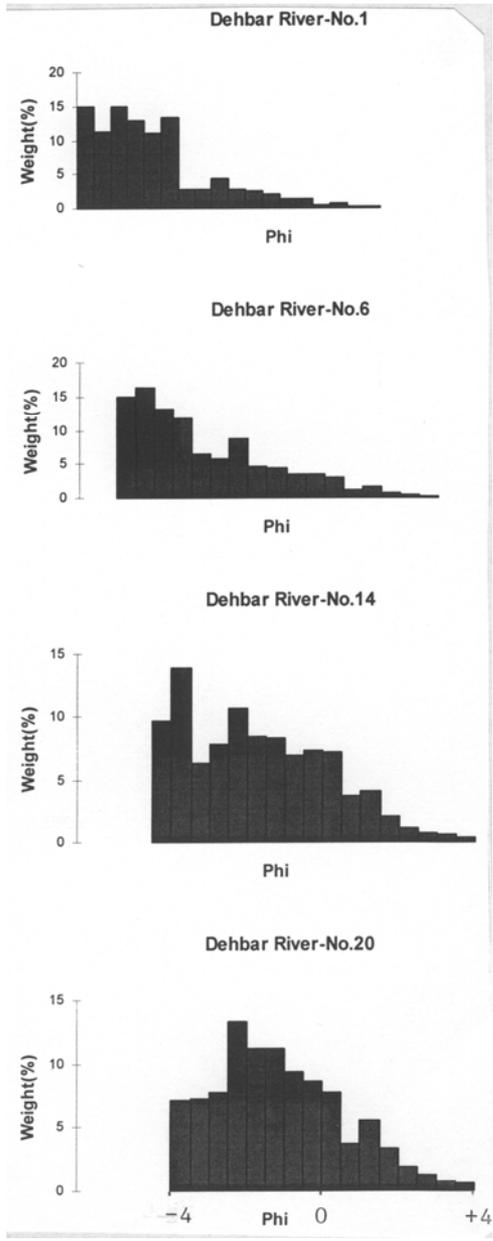
(Ferguson et al., 1996)



()

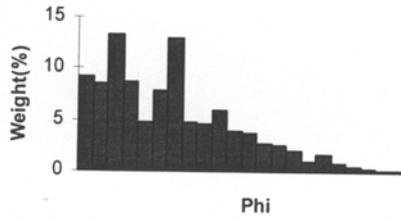
()

...

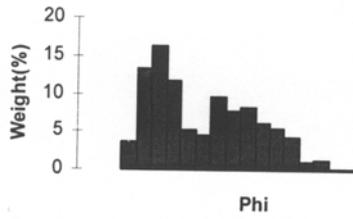


()

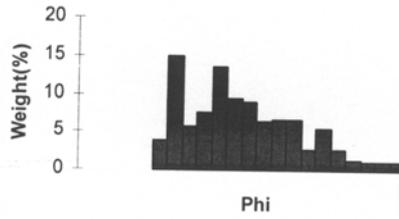
Jaghargh River-No.1



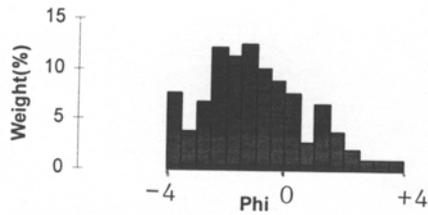
Jaghargh River-No.6



Jaghargh River-No.14



Jaghargh River-No.20



()

...

() :

(Krumbein, 1937)

$$D = D_0 \cdot e^{-\alpha x}$$

:D

x=0

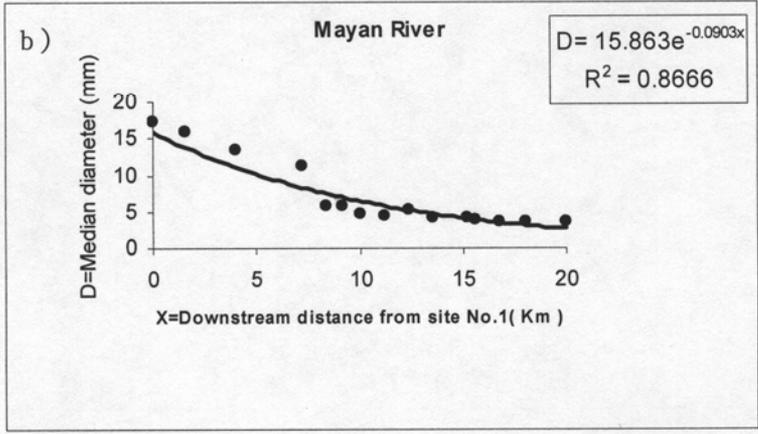
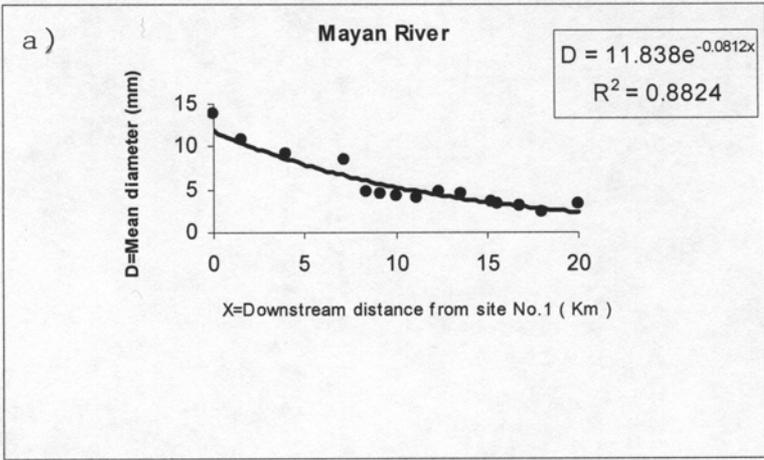
:D₀

(Size- Diminution Coefficient)

:α

R² Do

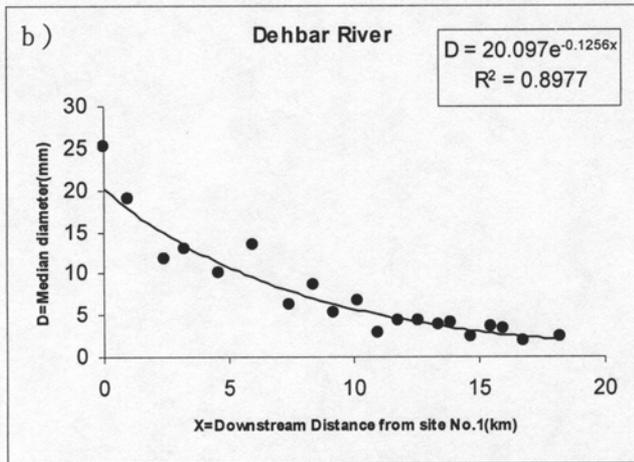
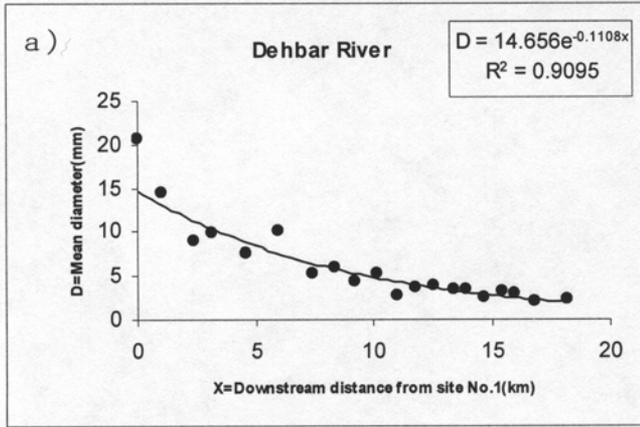
() ()



(b)

(a)

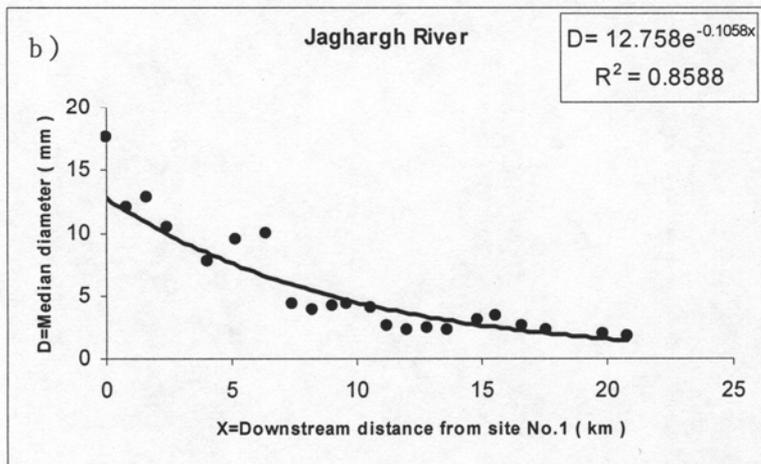
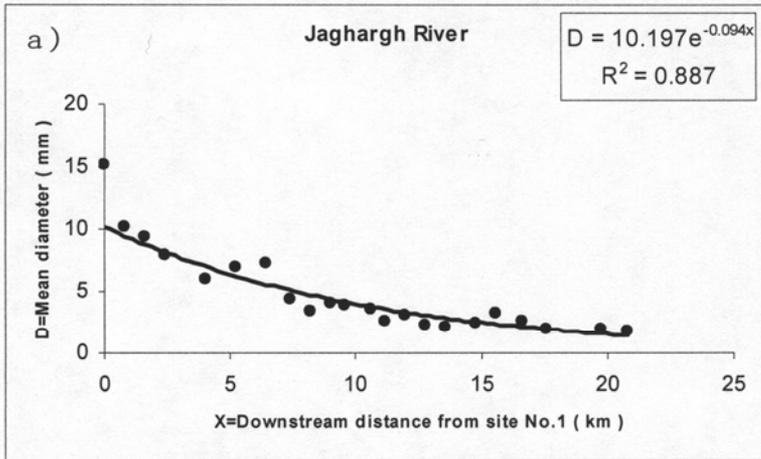
()



(b)

(a)

()



(b)

(a)

()

...

R^2 Do ()

	(M_c)			(M_d)		
	$D_c(\text{mm})$	α (Km)	R^2	$D_c(\text{mm})$	α (Km)	R^2
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

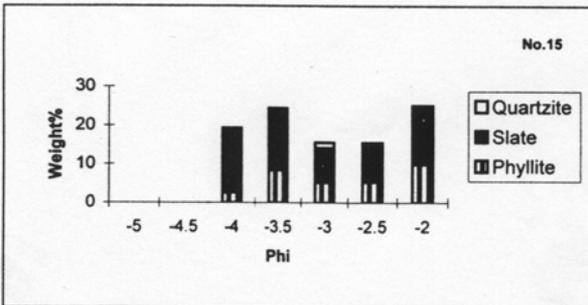
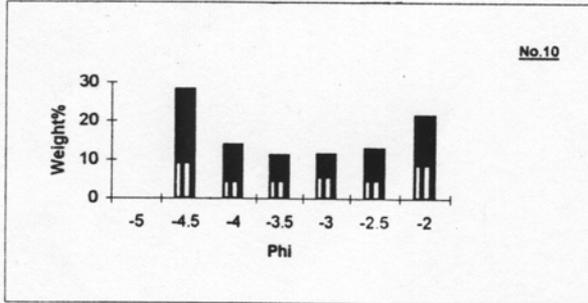
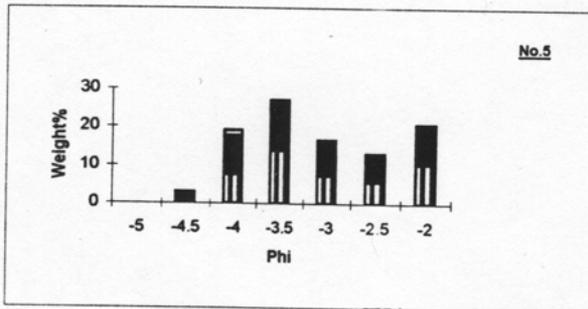
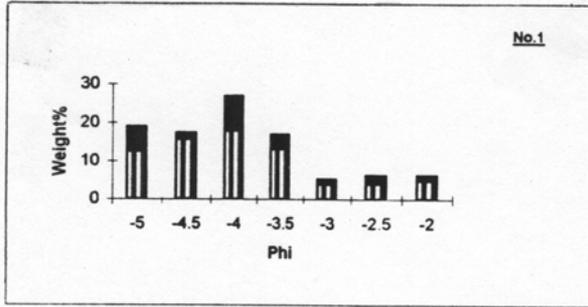
: (

.()

/

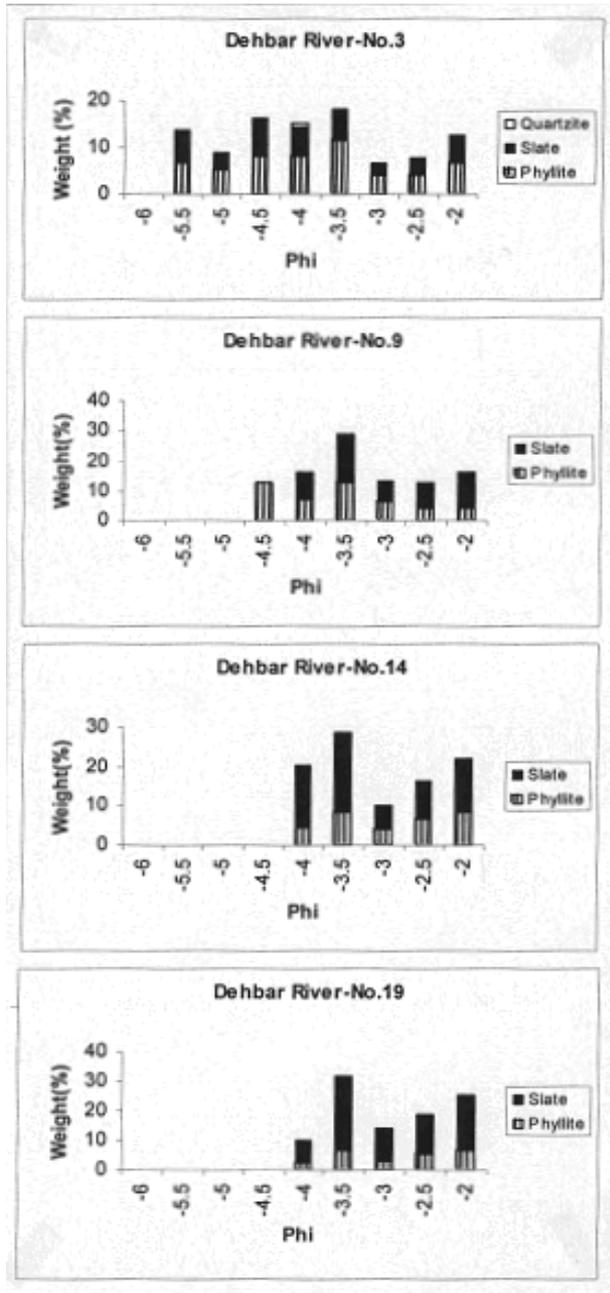
.()

()



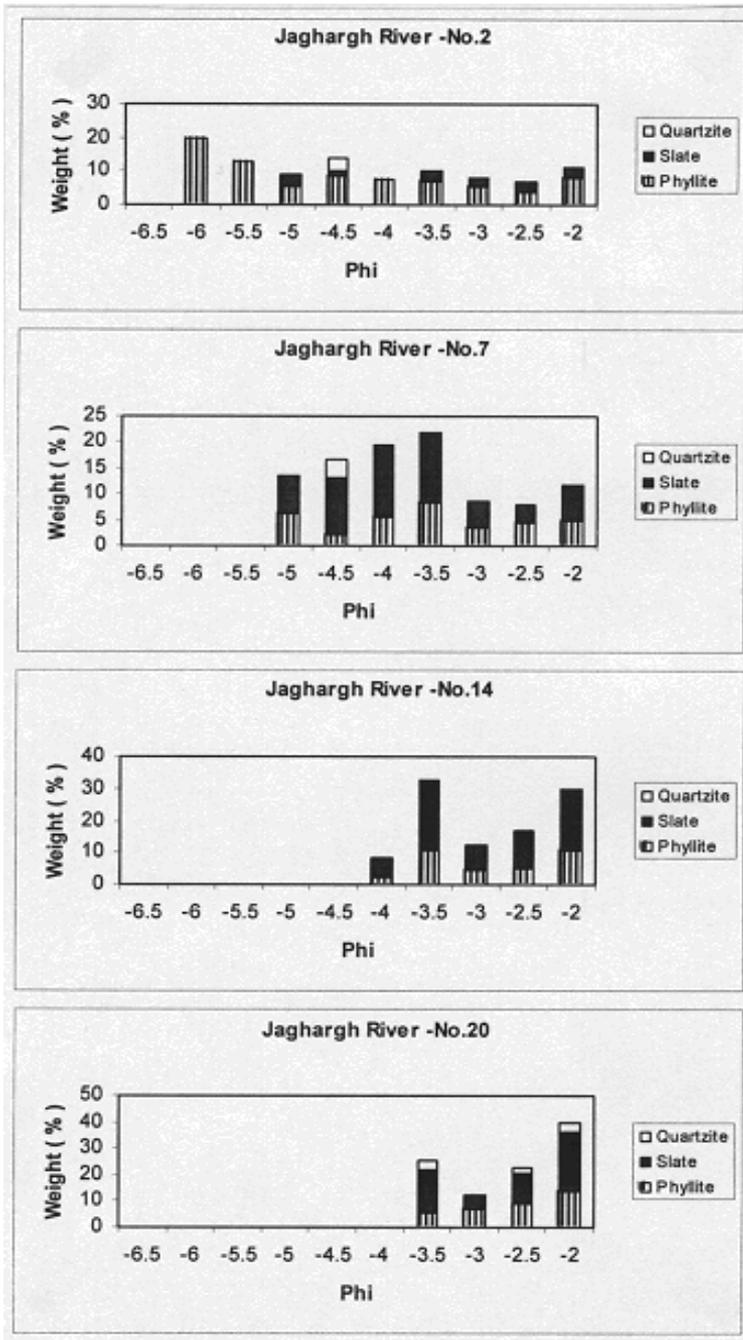
(mm4)

()



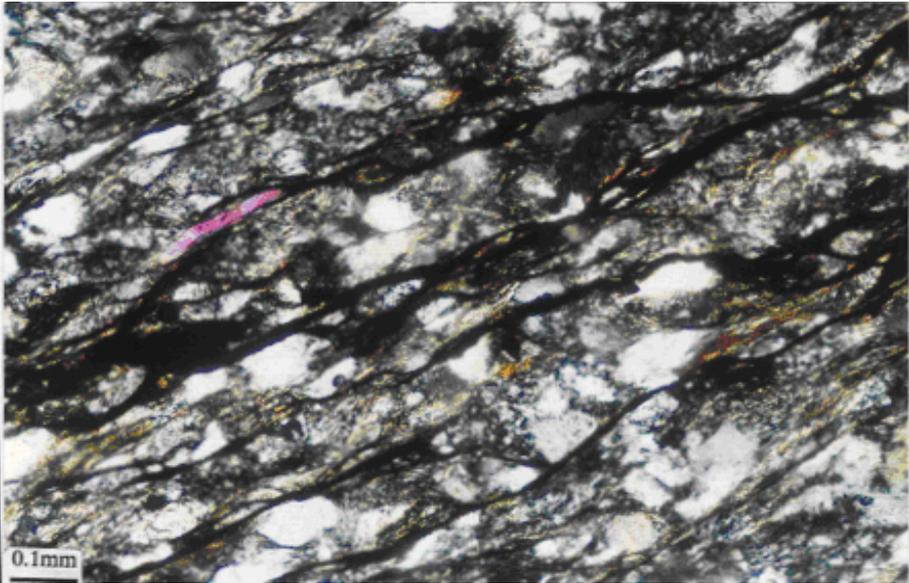
(mm4)

()



(mm4)

()



(chipping)

()

(xpl)

(Krumbein 1937)

(Bladed)

gr/cm³ 2.7

(Grinding)

(Splitting)

(Chipping)

()

Miall

(Sediment Concentration)

(Condition of Flow)

(Miall,1996)

FL

()



F1 ()

SP

St

Sh

(Harms et al. 1982)

Gmm

()

Gh

(Imbrication)

(Lag deposit)



()

Gmm ()

...

() () ()

%

% /

Reference

Alavi, M. (1979) *The virani ophiolite complex and surrounding rocks*, Geol. Rudsch, **68(1)**, 334-341.

Alavi, M. (1991) *Sedimentary and structural characteristics of the Paleotethys remnants in northeastern Iran*, Geol. Soc. Am. Bull., **103**, 983-992.

Blair, T.C., and McPheson, J.G. (1999) *Grain size textural classification of coarse sedimentary particles*, Journal of sedimentary Research, **69**, 6-19.

- Bloom, A.L. (1991) *Geomorphology: A systematic Analysis of late cenozoic Landforms*, (2nd edition), Prentic-Hall, Englewood cliffs, NJ., 532 p.
- Church, M. (1999) *Sediment Sorting in gravel-bed Rivers*, Journal of sedimentary Research, V. A69, p. 20.
- Ferguson, R., Hoey, T., Wathen, S., and werrity, A. (1996) *Field evidence for rapid downstream fining of river gravels through selective transport*, Geology, 24(2), 179-182.
- Folk, R.L. (1980) *Petrology of sedimentary Rocks*: Hemphill publishing co., Austin, Texas, 182 p.
- Harms, J.C., Southard, J.B., and walker, R.G. (1982) *Structures and sequences in clastic Rock*: Soc. Econ. Paleont, Mineral. Short course No. 9, Calgary.
- Hoey, T.B., and Bluk, B.J. (1999) *Identifying the contorls on downstream fining gravels*: Journal of Sedimentary Research, Section A, **69**, 40-50.
- Kripich, Z.P. (1940) *Time of concentration of small agricultural watersheds*, civil Eng., **10**, pp. 360.
- Krumbein, W.G. (1937) *Sediments and exponential curves*: Journal of Geology, **45**, 577-601.
- Leeder, M.R. (1996) *Sedimentary basins: Tectonic recorders of sediment discharge from drainage catchments*: Earth Surface Processes and Landforms , **22**, 229-237.
- Lewis, D., W., and McConchie, D. (1994) *Analytical Sedimentology*, chapman & hall, London, 197 p.
- Meybeck, K.M. (1976) *Total mineral dissolved transport by world Major rivers*, In: Knigton, D. (1984) *Fluvial and processes*: Edward Arnold Ltd, 218p.
- Miall, A.D. (1996), *The Geology of Fluvial Deposits– Sedimentary Facies, Basin Analysis, and Petroleum Geology*, Springer-Verlag, Berlin, 582p.
- Miall, A.D. (2000) *Principle of Sedimentary Basin Analysis*, Springer-verlag, 668 p.

...

Middleton. G.V., and Southard, J.B. (1978) *Mechanics of Sediment Movement*: Tulsa. Oklahoma, Soc. Econ. Paleont. Mineral. Short course No.3.

Rice, S., (1998) *Which tributaries disrupt downstream fining along gravel-bed river*, *Geomorphology*, **22**, 39-56.

Rice, S. (1999) *The nature and controls on downstream fining within sedimentary links*, *Journal sedimentary Research*, **A69**, 32-39.

Schumm, S.A. (1981) *Evolution and response of the fluvial system, Sedimentologic implication*: Society of Economic Paleontologists and mineralogist, special publication, **31**, 19-29.

Schumm, S.A. (1985) *Explanation and extrapolation in geomorphology, seven reasons for geologic uncertainty*: Geomorphological, Japanese Union Transactions, **6**, 1-18.

Seal, R., Paola, C. (1995) *Observations of downstream fining on the North fork Toutle River near Mount st. Helens*, Washington. Water Resour. Res. **31(5)**, 1409-1419.

Steidtmann, J.R. (1982) *Size-density sorting of sand-size spheres during deposition from bedload transport and implication concerning hydraulic equivalence*, *sedimentology*, **29**, 877-883.

Surian, N. (2002) *Downstream Variation in grain size along an Alpine river, analysis of controls and processes*, *Geomorphology*, **43**, 137-149.

Twidale, C.R., and Campbell, E.M. (1993) *Australian Landforms*: Gleneables Publishing Adelaide SA, 560 p.

()

-.[]

()