REFERENCES

Adams, J., Maslin, M., and Thomas, E. (1999) Sudden climate transitions during the Quaternary. Progress in Physical Geography, 23, 1-36

Agrawal, D. P. and Kusumgar, S (1969). Tata Institute Radiocarbon date list 6. Radiocarbon 2, 191.

Agrawal, D. P., Dodia, R., Kotlia, B. S., Rajdan, H., and Sahni, S. (1989). The Plio-Pleistocene geologic and climate record of the Kashmir valley, Palaeogeography, Palaeoclimatology, Palaeocology, 73, 266-286.

Agarwal, R. P., Dotiwala, S., Mitra, D. S. and Bhoj, R. (1996). The palaeodelta of the "Proto" Vatrak and "Proto" Mahi rivers of northeastern Gujarat, India: A remote sensing interpretation Geomorphology, 15, 67-78.

Ahmed, F. (1986). Geological evidence bearing on the origin of the Rajasthan desert (India). Procceedings of Indian National Science Academy, 52, 1285-1306.

Aitken, M. J. (1985). Thermoluminescence Dating. Academic Press. London, 259p.

Aitken, M.J. (1998). Introduction to Optical Dating. Oxford Univ. Press, Oxford. 267p.

Allchin, B. and Goudie, A. (1971). Dune, aridity and early man in Gujarat, Western India. Man, 6, 248-265.

Allchin, B., Goudie, A. and Hegde, K. (1978). The Prehistory and Palaeogeography of the Great Indian Desert. Academic Press, London, 370p.

Alley, R. (2000). The Younger Dryas cold interval as viewed from central Greenland. Quaternary Science Reviews, 19, 213-226.

Anderson, D. M. and Prell, W. L. (1993). A 300 kyr record of the upwelling off Oman during the Late Quaternary: evidence of the Asian southwest monsoon. Paleoceanography, 8, 193-208.

Andrews, J. E., Singhvi, A. K., Kailath, A. J., Khun, R., Dennis, P. F., Tandon, S.K. and Dhir, R. P. (1998). Do stable isotope data from calcrete record Late Pleistocene monsoonal climate variation in the Thar Desert of India? Quaternary Research, 50, 240-251.

Armijo, R. P., Tapponier, J., Mercier, L. and Tangling, H. (1986). Quaternary extension in Field observations and tectonic implications, Journal of Geophysical Research, 91, 13803-13872.

Atkinson, G. (1984). Simple computation of liquefaction probability for seismic hazard applications. Earthquake Spectra, 1, 107-123.

Barry, R. G. (1992). Mountain, weather and climate. Routledge, London, 402 p.

Beaufort, L. (1996). Dynamics of the monsoon in the equatorial Indian ocean over the last 260,000 years. Quaternary International, 31, 13-18.

Benn, D. I. and Owen, L A. (1998). The role of the Indian summer monsoon and the mid-lattitude westerlies in Himalayan glaciation: review and speculative discussion Journal of Geological Society of London, 155, 353-363.

Benson, L V., Currey, D. R. and Dorn, K. R. (1990). Chronology of expansion and contraction of four Great Basin system during the past 35,000 years. Palaeogeography, Palaeoclimatology, Palaeoecology, 78, 241-286.

Benson, L V , May, H.M., Antwieler, R. C. and Brinton, T. I (1998). Continuous lake-sediment record of glaciation in Siera Nevada between 52,600 and 12,500 ^{14}C yr B.P. Quaternary Research, 50, 113-127.

Berger, A. (1978). Lomg-term variations of caloric insolation rsulting from Earth's orbital elements. Quaternary Research, 9, 139-167.

Berger, G W. (1985). Thermoluminescence dating applied to a thin winter varve of the late glacial South Thomson silt, south-central British Columbia. Canadian Journal of Earth Science, 2, 1736-1739.

Berger, G. and Anderson, P. M. (1994). Thermoluminescence dating of an Arctic lake core from Alaska. Quaternary Geochronology (Quaternary Science Reviews), 13, 497-501.

Bhandari, M. M. (1988). Ecological effect of human activities on the sand-dune eco-system of the Indian desert. Final technical report, submitted to the Department of Environment, Government of India, 147p.

Birchfield, D. L. and Weetrman, J. (1983). Topography, albido-temperature feedback, and climate sensitivity. Science, 219, 284-285.

Biswas, S. K. (1987). Regional tectonic framework, structural evolution of western marginal basins of India. Tectonophysics, 135, 307-327

Bond, G. C., Broecker, W., Johnsen, S., McManus, J., Labeyrie, L., Jouzel, J. and Bonani, G. (1993). Correlations between climate records from North Atlantic sediments and Greenland ice. Nature, 365, 143-147.

Bradley, R. S. (1985). Quaternary Palaeoclimatology, Allen and Unwin, Londn and Boston.

Bradley, R. S. (1999). Palaeoclimatology: reconstructing climate of the Quaternary. Academic press, London, 595p.

Brodzikowski, K. and VanLoon, A.J. (1991). Development in sedimentology, 49, Elsevier, Amerstadam, 669p.

Bryson, R. A. and Swain, A. M. (1981). Holocene variations of monsoon rainfall in Rajasthan. Quaternary Research, 16, 135-145.

Bryson, R. A. (1989). Modelling the NW Indian monsoon for the last 40 000 years. Climate Dynamics, 3, 169-177.

Burbank, D. W. and Johnson, G. D (1982) Intermontane basin development in the past 4 myr in the north-west Himalaya Nature, 298, 432-436

Burns, S. J., Fleitmann, D., Matter, A., Neff, U. and Mangini, A. (2001). Speleothem evidence from Oman for continental pluvial events during interglacial periods. Geology, 29, 623-626.

Burchfiel, B. C. and Royden, L. H. (1985). North-south extension within the convergent Himalayan region. Geology, 13, 219-223.

Burnett, A W. and Schumm, S. A. (1983). Alluvial-River response to neotectonic deformation in Lousiana and Mississippi. Science, 222, 49-50.

Chamyal, L. S., Maurya D. M. and Rachna Raj (2003). Fluvial systems of drylands of Western India: a synthesis of Late Quaternary environmental and tectonic changes. Quaternary International, 104, 69-86

Chappel, J. (1987). Ocean volume changes and the history of sea water. In Devoy, R.J.N. (Ed.), Sea Surface Studies. Clarendon, Oxford, 56-72.

Chauhan, O. S. (2003). Past 20,000 years history of Himalayan aridity: evidence from oxygen isotope record in the Bay of Bengal Current Science, 84, 90-92.

Chawla, S., Dhir, R. P. and Sighvi, A. K. (1992). Thermoluminescence chronology of sand profiles in the Thar desert and their implications. Quaternary Science Review, 11, 25-32

Child, J. K. and Werner, Al. (1999). Evidence for a hardwater radiocarbon dating effect, Wonder lake, Denali National Park and Reserve, Alaska, USA. Geography Physics Quaternary, 53, 407-411.

Claussen, M., Kubatzki., C., Brovkin., V., Ganopolski., A, Hoelzmann., P. and Pachur, H. J. (1999). Simulation of an abrupt change in Sahara vegetation in the mid-Holocene. Geophysical Research Letters, 26, 2037-2040.

Clemens, S., Prell, W., Murray, D., Shimmield, G. and Weedon, G. (1991). Forcing mechanism of the Indian Ocean monsoon. Nature, 353, 720-725.

Coleman, M. and Hodges, K. (1995). Evidence for Tibetan plateau uplift before 14 Myr ago from a new minimum age for east-west extension. Nature, 374, 49-52.

Dahl, S. O. and Nesje, A. (1996). A new approach to calculating Holocene winter precipitation by combining glacier equilibrium line altitude and pine-tree limits: a case study from Hardongerjokulen, Central South Norway. Holocene, 6, 381-398.

Deevey, E. S., Gross, M. S., Hutchinson, G. E. and Kraybill, H. L. (1954). The natural ^{14}C content of material from hard-water lakes. Proceedings of the National Academy of Sciences of the USA, Washington, 40, 285-288.

Derbyshire, E., Shi, Y., Li, J., Li, S., Zheng, B., Li, S. and Wang, J. (1991). Quaternary glaciation of Tibet: the geological evidence. Quaternary Science Research, 10, 485-510.

Dhir, R. P. (1977). Soil degradation due to over exploitative human effort. Annals of Arid Zone, 16, 321-330.

Duller, G. A. (1994). Luminescence dating of sediments using single aliquot-new procedures. Quaternary Geochronology, 13, 149-156.

Duller, G. A (1996). Recent development in luminescence dating of Quaternary sediments. Progress in Physical Geography, 20, 127-145.

Duplessy, J. C., (1982). Glacial to interglacial contrast in the northern Indian Ocean. Nature, 295, 494-498

Edward, M. A. and Harrison, T. M. (1997). When did the roof collapse? Late Miocene north-south extension in the high Himalaya revealed by the Th-Pb monazite dating of the Khula Kangri granite. Geology, 25, 543-546.

Emeis, K. C., Anderson, D. M., Doose, H., Kroon, D. and Bull, S. (1995). Sea-surface temperature and the history of monsoon upwelling in the Northwest Arabain Sea during the last 500, 000 years. Quaternary Research, 43, 355-361.

Enzel, Y., Ely, L. L., Mishra, S., Ramesh, R., Amit, R , Lazar, B., Rajaguru, S N., Baker, V. R. and Sandler, A. (1999). High-resolution Holocene environmental changes in the Thar desert, Northwestern India. Science, 284, 125-128.

Fang, X. M., Ono, Y., Fukusawa, H., Tian, P. B., Li, J J , Hong, G.D., Oi, K., Tsukamoto, S., Torii, M. and Mishima, T. (1999). Asian summer monsoon instability during the past 60,000 years· magnetic susceptibility and pedogenic evidence from the western Chinese Loess Plateau. Earth Planetary Science Letters, 168, 219-232.

Felix, C. and Singhvi, A. K. (1997). Study of non-linear luminescence dose growth curves for the estimation of palaeodose in luminescence dating: results of Monte-Carlo simulation. Radiation Measurements. 27, 599-609.

Fisk, H. N. (1944). Geological investigations of the alluvial valley of the lower Mississippi River: Vicksburg, Mississippi River Commission, U.S. Army Corps of Engineers, 78p.

Franklin, A. D., Prescott, J. R. and Scholefield, B. (1995). The mechanism of thermoluminescence in an Australian sedimentary quartz. Journal of Luminescence, 63, 317-326.

Fuller, I. C., Wintle, A. G. and Duller, G. A. T. (1994). Test of the partial bleach methodology as applied to the infera-red stimulated luminescence of an alluvial sediment from the Danube. Quaternary Geochronology. (Quaternary Science Reviews), 13, 539-543.

Glennie, K. W. (1999). Dune as indicator of climate change. In: Singhvi, A., Derbyshire, E., (Eds.), Palaeoenvironmental reconstruction in arid lands. Balkema, Rotterdam, pp. 153-174.

Gansser, A. (1964). Geology of the Himalayas. Interscience publishers, John Wiley & Sons. 279p.

Gasse, F. and Van Campo, E. (1994) Abrupt post-glacial climate events in West Asia and North African monsoon domains. Earth Planetary Science Letters, 126, 435-456.

Geyh, M. A., Schotterer, U. and Grosjean, M (1998). Temporal changes of the ^{14}C reservoir effect in lakes. In proceedings of the 16th International ^{14}C conference. Radiocarbon, 40, 921-931.

Godfrey-Smith, D. I. G. (1988). Opical dating studies of quartz and feldspar sediment extracts. Quaternary Science Reviews, 7, 373-380.

Goodbred Jr. S. and Kuehl, S. A. (2000). Enormous Ganga-Brahmputra sediment discharge during strengthened early Holocene monsoon. Geology, 28, 1083-1086.

Goudie, A., Allchin, B. and Hegde, K T. M. (1973). The former extensions of the Great Indian Sand Desert. Geographical Journal, 139, 243-257.

Goudie, A. S. (1983). Calcrete. In Goudie, A.S. and Pye, K. (Eds.), Chemical Sediments and Geomorphology. Academic Press, London, 93-132.

Graf, W. L (1988). Fluvial process in Dryland Rivers. Springer, Berlin.

Grigg, L. D. and Whitlock, C. (2001). Evidence for millennial-sclae climate change during Marine Isotope Stages 2 and 3 at Little Lake, Western Oregon, U.S.A. Quaternary Research, 56, 10-22.

Gupta, A. K. and Thomas, E. (2003). Initiation of Northern Hemisphere glaciation and strengthening of the northeast Indian monsoon: Ocean Drilling Program Site 758, eastern equatorial Indian Ocean. Geology, 31, 47-50.

Harrison, T. M., Copeland, P., Kidd, W. S. F. and Lovera, O. M. (1995a) Activation of the Nyainqentanghla Shear Zone: Implications for uplift of the southern Tibetan plateau. Tectonics, 14, 658-676.

Harrison, T. M., McKeegan, K. D. and Le Fort, P. (1995b). Detection of inherited monazite in the Manasula leucogranite by $^{208}Pb/^{232}Th$ ion microprobe dating: Crystallization age and tectonic implications. Earth Planetary Science Letters, 133, 271-282.

Harrison, T. M., An, Yin and Ryerson, F. J. (1998). Orographic evolution of the Himalaya and Tibetan Plateau, in: Tectonic boundary conditions for climate reconstruction, (edited by Thomas J. Crowley and Kelvin C. Burke). Oxford monograph on Geology and Geophysics, Oxford Uni. Press. No. 39, 39-72.

Hasnain, S. I. (1999). Himalayan Glaciers: Hydrology and Hydrochemistry. Allied Publishers, New Delhi, 203p.

Hashimi, N. H , Nigam, R., Nair, R. R. and Rajagopalan, G. (1995) Holocene sea level fluctuations on western Indian continental margin: An update. Journal of Geological Society of India, 46, 157-162.

Hassan, M. A. (1990). Scour, fill and burial depth of coarse material in gravel bed streams. Earth Surface Process and Landforms, 15, 341-356.

Heim, A. and Gansser, A. (1939). Central Himalaya: Geological observations of the Swiss expedition of 1936 Denckenberg. Schweiz. Natur. Gess. 73, 1-245.

Hermelin, J.O.R. and Shimmield, G. (1995). Impact of productivity events on the benthic foraminiferal fauna in the Arabian Sea over the last 150,000 years. Paleoceanography, 10, 85-116.

Hodges, K.V., Parrish, R. R., Housh, T. B., Lux, T. R., Burchfiel, B. R., Royden and L. H., Chen, Z. (1992) Simultaneous Miocene extension and shortening in the Himalayan Orogen. Science, 258, 1466-1470,

Hodges, K. V., Bowring, S., Davidek, K., Hawkins, D. and Krol, M (1998). Evidence for rapid displacement on Himalayan normal faults and the importance of tectonic denudation in the evolution of mountain ranges. Geology, 26, 483-486.

Hodges, K. V. (2000). Tectonics of the Himalaya and southern Tibet from two perspectives. Geological Society America Bulletin, 112, 324-350.

Holbrook, J. and Schumm, S. A. (1999). Geomorphic and sedimentary response of rivers to tectonic deformation: a brief review and critique of a tool for recognizing subtle epirogenic deformation in modern and ancient settings. Tectonophysics, 305, 287-306.

Holmes, A. (1972). Principles of Physical Geology. ELBS Publication, London. 504-618 pp.

Holmes, J. A and Street-Perrott, F. A. (1989). The Quaternary Glacial history of Kashmir, North-West Himalaya: A revision of de Terra and Paterson's sequence. Z. Geomorph., 76, 195-212.

Huntley, D. J., Godfrey-Smith, D. I. and Thewalt, M. L. W. (1985). Optical dating of sediments. Nature, 313, 105-107.

Huntley, D. J. and Lamothe, M. (2001). Ubiquity of anomalous fading in K-feldspars and the measurement and correction for it in optical dating. Canadian Journal of Earth Science, 38, 1093-1106.

Hurtado Jr. J. M., Hodges, K. V. and Whipple, K. X. (2001). Neotectonics of the Thakkhola graben and implications for recent activity on the South Tibetan fault system in the central Nepal Himalaya. Geological Society America Bulletin, 113, 222-240.

Hutt, G., Jaek, I. and Tchonka, J. (1988). Optical dating; K-feldspars optical response simulation spectra. Quaternary Science Review, 7, 381-385.

Jain, M. and Singhvi, A. K. (2001). Limits to depletion of Blue-Green light stimulated luminescence in feldspars: implication for Quartz dating. Radiation measurements, 33, 883-892.

Jain, M , Botter-Jenson, L. and Singhvi, A. K. (2003) Dose evaluation using multiple-aliquot quartz OSL: test of methods and new protocol for improved accuracy and precision. Radiation Measurements, 37, 67-80.

Jain, M and Tandon, S. K. (2003). Quaternary alluvial stratigraphy and palaeoclimatic reconstruction at the Thar margin. Current Science, 84, 1048-1055.

Jain, M , Tandon, S. K., Bhatt, S. C, Singhvi, A. K and Mishra, S. (1999). Quaternary alluvial statigraphic development in a Desert River: A case study fiom the western India. J. Geol. Soc. Ind Mem , 42, 273-295.

Johnson, T, C., Brown, E. T., McManus, J., Barry, S., Baker, P. and Gasse, F. (2002). A High Resolution Paleoclimate Record Spanning the past 25,000 Years in Southern East Africa. Science, 296, 113-132.

Juyal, N., Rachna, Raj, Maurya, D. M., Chamyal, L. S. and Singhvi, A. K. (2000). Chronology of Late Pleistocene environmental changes in the lower Mahi basin, Western India. Journal of Quaternary Science, 15, 501-508.

Juyal, N., Kar, A., Rajaguru, S N. and Singhvi, A. K (2003). Luminescence chronology of aeolian deposition during the Late Quaternary on the southern margin of Thar Desert, India. Quaternary International, 104, 87-98.

Kale, V. S. and Rajaguru, S. N. (1987). Late Quaternary alluvial history of the northwestern Deccan upland region. Nature, 325, 612-614.

Kameshwar Rao, K., Wasson, R. J. and Krishnan Kutty, M. (1989). Foraminifear from Late Quaternary dune sands of Thar desert, India. The Society of Economic Palaeontologists and Mineralogists, 4, 168-180.

Kar, A. (1993). Aeolian processes and bedforms in the Thar Desert. Journal of Arid Environment, 25, 83-96.

Kar, A., Felix, C., Rajaguru, S. N. and Singhvi, A. K. (1998). Late Holocene growth and mobility of a transverse dune in the Thar desert. Journal of Arid Environment, 38, 175-185.

Kar, A., Singhvi, A. K., Rajaguru, S. N., Juyal, N., Thomas, J. V., Benerjee, D. and Dhir, R. P. (2001). Reconstruction of Late Quaternary Environment of the Lower Luni Plain, Thar desert, India. Journal of Quaternary Science, 16, 61-68.

Kelts, K. and Hsu, K. J. (1978). Fresh water carbonate sedimentation. In Lakes, Chemistry Geology Physics (Ed) Abraham Lerman, Springer-Verlag, New York, 360p.

Khadkıkar, A. S., Mathew, G., Malik, J. N., Gundu Rao, T. K , Chowgaonkar, M. P. and Merh, S. S (1999). The ınfluence of the Southwest Indıan monsoon on continental deposition over the past 130 kyr, Gujarat, western India. Terra Nova, 11, 273-277.

Knighton, D. and Nanson, G. C. (1997). Distinctiveness, diversity and uniqueness in arid zone rıver systems. In Arid Zone Geomorphology. Thomas D.G.S. (ed) Wiley, Chichester, 185-203.

Kocurek, A. and Lancaster, N (1999). Aeolian system sediment state: theory and Mojave desert Kelso dune field example. Sedimentology, 46, 305-315.

Kolla, V and Biscay, P. E. (1977). Distribution and origin of quartz ın the sedıments of the Indian Ocean. Journal of Sedimentary Petrology, 47, 642-649.

Koss, J. E., Ethridge, F G. and Schumm, S. A. (1994) An experimental study of the effects of base-level changes on fluvial, coastal plain systems Journal of Sedimentary Research, section-B, Stratigraphy and Global Studies, 64, 90-98.

Kotlia, B. S., Bhalla, M. S., Sharma, C., Rajagopalan, G , Ramesh, R., Chauhan, M. S , Mathur, P. D., Bhandari, S. and Chacko, S.T. (1997). Palaeoclimatic conditions in the upper Pleistocene and Holocene Bhimtal-Naukuchiatal lake basin in South-Central Kumaun, North India. Palaeogeography Palaeoclimatology Palaeoecology, 130, 307-322.

Kotlia, B. S., Sharma, C., Bhalla, M. S., Rajagopalan, G., Subrahmanyam, K., Bhattacharyya, A. and Valdiya, K. S. (2000). Palaeoclimatic conditions in the late Pleistocene Wadda Lake, eastern Kumaun Himalaya, India. Palaeogeography Palaeoclimatology Palaeoecology, 162, 105-118.

Kraus, J. M. and Aslan, A. (1993). Eocene hydromorphic paleosols· significance for interpreting ancient flood plain process. Journal of Sedimentary petrology, 63, 453-463.

Kraus, J. M. (1997). Lower Eocene alluvial paleosol: pedogenic development, stratigraphic relationship and paleosol-landscape association. Palaeogeography Palaeoclimatology Palaeoecology, 129, 387-406.

Krishnaswami, S. and Lal, D. (1978). Radionuclide limnochronology. In: Abraham Lerman (Ed), Lakes, chemistry geology and physics. Springer-Verlag, New York, pp. 153-177.

Kusumgar, S., Agrawal, D. P., Bhandari, N., Deshpande, R. D., Raina, A., Sharma, C. and Yadava, M. G. (1992). Lake sedimentation from Kashmir Himalayas: inverted ^{14}C chronology and its implications. Radiocarbon, 34, 561-565.

Kutzbach, J. E., Guetter, P. J., Ruddiman, W. F. and Prell, W. L. (1989). Sensitivity of climate of late Cenozoic uplift in southern Asia and American west: numerical experiment. Journal of Geophysical Research, 94, (D15), 18393-18407.

Lancaster, N. (1981). Palaeoenvironmental implications of fixed dune system in southern Africa. Palaeogeography Palaeoclimatology Palaeoecology, 33, 327-346.

Lancaster, N. (1990). Palaeoclimatic evidence from sand sea. Palaeogeography Palaeoclimatology Palaeoecology, 76, 279-290.

Lean, C. M. and McCave, I. N. (1998). Glacial to interglacial mineral magnetic and palaeoceanographic changes at Chatham Rise, SW Pacific Ocean. Earth and Planetary Science Letters, 163, 247-260.

LeFort, J H (1975). Himalaya: The collided range. Present knowledge of the continental arc. American Journal of Science, 275A, 1-44.

Leigh, D. S and Feeney, T. P. (1995). Paleochannels indicating wet climate and lack of response to lower sea level, southeast Georgia. Geology, 23, 687-690.

Lisitzin. A. P. (1996). The age of terrigenous material as an indicator of its origins (Age and Isotopic Measurements). Oceanic Sed. Litho. Geochemica, American Geophysical Union, Pub, 192-230.

Lowe, J. J. and Walker, M. J. C. (1998). Reconstructing Quaternary Environments (Ed). Longman, Hong Kong, 434p.

Maltman, A. (1987). Shear zones in argillaceous sediments- an experimental study, in Deformation of Sediments and Sedimentary Rocks, edited by M.E. Jones and R.M.F. Preston. Geological Society Special Publication, 29, 77-87.

Marco, S. and Agnon, A. (1995). Prehistoric earthquake deformations near Masada, Dead Sea Graben. Geology, 23, 695-698.

Martinson, D. G., Pisias, N. G., Hays, J. D., Imbrie, J., Moore, T. C. and Shackleton, N. J. (1987). Age dating and orbital theory of the ice ages: development of a high resolution 0-300,000 year chronostratigraphy. Quaternary Research, 27, 1-29.

Maurya, D. M., Chamyal, L. S. and Merh, S. S. (1995). Tectonic evolution of the Central Gujarat plain, western India. Current Science, 69, 610-613.

Maurya, D. M., Rachna, Raj and Chamyal, L. S. (1998). Seismically induced deformational structures (seismites) from the Mid-Late Holocene terraces, lower Mahi valley, Gujarat. Journal of Geological Society of India, 51, 755-758.

Maurya, D. M., Rachna Raj and Chamyal, L. S. (2000). History of tectonic evolution of Gujarat alluvial plains, Western India during Quaternary: a review. Journal of Geological Society of India, 55, 343-366.

McCarthy, T. S. and Metcalfe, J. (1990). Chemical sedimentation in Okavango Delta, Botswana. Chem. Geol. 89, 157-178.

Meghraoui, M., Camelbeeck, T., Vanneste, K., Brondeel, M. and Jongmans, D. (2000). Active faulting and paleoseismology along the Bree fault, lower Rhine graben, Belgium. Journal of Geophysical Research, 105, 13809-13841.

Merh, S S. and Chamyal, L. S. (1997). The Quaternary Geology of Gujarat Alluvial Plain. Indian National Science Academy, New Delhi, 98p.

Meyers, P A. and Ishiwatari, R. (1995). Organic matter accumulation records in lake sediments. In: Lerman, A., Imboder, M. D., Gat, R.J., (Eds.), Physics and Chemistry of Lakes. Springer-Verlag, Berlin, 279-328.

Miall, A. D. (1988). Stratigraphy sequences and their chronostratigraphic correlation. Journal of Sedimentary petrology, 61, 497-505.

Miall, A. D. (1996) The Geology of Fluvial Deposits. Springer-Verlag, Berlin. 582p.

Molnar, P. and Tapponier, P. (1978). Active tectonics of Tibet. Journal of Geophysical Research, 83, 5361-5374.

Molnar, P and England, P. (1990). Late Cenozoic uplift of mountain ranges and global climate change. Nature, 346, 29-34.

Molnar, P., England, P. and Martinod, J. (1993). Mantle dynamics, uplift of Tibetan Plateau and Indian monsoon. Reviews of Geophysics, 31, 357-396.

Montgomery, D. R. (1994). Valley incision and the uplift of mountain peaks. Journal of Geophysical Research, 99, 13913-13921.

Murphy, M. A. and Harrison, T. M. (1999). Relationship between leucogranite and the Qomolangma detachment in the Rongbuk Valley, south Tibet. Geology, 27, 831-834.

Murray, A. S., Roberts, R. G. and Wintle, A. G. (1997). Equivalent dose measurement using single aliquot of quartz. Radiation Measurements, 27, 171-184.

Murray, A. S. and Roberts, R. G. (1998a). Measurement of the equivalent dose in quartz using a regeneration-dose single aliquot protocol. Radiation Measurements, 29, 503-515.

Murray, A. S. and Wintle, A. G. (1998b).Measurement of the equivalent dose in Quartz using a regenerative-dose single –aliquot protocol. Radiation measurements, 29, 503-515.

Murray, A. S. and Wintle, A. G. (2000a). Factors controlling the shape of the OSL decay curve in quartz. Radiation Measurements, 29, 65-79.

Murray, A. S. and Wintle, A. G. (2000b). Luminescence dating of quartz using an improved single aliquot regenerative dose protocol. Radiation Measurements, 32, 57-73.

Murthy, J. V. S. (1975). Proceedings of the National Symposium on Hydrology, University of Roorkee, Roorkee, 2-5.

Nanson, G. C. and Croke, J. C. (1992). Genetic classification of floodplains. Geomorphology, 4, 459-486.

Ni, J. and York, J E. (1978). Cenozoic extensional tectonics of the Tibetan Plateau. Journal of Geophysical Research, 83, 5277-5384.

Nicol, A., Walsh, J. J., Watterson, J. and Bretan, P. G. (1995). Three dimensional geometry and growth of conjugate normal faults. Journal of Structural Geology, 17, 847-862,

Oldfield, F , Barnosky, C., Leopold, E. B. and Smith, J. P. (1983). Mineral Magnetic studies of lake sediments. Hydrobilogia, 103, 37-44.

Oldfield. F. (1991) Environmental magnetism- A personal perspective. Quaternary Science Reviews, 10, 73-85

Olley, J M., Caitcheon, G. G. and Roberts, R. G. (1999). The origin of dose distributions in fluvial sediments and the prospect of dating single grains from fluvial deposits using optically stimulated luminescence. Radiation Measurements, 30, 207-217.

Olsson, I U. (1970). The use of Oxalic acid as a standard. Radicarbon variation and absolute chronology. (Eds) Olsson. I.U. Almquist and Wiksel, Stockholm. 17p.

Owen , L. A., Finkel, R. C., Caffee, M. W. and Gualtieri, L. (2002). Timing of multiple late Quaternary glaciation in the Hunza valley, Karakoram mountain, northern Pakistan: Defined by cosmogenic radionuclide dating of moraines. Geological Society America Bulletin, 114, 593-604

Pant, R K. and Chamyal, L. S. (1990). Quaternary sedimentation pattern and terrain evolution in the Mahi river, Gujarat, India. Proceedings of Indian National Science Academy, 56, 501-511.

Pant, R. K. (1993). Spread of loess and march of desert in western India. Current Science, 54, 841-847.

Pant, R. K., Juyal, N., Rautela, P., Yadava, M. G. and Sangode, S. J. (1998). Climate instability during last glacial stage: Evidence from varve deposits at Goting, district Chamoli, Garhwal Himalya, India. Current Science, 75, 850-855

Pant, R. K. (1999). Periodicity and amplitude of Quaternary Glaciation in Central Himalaya, DST Project report No. ESS/CA/A3-17/95, 75p.

Paul, S. K. (1986). Seismic condition in northeast Kumaun Himalaya and the adjoining area in far most western Nepal. Proceedings of International Symposium on Neotectonics in South Asia, Organised by Survey of India, Dehra Dun, 396-406.

Partridge, T. C. (1997). Cainozoic environmental changes in southern Africa with special emphasis on the last 200 000 years. Progress in Physical Geography, 21, 3-22.

Petit-Maire, N. and Guo, Z (1996). Mise en evidence de variations climatiques holocenes rapides, en phase dans les deserts actuels de chine et du Nord de lAfrique, Science de le Terre et des Planetes, 322, 847-851.

Pooltton, N. R J. and Biliff, I. K. (1989) The use of LEDs as an excitation source for photoluminescence dating of sediments Ancient Tl. 7, 18-20.

Polach H. A. and Stipp J. J. (1967). Improved synthesis techniques for methane and benzene radiocarbon dating. International Journal of Applied Radiation and Isotopes, 18, 359-364.

Polach H., Gower J. and Fraser, I (1972). Synthesis of high purity benzene for radiocarbon dating by liquid scintillation method. In Proc 8th International Conference on Radiocarbon Dating, Lower Hutt, New Zealand, 145-157.

Porter, S. C. and Zhisheng, An. (1995). Correlation between climate events in the North Atlantic and China during the last glaciation. Nature, 375, 305-308.

Prell, W. L. and Campo, E. Van. (1986). Coherent response of Arabian Sea upwelling and pollen transport to late Quaternary monsoonal winds Nature, 323, 526-528.

Prescott, J. R, Huntley, D. J. and Hutton, J. T. (1993). Estimation of equivalent dose in thermoluminescence dating. The Australian slide method. Ancient TL 11, 1-5.

Rachna Raj, Maurya, D. M. and Chamyal, L. S. (1998). Late Quaternary sea level changes in western India: evidence from Lower Mahi valley. Current Science 79, 910-914.

Rachna Raj, Maurya, D. M. and Chamyal, L. S. (1999). Tectonic geomorphology of Mahi river basin, Western India. J. Geol. Soc. Ind., 54, 387-398.

Rao, V. P. and Wagle, B. G. (1997). Geomorphological and surficial geology of the western continental shelf and slope of India: a review. Current science, 73, 330-350.

Raymo, M. E. and Ruddiman, W. F. (1992). Tectonic forcing of late Cenozoic climate. Nature, 359, 117-122.

Rea, D. K. (1994). The palaeoclimatic record provided by aeolian deposition in the deep sea: the geological history of winds. Reviews of Geophysics, 32, 159-195.

Rhodes, E. J. (1988). Methodological considerations in the optical dating of quartz. Quaternary Science Reviews, 7, 395-400.

Ringrose, P. S. (1989). Palaeoseismic (?) liquefaction event in late Quaternary lake sediment at Glen Roy, Scotland. Terra Nova, 1, 57-62.

Roberts, R. G. (1997). Luminescence dating in archaeology: from origis to optical. Radiation Measurements, 27, 819-892.

Robinson, S. G. (1986). The Late Pleistocene palaeoclimatic record of North Atlantic deep-sea sediments revealed by mineral magnetic measurements. Physics Earth Planet Interior, 42, 22-57.

Rodriguezpascua, M. A., Vicente, G. De. and Calvo, J. P. (2001). Paleoseismological analyses of late Miocene lacustrine successions in the Prebetic Zone, SE Spain. Acta Geologicahispanica, 36, 213-232.

Rosteck, F., Bard, E., Beaufort, L., Sonzogni, C. and Ganssen, G. (1997). Sea surface temperature and productivity records for the past 240 kyr in the Arabian Sea Deep-Sea Research II, 44, 1461-1480.

Ruddıman, W. F. and Kutzbach, J. E. (1989). Forcing of Late Cenozoic Northern Hemısphere climate by plateau uplift ın southern Asia and America west. Journal of Geophysical Research, 94, 409-427

Saini, N K., Mukherjee, P. K., Rathi, M. S., Khanna, P. P. and Purohit, K. K. (1998). A new eochemical Reference Sample of Granite (DG-H) from Dalhousie, Himachal Himalaya. Journal of Geological Society of India, 52, 603-606.

Sankalıa, H. D. (1965). Excavations at Langhnaj 1944-1963. Poona· Deccan college postgraduate and Research Institute

Sant, D. A. and Karanth, R. V. (1993). Drainage evolution of the lower Narmada valley, western India. Geomorphology, 8, 221-244

Sastry, M., Chandra, V. A. and Mamgain, V. D. (1970). Note on Pleistocene varved clays and associated microflora from Goting, Niti area of Kumaon Himalaya. Indian Minerals, 24, 131-138.

Sarkar, A., Ramesh, R., Bhattacharya, S. K. and Rajagoplan, G. (1990). Oxygen isotope evidences for stronger winter monsoon current during the last glaciation, Nature, 343, 549-551.

Sareen, B. K., Tandon, S. K. and Bhola, A .M. (1993). Slope deviatory alignment, stream network and lineament orientation of Sabarmati river system. Neotectonic activity in the mid-late Quaternary. Current Science, 64, 827-836.

Sarenthıen, M. (1978). The sand desert during glacial maximum. Nature, 271, 43-46.

Schafer, J. M., Tschudi, S., Zhao, Z., Wu, X., Ivy-Ochs, S., Wieler, R., Baur, H., Kubik, Peter, W.,and Schluchter, C. (2002). The limited influence of glaciation in Tibet on global climate over the past 170 000 yr. Earth Planetary Science Letters, 194, 287-297.

Schumm, S. A. (1977). The fluvial system. Wiley and Sons, New York, 338p.

Schumm, S. A. and Brakenridge, G. R. (1987). River responses. In Ruddiman, W.F. and Wright, H.E. Jr. (Ed.) North America and adjacent oceans during the last deglaciation. Geological society of America, The Geology of North America, K-3.

Schumm, S. A. (1993). River response to base level changes. Implication for sequence stratigraphy. Jour. Geol. 101, 279-294.

Seeber, L. and Gornitz, V. (1983). River profiles along the Himalayan arc as indicators of active tectonics. Tectonophysics, 29, 335-367.

Seilacher, A. (1969). Fault-graded beds interpreted as seismites. Sedimentology, 13, 155-159.

Shah, S. K. and Sinha, A. K. (1975) Stratigraphy and tectonics of the Tethyan Zone in a part of Western Kumaun Himalaya. Himalayan Geology, 4, 1-24

Sharma, M. C. and Owen, L. A. (1996). Quaternary glacial history of the Garhwal Himalaya, India. Quaternary Science Reviews, 15, 335-365

Shaw, P A. and Cook, H. J. (1986). Geomorphic evidence for the Late Quaternaiy palaeoclimate of the Middle Kalahari of Northen Botswana. Catena, 13, 349-359.

Shi, Y., Yu, G., Liu, X., Li, B. and Yao, T (2001). Reconstruction of the 30-40 ka BP enhanced Indian monsoon climate based on gelogical records from the Tibet plateau Palaeogeography Paleoclimatology Plalaeoecology, 169, 69-83.

Short, M. A. and Huntley, D J (1992) Infrared stimulation of quartz. Ancient TL. 10, 19-21.

Sims, J D. (1975) Determining earthquake recurrence intervals from deformational structures in young lacustrine sediments. Tectonophysics, 29, 141-152

Singh, S. (1977). Geomorphological investigations of Rajasthan desert CAZRI monograph, 7, Central Arid zone Research Institute, Jodhpur, India

Singh, G., Wasson, R. J. and Agrawal, D. P. (1990). Vegetational and seasonal climatic changes since the last full glacial in the Thar desert, northwest India- Reviews Palaeobotany and Palynology, 64, 351-358.

Singh, I. B., Sharma, S., Sharma, M , Srivastava, P and Rajagopalan, G (1999) Evidence of human occupation and humid climate of 30 ka in the alluvium of southern Ganga Plain. Current Science, 76, 1022-1026.

Singhvi, A. K., Sharma, Y. P. and Agrawal, D. P. (1982) Thermoluminescence dating of sand dune in Rajasthan. Nature, 295, 313-315.

Singhvi, A. K. and Kar, A. (1992). Thar Desert in Rajasthan land, Man and environment, (Eds), Geological Society of India, Bangalore, 191p.

Singhvi, A. K., Bluszcz, A., Bateman,M. D. and Rao. S. (2001). Luminescence dating of loess-palaeosol sequences coversands: methodological aspects and palaeoclimatic implications, Earth Science Reviews, 54, 193 – 211.

Sinha, A. K. (1968). Geology of Higher Himalaya, John Wiley and Sons, Chichester, 219pp.

Sirdhar, V., Chamyal, L. S. and Merh, S. S. (1994). North Gujarat rivers: Remnants of super fluvial system. Journal of Geological Society of India, 44, 427-434.

Sirocko, F. and Lange, H. (1991). Clay-mineral accumulation rates in the Arabian sea during the late Quaternary. Marine Geology, 97, 105-119.

Sirocko, F., Sarnthein, M., Erlenkeuser., Lang, H., Arnold, M. and Duplessy, J.C. (1993). Century-scale events in monsoolnal climate over the past 24,000 years. Nature, 364, 322-324.

Spooner, N. A (1994). On the optical dating signal from quartz. Radiation Measurements, 23, 593-600.

Srivastava, P., Juyal, N., Singhvi, A. K., Wasson, R. J. and Bateman, D. (2001). Luminescence chronology of river adjustment and incision of Quaternary sediments in the alluvial plain of Sabarmati river, north Gujarat, India. Geomorphology, 36, 217-229.

Street-Perrott, F. A. and Perrott, R. A (1990) Abrupt climate fluctuations in the tropics: The influence of Atlantic Ocean circulation. Nature, 358, 862-865.

Stocklin, J. (1980). Geology of Nepal and its regional frame. Journal of Geological Society of London, 137, 1-34.

Stokes, S. (1992). Optical dating of young (modern) sediments using quartz: results from a section of depositional environments. Quaternary Science Reviews, 11, 153-159.

Stuiver, M (1975) Climate versus changes in ^{13}C content of the organic component of lake sediments during the Late Quaternary Quaternary Research, 5, 251-262.

Stuiver, M. (1983). International agreement and use of the new Oxalic acid standard. Radiocarbon, 25, 793-795.

Subbarao, B. (1952). Archaeological explorations in the Mahi valley. Journal of Maharaja Sayajirao University, Baroda, I, 33-74.

Tandon, S. K., Sareen, B. K., Someshwararao, M. and Singhvi, A. K. (1997). Aggradation history and luminescence chronology of Late Quaternary semi-arid sequences of the Sabarmati basin, Gujarat, western India. Palaeogeogeography Palaeoclimatology Palaeoecology, 128, 339-357.

Tamers, M. A. (1975). Chemical yield optimisation of benzene synthesis for radiocarbon dating. International Journal of Applied Radiation and Isotopes, 26, 676-682

Tchakerian, V. P. (1994). Palaeoclimatic interpretations from desert dunes and sediments. In: Athol D. Abrahams., Anthony J. Parsons (Eds.), Geomorphology of desert environment (eds.). Champman and Hall, London, 631-643.

Thomas, G. S. P. and Connell, R. J. (1985). Iceberg drop, dump,and grounding structures from Pleistocene glacio-lacustrine sediments, Scotland. Journal of Sedimentary Petrology, 55, 0243-0249.

Thomas, J. V., Kar, A., Kailath, A. J., Juyal, N., Rajaguru, S. N. and Singhvi, A. K. (1999). Late Pleistocene history of aeolian accumulation in the Thar desert, India. Zieshift Geomorphology, 116, 181-194.

Thornes, J B. (1994). Channel processes, evolution and history. In Abrahams, A.D. and Parsons, A.J. (ed.), Geomorphology of desert environment, London, Chapman and Hall, 288-317.

Tooth, S. (2000). Process, form and change in dryland rivers: a review of recent research. Earth Science Reviews, 51, 67-107.

Valdiya, K. S. (1987).Trans-Himadri thrust and domal upwarps immediately south of collision zone and tectonic implications. Current Science, 56, 200-209.

Valdiya, K. S. (1993). Uplift and geomorphic rejuvenation of the Himalaya in the Quaternary. Current Science, 64, 873-885.

Valdiya, K. S. (2001). Reactivation of terrain defining boundary thrusts in Central sector of the Himalaya: Implications. Current Science, 1418-1431.

Venkateshan, T R and Ramesh, R. (1993). Consideration of analytical uncertainities while plotting histograms Journal of Geological Society of India, 41, 313-317

Verosub, K. L. and Roberts, A. P. (1995). Environmental magnetism. Past, present and future. Journal of Geophysical Research, 100, 2175-2192.

Wang, H, Liu, H., Cui, H. and Abrahamsen, A. (2001). Terminal Pleistocene/Holocene palaeoenvironmental changes revealed by mineral-magnetism measurements of lake sediments for Dali Nor area, southeastern Inner Mongolia Plateau, China. Palaeogeography Palaeoclimatology Palaeoecology, 170, 115-132.

Wasson, R J., Rajaguru, S. N., Mishra, V. N., Agrawal, D. P., Dhir, R. P., Singhvi, A. K. and Rao, K. K. (1983). Geomorphology, Late Quaternary stratigraphy and palaeoclimatology of the Thar dune field. Zieshift Geomorphology, 45, 117-151.

Weaver, J. E., (1954). North American Prairie, Johnson publication company, Lincoln, Nebruska.

Wiggs, G F. S. (1997). Sediment mobilization by the wind. In: Thomas, S.G. David (Eds.), Arid Zone Geomorphology. John Wiley and Sons, New York, 351-372.

Williams, M. A. J. (1975). Late Quaternary tropical aridity synchronous in both hemispheres? Nature, 253, 617-618.

William, M. A. J. and Clark, M. F. (1984). Late Quaternary environments in north-central India. Nature, 308, 633-635.

Williamson, D., Jelinowska, A., Kissel, C., Tucholka, P., Gibert, E., Gasse, F., Massault, M., Taieb, M., Van Campo and E., Wieckowski. (1998). Mineral-magnetic proxies of erosion/oxidation cycles in tropical marr-lake sediments (Lake Tritrivakely, Medagascar): palaeoenvironmental implications. Earth Planet Science Letter, 155, 205-219.

Williams, M. A. J. and Royce, K. (1982). Quaternary geology of Middle Son Valley, north-central India: implications for prehistoric archaeology. Palaeogeog. Palaeoclim. Palaeoeco. 38, 139-162.

Williams, M., Dunkerley, D., Deckker, P. D., Kershaw. P. and Chappel, J. (1998). Quaternary Environment (Ed), Arnold, London, 325p.

Willis, B J. and Behrensmeyer, A. K. (1994). Architecture of Miocene overbank deposits in northern Pakistan Jour. Sediment. Res., 64, 60-67.

Winograd, I. S., Landwehr, J. M., Ludwig, K. R., Coplen, T. B. and Riggs, A. C. (1997) Duration and structure of the past four interglaciations. Quat. Res., 48, 141-154.

Wintle, A. G. and Huntley, D. J. (1979). Thermoluminescence dating of a deep-sea sediment core Nature, 279, 710-712.

Wu, C., Nelson, K. D., Wortman, G., Samson, S., Yue, Y., Li, J., Kidd, W. S. F. and Edwards, M. A (1998). Yadong cross structure and South Tibetan Detachment in the east central Himalaya (89°-90°E). Tectonics, 17, 28-45

Yadava, M. G and Ramesh, R. (1999). Speleothems- Useful Proxies for Past Monsoon Rainfall Journal of Scientific and Industrial Research, 58, 339-348.

Yan, Z. and Petit-Maire, N (1994). The last 140ka in the Afro-Asian arid/semi-arid transitional zone. Palaeogeography Palaeoclimatology Palaeoecology, 110, 217-233.

Yin, An. (1993). Mechanism of wedge-shaped fault blocks. An elastic solution for compressional wedges. Journal of Geophysical Research, 98, 14245-14256.

Zeuner, E. (1950). Stone Age Pleistocene chronology of Gujarat. Deccan College Monograph 6, 45p.

Zeuner, E. (1952). The microlithic industry of Langhnaj, Gujarat. Man, 52, 1-4.

Zheng, H., McAulay, P. C., Zisheng, A., Zhou, J. and Dong, G. (2000). Pliocene uplift of the northern Tibetan Plateau. Geology, 28, 715-718.