

REF E R E N C E S

- Adams, A. E. and Machenkie, W. S. 1984 : Atlas of sedimentary rocks under the microscope. *Longman Group Ltd.* p.104
- Adye, E. H. 1914 : Memoir on the Economic Geology of Navanagar State in Province of Kathiawar, India. *Thacker, Bombay* p.262
- Agrawal, D. P. 1970 : Tata Institute Radiocarbon Date List *Radiocarbon Vol. 12*
- Agrawal, D. P. and Roy, B. 1977 : Miliolite problem SEM and other analytical Data. *Ecology and Archaeology of Western India. Concept, Delhi* pp.217 - 223.
- Agrawal, D. P., Rajaguru, S. N. and Roy, B. 1978 : SEM and other studies on the Saurashtra Miliolite Rocks. *Sedimentary Geology Vol.20* pp.41 - 47.
- Ahmad, E 1972 : Coastal geomorphology of India *Orient Longman, New Delhi* p.222.
- Allahabadi, B. B. 1986 : Miliolite rocks of Kutch, their geology and depositional significance. *Ph.D.Thesis. The M. S. University of Baroda (Unpub.)* p.295.
- Allan, J. R. and Matthews, R. K. 1977 : Carbon and Oxygen isotopes as diagenetic and stratigraphic tools; data from surface and subsurface of Barbados, West Indies. *Geology Vol.5* pp.16-20.
- Allchin, B., Goudie, A. S. and Hegde, K. T. M. 1978 : The Prehistory and palaeogeography of the Great Indian Desert. *Academic Press* p.370.
- Allen, J. R. L. 1970 : Physical processes of sedimentation. *Allen & Unwin, London*, p.370.
- Assereto, R. L. and Kendall, C. G. St. C. 1977 : Nature, Origin and classification of Pertidial teepee structure and related breccias. *Sedimentology, Vol.24* pp. 153-210.
- Bagnold, R. A. 1941 : The Physics of blown sand and desert dunes. *Methuen and Co.Ltd. London* p.265.
- Baskaran, M. 1985 : Radiometric, mineralogical and trace elemental studies on the Saurashtra Quaternary carbonate deposits : Implications to their age and Origin. *Ph.D. Thesis. Gujarat University, Ahmedabad.(Unpublished)* p.173.
- Baskaran, M. and Somayajulu, B. L. K. 1986: Mineralogy of Saurashtra miliolites *Jour.Geol.Soc.India Vol.27 No.1* pp.63 - 80.

- Baskaran, M. Rajagopalan, G. and Somayajulu, B. L. K. 1986 : Age determination of Saurashtra Miliolites by $^{230}\text{Th}/^{234}\text{U}$ and ^{14}C methods. *Nat. workshop on Quat. Carb. and miliolite problem of Gujarat. PRL, Ahmedabad (Abst.)* pp.27-28.
- Baskaran, M., Rajgopalan, G. and Somayajulu, B. L. K. 1989 : $^{230}\text{Th}/^{234}\text{U}$ and ^{14}C dating of Quaternary carbonate deposits of Saurashtra, India. *Chem. Geol. (Isot. Geosci. Sect.) Vol.79* pp. 65 - 82.
- Bathurst, R. G. C. 1958 : Diagenetic fabrics in some British Dinantian limestone. *Liverpool Manchester Geol. Jour Vol.2* pp.11 - 36.
- Bathrust, R. G. C. 1971 : Carbonate Sediments and their Diagenesis. *Dev. Sed. Vol.12, Elsevier Amsterdam* p.620.
- Beales, F. W. 1958 : Ancient sediments of Bahama type. *Bull. Am. Assoc. Petro. Geol., Vol.42* pp.1845 - 1880.
- Bennema, P. and Gilmer, G. H. 1973 : Kinetics of Crystal growth. In: P. Hartman (ed.) *Crystal Growth Elsevier, New York* pp.263-327.
- Bhatt, J. C. and Patel, J. P. 1977 : Depositional environments of psuedo-oolite of Saurashtra Coast. *Ecology and Archaeology of Western India Concept, Delhi.* pp. 233 - 236.
- Bhatt, N. 1992 : Petrographic Criteria for Freshwater diagenesis of Saurashtra miliolites. *Proc. Nat. Sem & 79th Ind. Sci. Cong. Sect. VII ESS, Baroda (Abs.)* pp. 15 - 16.
- Bischoff, J. L. 1969 : Temperature controls on aragonite - calcite transformation in aqueous solution. *Amer. Mineralogist, Vol.54* pp.149 - 155.
- Biswas, S. K. 1971 : The miliolite rocks of Kutch & Kathiawar. *Sedimentary Geology Vol.5* pp.147 - 164.
- Blake, J. F. 1897 : On some superficial deposits in Cutch. *Quat. Jour. Geol. Soc. London Vol.53* pp.223 - 243.
- Bretz, J. H. and Horberg, L. 1949 : Caliche in southeastern New Mexico. *Jour. Geol., Vol.57* pp.491 - 511.
- Bromley, R. G. 1990 : Trace Fossils - Biology and Taphonomy. *Unwin Hyman, London* p.280.
- Brown, W. H., Fyfe, W. S. and Turner, F. J. 1962 : Aragonite in California glaucophane schists. *Jour. Petrol Vol.3* pp.566-587.
- Bruckner, H. 1989 : Late Quaternary shorelines in India. In: D. B. Scott et al. (eds.) *Late Quaternary Sea-level correlation and applications. Kluwer Academic Publishers* pp.169 - 194.

- Bruckener, H., Montaggioni, L. and Rescher, K. 1987 : Miliolite occurrences on Kathiawar Peninsula (Gujarat), India. Latest results from chronostratigraphical, Petrological and palaeozoological analyses. *Berliner Geographische Studies* Vol.25, pp.343 - 361.
- Budd, D. A. 1984 : Freshwater diagenesis of Holocene ooid sands, Schooner cays, Bahamas. *Ph.D.Thesis, The Uni. of Texas at Austin (Unpublished)* p.491.
- Budd, D. A. 1988 : Aragonite - to - calcite, transfarmation during fresh-water diagenesis of carbonates :insights from pore-water chemistry. *Geol.Soc.Amer.Bull.Vol.100* pp.1260 - 1270.
- Budd, D. A. and Land, L. S. 1990 : Geochemical imprint of meteoric diagenesis in Holocene ooid sands, schooner cays, Bahamas : correlation of calcite cement Geochemistry with extent groundwaters. *Jour. Sed. Petrol. Vol.60/3* pp.361 - 378.
- Busenberg, E. and Plummer, L. N. 1986 : A comparative study of the dissolution and crystal growth kinetics of calcite and aragonite. In: F. A. Mumpton, (ed.) *Studies in Diagenesis. U.S.Geol.Surv.Bull. Vol 1578* pp.139 - 168.
- Carter, H. J. 1849 : On forminipera their organisation and their existance in fossilised state in Arabia, Sindh, Kutch and Kathiawar. *Jour. Royal Asiatic Soc. Bombay Vol.3* pp.153-173.
- Chakrabarti, A. and Baskaran, M. 1989 : Biogenic Faecal pellet mounds in Quaternary miliolites of Saurashtra, India *Palaeogeography, Palaeoclimatology, Palaeoecology, Vol.73* pp.311 - 315.
- Champman, F. 1900 : Notes on the consolidated aeolian sands of Kathiawar. *Quart.Jour.Geol.Soc. London Vol.56* pp.584 - 589.
- Chappel, J and Shackleton, N. J. 1986 : Oxygen isotope and sea level. *Nature, Vol.324* pp.137 - 140.
- Charlesworth, J. K. 1966 : The Quaternary Era. *Quat. Res. Vol.2* pp.1240 - 1270.
- Chatterjee, S. P. 1962 : Fluctuations of Sea-level around coasts of India during Quaternary Period. *Zeitschrift fur Geomorphologic Suppl. Vol.3 Berlin* pp.48 - 56.
- Chave, K. E. 1952 : A solid solution between calcite and dolomite *Jour. Geol., Vol.60* pp.190 - 192.
- Chilingar, G. V., Bissell, H. J. and Wolf, K. H. 1967 : Diagenesis of carbonate rocks. In : Gunnar, L. and Chillingar, G. V. (eds.) *Diagenesis of Sediments. Development in Sedimentology, Vol.8* Amsterdam : Elsevier pp. 179 - 322.

- Chilinger, G. V., Bissell, H. J. and Fairbridge, R. W. (eds.) 1967 : Carbonate Rocks; physical and chemical aspects. *Development in Sedimentology*, Vol.9 Amsterdam : Elsevier p.413.
- " Choquette, P. W. 1978 : Dolite. In: R. W. Fairbridge, J. Bourgeois (eds.) The encyclopedia of sedimentology. Stroudsburg, Pennsylvania pp.510 - 515.
- Collinson, J. D. 1986 : Deserts. (Ch.5) In: H. G. Reading (ed.) *Sedimentary Environments and Facies*. 2nd edition, Blackwell Scientific Publications. Oxford, London-Edinburgh. pp.95 - 112.
- Coogan, A. H. and Manus, R. W. 1975 : Compaction and diagenesis of carbonate sands In: Chillingar, G. V. and Wolf, K. H. (eds.) compaction of coarse grained sediments. *Dev.in sedimentology* Elsevier Vol.1 pp. 79 - 166.
- Davis, R. A. Jr. 1983 : Depositional Systems : A genetic approach to sedimentary geology. Prentice - Hall, Inc. New Jersey p.669.
- Davies, P. J. and Kinsey, D. W. 1973 : Organic and inorganic factors in recent beachrock formation. Heron island, Great Barrier Reef. *Jour. Sed. Petr.* Vol.43 No.1 pp.59 - 81.
- De Lumley 1976 : Cadre Chronologique absolu La Prehistorie Fruaigie Tome I.C.N.R.S. Paris pp.1 - 23.
- Desai, G. and Pandya, K. 1982 : Microfauna of the Saurashtra coastline sediments. *Geol.Geom. Quat. Terrains of Guj.* Report to UGC Dept. of Geol. MSU, Baroda (Un Pub.) pp.191 - 206.
- Desai, G. and Shringarpure, D. M. 1982 : Recent Foraminifera of the Saurashtra and the South Gujarat Coasts : impact of sedimentation on their nearshore distribution. *Rec. Res. in Geol.*, Vol. 9 Hindustan Pub. Corp. (India) pp.372 - 377.
- Desai, G., Hardas, M. G., Patel, M. P. and Merh, S. S. 1982 : Origin of miliolite rocks of Kutch-microfaunal evidences. *Jour. Geol. Soc. India* Vol.23 No.5 pp.246 - 252.
- Deshpande, S. V. and Biswas, S. K. 1986 : Sedimentary Processes during Quaternary limestone deposition along the coastal and inland regions of Saurashtra and Kutch, Western India. *Nat.Workshop on Quat.Carb. & Milio. Prob.* of Guj.P.R.L. Ahmedabad. pp.60 - 62.
- Deshpande, S. V. and Sharma, S. K. 1984 : Sedimentary processes during Quaternary limestone deposition along coastal regions of Saurashtra Peninsula. *Proc. Symp. Quat. Episodes. Deptt. Geol. M.S.U.*, Baroda. pp.211 - 228.
- Dickson, J. A. D. 1965 : A modified staining technique for carbonates in thin sections. *Nature*, Vol.205 pp.587.

- Donahue, J. 1978 : Pisolite. In : R. W. Fairbridge & J. Bourgeois (eds.) *The encyclopedia of sedimentology*. Stroudsburg, Pennsylvania pp.582 - 583.
- Dunham, R. J. 1962 : Classification of carbonate rocks according to depositional textures. *Mem. Ame. Assoc. Petrol. Geol Vol.1* pp.108 - 121.
- Dunham, R. J. 1969 a : Early vadose silt in townsend mound (reef). New Mexico. In : G. M. Friedman (ed.) *Depositional Environments in carbonate Rocks*. Soc. Econ. Paleont. Mine. Spec. Pub. No.14 pp.139 - 181.
- Dunham, R. J. 1969 b : Vadose Pisolite in the capitan reef (Permian). New Mexico & Texas In: G.M. Friedman (ed.) *Depositional environments in carbonate Rocks*. Soc. Econ. Paleont. Mine. Spec. Pub. No. 14 pp. 182 - 191.
- Dunham, R. J. 1971 : Meniscus cement In: Bricker, O.P. (ed.) *Carbonate Cements*. Baltimore London : Harper. pp.297 - 302.
- Elloy, R. and Thomas, G. 1981 : Dynamique de la genese des croutes calcaries (Calerites) developpees sur series rouges pleistocenes en Algerie nordoccidentale. Contre geomorphologique et climatique. Petrographie et geochimie. *Bull. Cent. Rech. Explor - prod Elf - Aquitaine Vol.5* pp.53 - 112.
- Esteban, M. and Pray, L. C. 1983 : Pisoids and pisolite facies (Permian), Guadalupe Mountains, New Mexico and West Texas. In: T. M. Peryt (ed.) *Coated Grains*. Springer-verlag Berlin Heidelberg pp. 503 - 537.
- Evans, J. W. 1900 : Mechanically formed limestones from Junagarh and other localities. *Quart. Jour. Geol. Soc. London Vol.56* pp.559 - 583.
- Fairbridge, R. W. 1960 : The changing level of the sea. *Scientific American, Vol.202* pp. 70 - 79.
- Fairbridge, R. W. 1961 : Eustatic changes in Sea level. *Physics and Chemistry of the earth Vol.4* pp.99 - 185.
- Fedden, F. 1884 : Geology of Kattyawar Peninsula in Guzerat *Mem. Geol. Surv. India Vol. 21 Pt.2* pp.54 - 125.
- Flugel, E. 1982 : Microfacies analysis of limestones. *Springer - verlag Berlin, Heidelberg. N.York.* p.633.
- Folk, R. A. 1962 : Spectral Subdivision of Limestone types. *Bull. Ame. Assoc. Petrol. Geol. Mem. Vol.1* pp.62 - 84.
- Folk, R. A. 1959 : Practical petrographic classification of limestones. *Bull. Ame. Assoc. Petrol. Geol. Vol.43* pp.1 - 38.

- Folk, R. L. and Ward, W. C. 1957 : Brazos river bar : A study in the significance of grain size parameters. *Jour. Sed. Petrol.* Vol.27 pp. 3 - 26.
- Foote, R. B. 1898 : Geology of Baroda State Baroda State p.194.
- Friedman, G. M. 1979 : Differences in size distributions of populations of particles among sands of various origins : addendum to ISA Presidential Address. *Sedimentology* Vol. 26 No.6 pp.859 - 862.
- Friedman, G. M. 1958 : Determination of sieve-size distribution from thin-section data for sedimentary petrological studies. *Jour. Geol.* Vol.66 No.4 pp.394 - 416.
- Friedman, G. M. and Sanders, J. E. (eds.) 1978 : Principles of Sedimentology. John Wiley and Sons., New York p.792.
- Friedman, G. M. 1964 : Early diagenesis and lithification in carbonate sediments. *Jour. Sed. Petrol.* Vol.34 No.4 pp. 777 - 813.
- Friedman G. M. 1971 : Staining. In : Carver, R. E. (ed.) Procedure in Sedimentary Petrology. Wiley-interscience, John Wiley & Sons. Inc. Newyork, London, Sydney pp.511 - 530.
- Fryberger, S. G. 1980 : Dune forms and wind regime. In: E. D. McKee (ed.) A study of global sand seas. Castle House Publication Ltd. (U.K.) pp.141 - 169.
- Fyfe, W. S. and Bischoff, J. L. 1965 : The calcite-aragonite problem *Soc. Eco. Paleont. Miner. Spec. Pub.* 13 pp. 3 - 13.
- Ganpathi, S and Merh, S. S. 1986 : Depositional model of Gopnath-Mahuva coast miliolites. *Nat. Workshop on Quat. Carb. and miliolite problem of Gujarat P.R.L. Ahmedabad (Abs.)* pp. 49 - 51.
- Ganpathi, S., Desai, S. J., and Merh. S. S. 1985 : Significance of Narmada Geo fracture in Quaternary history of Gujarat Coast. *Proc. Symp. Quat. Episodes. Geol. Dept. M.S.U. Baroda* pp.97 - 108.
- Gardner, R. A. M. 1983 : Aeolianites In : A. S. Gaudie and K. Pye (ed.) Chemical Sediments and Geomorphology. Precipitates and residue on the near surface environment; Academic Press. Inc. London pp.265 - 300.
- Gavish, E. and Friedman, G. M. 1969 : Progressive diagenesis in Quaternary to Late Tertiary carbonate sediments : Sequence and time scale. *Jour. Sed. Petrol.*, Vol. 39 NO.3 pp.980 - 1006.
- Ginsburg, R. N. 1953 : Early diagenesis and lithification of shallow-water carbonate sediments in South Florida. In : Regional Aspects of carbonate deposition. *Soc. Eco. Palaeont. Min. Sp. Pub.* 5 pp. 80 - 100.

- Glennie, K. W. 1970 : Desert Sedimentary Environments. *Developments in Sedimentology Vol.14 Elsevier* p.222.
- Glennie, K. W. and Evamy, B. D. 1968 : Dikaka : Plants and plant-root structures associated with aeolian sand. *Palaeogeography, Palaeoclimatology, Palaeoecology. Vol.4* pp. 77 - 87.
- Goudie, A. S. 1983 : Calcrete. In: A.S.Goudie and K.Pye (eds.) Chemical sediments and Geomorphology. Precipitates and residue on the near surface environment; Academic Press Inc. London pp.92 - 131.
- Grabau, A. W. 1904 : On the classification of sedimentary rocks. *Amer. Geologist, Vol. 33* pp. 228 - 247.
- Grabau, A. W. 1913 : Principles of Stratigraphy. *Seiler, New York* p.1185
- Goudie, A. S. and Sperling, C. H. B. 1977 : Long distance transport of foraminiferal tests by wind in the Thar Desert, Northwest India. *Jour. Sed. Petrol. Vol.47 No.2* pp. 630 - 633.
- Goudie, A.S., Allchin, B. and Hegde, K.T.M. 1973 : The former extension of the Great Indian Thar Desert. *Geog. Jour. Vol. 139* pp.243 - 257.
- Govindan, P. R., Lele, V. S., Rajaguru. S.N. and Marathe. A.R.C. 1977 : Dating of the miliolite by Ca/Mg ratio. *Archaeological Studies. Vol.2* pp. 25 - 29.
- Govindan, P. R., Lele. V. S. and Rajaguru, S. N. 1975 : Quaternary formation of the lower Hiran valley. *Bulletin of the Deccan College, Poona Vol.35 1-2* pp. 123 - 137.
- Griffin, G. M. 1971 : Interpretation of X-ray diffraction data In: R.E.Carver (ed.) Procedures in sedimentary petrology. John Wiley & sons pp.541 - 569.
- Gross, M. G. 1964 : Variations in the O^{18}/O^{16} and C^{13}/C^{12} ratios of diagenetically altered limestones in the Bermuda Islands. *Jour. Geol. Vol. 72* pp. 170 - 194.
- Gupta, S. K. 1977 : Quaternary Sealevel changes on the Saurashtra Coast. *Ecology and Archaeology of W.India, concept, Delhi* pp.181 - 193.
- Gupta, S. K. 1991 : $^{230}Th/^{234}U$ and ^{14}C dating of Quaternary carbonate deposits of Saurashtra, India - Comments. *Chem. Geol. (Isotope Geosci. Sect.) Vol.86* pp.179 - 186.
- Gupta, S. K. and Amin, B. S. 1974 : Io/U Ages of Corals from Saurashtra Coast. *Marine Geology Vol. 16 W* pp. 79 - 83.
- Gupta, S. K. 1972 : Chronology of the raised beaches and inland coral reefs of the Saurashtra Coast. *Jour. of Geology, Vol.80* pp.357 - 361.

- Gygi, R. A. 1969 : Zur Stratigraphie der Oxford-Stufe (oberes Jura-system) der Nordschweiz und des Suddeutschen Grenzgebietes. *Beitr. Geol. Karte der Schweiz, N.F.* 136 p. 123.
- Hanor, J. S. 1978 : Precipitation of beachrock cement : Mixing of marine and meteoric waters Vs. CO₂ degassing. *Jour. Sed. Petrol.* Vol.48 pp. 489 - 501.
- Hardas, M. G. and Merh, S. S. 1968 : On the nature and origin of miliolite like arenaceous limestone of Kutch. *Jour. Ind. Geosci. Assoc. Hyderabad*, Vol.8 pp.51 - 56.
- Hardas, M. G. and Patel M. P. 1984 : Coastal sands of Saurashtra and their environmental significance. *Proc. Symp. Quat. Episodes in India. Dept. Geol. M.S.U. of Baroda* pp.247 - 258.
- Harris, W. H. and Matthews, R. K. 1968 : Subaerial Diagenesis of carbonate sediments : efficiency of the solution - precipitation process. *Science, Vol.160* pp.77 - 79.
- Harrison, R. S. 1977 : Caliche profiles : indicators of near-surface subaerial diagenesis. Barbados, West Indies. *Bull. Canad. Petrol. Geol.* Vol. 25 pp. 123 - 173.
- Hay, R. L. and Reeder, R. J. 1978 : Calcretes of olduvai Gorge and the Ndolanya Beds of Northern Tanzania. *Sedimentology, Vol.25* pp.649-673.
- Hay, R. L. and Wiggins, B. 1980 : Pellets, ooids, sepiolite and silica in three calcretes of the Southwestern United States. *Sedimentology, Vol.27* pp.559 - 576.
- Hegde, K. T. M. 1982 : The late Quaternary history of the Great India Desert. *Jour. M. S. Uni. Baroda* pp.39 - 57.
- Heim, A. 1916 : Monographie der churfürsten Mattstock-Gruppe.3 Lithogenesis. *Beitr. Geol. Karte Schweis, N.F.* Vol.20 pp.369 - 662.
- Hiltermann, H. 1966 : Klassifikation rezenter Brack-und Salinar - wasser in innerer Anwendung fur fossile Bildungen. *Z. Dtsch. Geol. Ges., Vol. 115 No. 2 - 3* pp. 463 - 496.
- Holmes A. 1978 : Holmes Principles of Physical Geology. (Revised by D.L.Holmes) ELBS and Nelson, London 3rd edition p.730.
- Hotzl, H. 1966 : Zur kenntnis des tressensteinkalkes (ober-Jura, Nordliche Kalkalpen) *N.Jb. Geol. Palaont. Abh.* Vol.123/3 pp.281 - 310.
- Inman, D. L. and Nordstrom, C. E. 1971 : On the tectonic and morphologic classification of coasts. *Jour. Geol.* Vol. 79 pp.1 - 21.
- Hussain, N., Bhandari, N., Ramnathan, K. R. and Somayajulu, B. L. K. 1980 : Age of Saurashtra miliolites by U-Th decay series methods: Possible implications to their origin. *Proc. Ind. Acad. Sci. (Earth Planet Sci.) Vol.89/1*, pp. 23 - 29.

Ireland, H. A. 1971 : Insoluble Residues. In: R. E. Carver (ed.) Procedures in sedimentary petrology. Wiley-intersciences, John Wiley & Sons. pp. 479 - 498.

Jackson, T. A. and Bischoff, J. L. 1971 : The influence of amino acids on the kinetics of the recrystallisation of aragonite to calcite. *Jour. Geol. Vol.79* pp.493 - 497.

James, N. P. and Choquette, P. E. 1984 : Diagenesis 9 : Limestones - The meteoric diagenetic environment. *Geoscience Canada, Vol. 11* pp.161 - 194.

Johnson, K. M. 1960 : TL in biogenic Ca-carbonate. *Jour. Sed. Petrol. Vol.30* pp.305 - 313.

Jordan, R. 1971 : Zur salinitat des Meeres in hoheren Ober-Jura Nordwest Dentsch sands. *Z. Dtach. Geol. Ges. Vol. 122* pp.231 - 241.

Kale, V. S. and Rajaguru, S. N. 1985 : Neogene and Quaternary transgressional and regressive history of the West coast of India *Bull. Deccan College Res. Inst. Vol.44* pp. 153 - 165.

Krishnan, M. S. 1968 : Geology of India and Burma. Higginbothams (P) Ltd., Madras. p.536.

Krinsley, D. H. and Donahue, J. 1968 : Environmental interpretation of sand grain surface textures by electron microscopy. *Geol. Soc. Ame. Bull. Vol. 79* pp. 743 - 748.

Krumbein, W. C. 1935 : Thin-section mechanical analysis of indurated sediments. *Jour. Geol. Vol.43 Chicago.* pp.482 - 496.

Krumbein, W. C. 1942 : Physical and chemical changes in sediments after deposition. *Jour. Sed. Petrol Vol.12* pp.111 - 117.

Kukla, G. I. 1977 : Pleistocene Land-Sea correlation in Europe. *Earth Sci. Res. Vol. 13* pp.307 - 374.

Land, L. S. 1967 : Diagenesis of Skeletal carbonates. *Jour. Sed. Petrol. Vol.37* pp.914 - 930.

Land, L. S. 1973 : Holocene meteoric dolomitization of pleistocene Limestones, North Jamaica. *Sedimentology, Vol.20* pp.411 - 424.

Land, L. S. and Epstein, S. 1970 : Late Pleistocene diagenesis and dolomitisation, North Jamaica. *Sedimentology, Vol.14* pp.187 - 200.

Land, L. S., Mackenzie, F. T. and Gould, S. J. 1967 : The pleistocene history of Bermuda. *Geol. Soc. Ame. Bull. Vol.78* pp.993 - 1006.

Lele V. S. 1973 : The miliolite limestone of Saurashtra (W. I.) *Sedimentary Geology Vol.10* p.301-10.

- Longman, M. W. 1980 : Carbonate diagenetic textures from near surface diagenetic environments. *Amer. Assoc. Petrol. Geol. Bull.* Vol.64/4 pp.461 - 489.
- Lyell, C. H. 1855 : A manual of elementary geology. 5th edition, London. p.655.
- Marathe, A. R. 1981 : Geoarchaeology of the Hirar Valley, Saurashtra, India. *Deccan College and G. Research Inst. Pune Publication* p.130.
- Marathe, A. R., Rajaguru, S. N. and Lele, V. S. 1977 : On the problem of the origin and age of the miliolite rocks of the Hirar Valley, Saurashtra, W. India. *Sedimentary Geology Vol.19* pp.197 - 215.
- Mathur, U. B. 1978 : Studies on the Quaternary carbonates of Southern Saurashtra with Sp. Ref. to the miliolite problem. *Ph.D. Thesis, M. S. Uni. of Baroda (Unpub.)* p.244.
- Mathur, U. B. 1987 : Palaeowind analysis of Quaternary aeolianites of Southern Saurashtra, Gujarat. *Records Geol. Surv. India Vol.113(7)* pp.79 - 84.
- Mathur, U. B. and Mehra, S. 1975 : Report on the Quaternary deposits of Probandar area, Junagadh Dist. Gujarat. *Progress Report Geol. Surv. India for 1974-75 (Unpub.)*
- Mathur, U. B., Verma, K. K. and Mehra, S. 1986 : Quaternary Stratigraphy of Southern Saurashtra, Gujarat. *Nat. workshop on Quat. Carb. & Miliolite Problem of Gujarat. P.R.L., Ahmedabad (Abst)* pp.1 - 4.
- Matthews, R. K. 1968 : Carbonate diagenesis : Equilibration of sedimentary mineralogy to the Subaerial environment; coral cap of Barbados, West Indies. *Jour. Sed. petrol. Vol.38* pp.1110 - 1119.
- Matthews, R. K. 1974 : A process approach to diagenesis of reef associated limestones. In: L.F. Laporte (ed.) *Reefs in Time & Space. SEPM spec. Pub. 18. Tulsa*, pp.234 - 256.
- McKee, E. D. 1966 : Structures of dunes at white sands national monument, New Mexico (And a comparision with structures of dunes from other selected areas). *Sedimentology, Vol.7 No.1* pp.1 - 69.
- McKee, E. D. 1980 : Sedimentary Structures in dunes. In: E. D. McKee (ed.) *A study of Global sand seas. Castle House Pub. Ltd. (U.K.)* pp.87 - 134.
- McKee, E. D. and Gutschick, R. C. 1969 : History of Rewall limestone of Northern Arizona. *Geol. Soc. Amer. Mem. Vol.144* pp.1 - 26.
- Merh, S. S. 1980 : The Miliolite Problem. *Presidential address, Sixty seventh session of the Indian science cong., section of Geol. and Geog., Calcutta.* p.42.

- Merh, S. S. 1987 : Quaternary sealevel changes : The present status vis-a-vis records along coasts of India. *Ind. Jour. Earth Sci.* Vol.14 No.3-4. pp.235 - 251.
- Merh, S. S. and Ganpathi, S. 1985 : Tectonic frame-work of Saurashtra Peninsula and its neotectonic manifestation. *Current Trends in Geology Vol.17 Today & Tomorrow's Print - Pub. New Delhi* pp.175 - 195.
- Metzger, W. J. and Bernard, W. M. 1968 : Transformation of aragonite to calcite under hydrothermal conditions. *Ame. Mineral. Vol.53* pp.295 - 299.
- Meyers, J. H. 1987 : Marine vadose beach rock cementation by cryptocrystalline magnesian calcite - Maui, Hawaii. *Jour. Sed. Petrol. Vol.57* pp.558 - 570.
- Milliman, J. D. 1974 : Marine Carbonates. *Springer - Verlag, Berlin-Heidelberg-NewYork* p.375
- Moore, C. H. Jr. 1973 : Intertidal carbonate cementation. Grand cayman, West Indies. *Jour. Sed. Petro. Vol 43* pp.591 - 602.
- Moore, W. S. 1982 : Late Pleistocene Sea-level history. In : M. Ivanovich and R. S. Harmon (eds.) *Uranium series Disequilibrium: Application to Environmental Problems. Clarendon, Oxford* pp.481 - 496.
- Morner, N. A. 1983 : Sea levels. In: R. Gardner and H. Scoging (eds.) *Meg. Geomorphology. Oxford* pp.74 - 91.
- Morse, J. W. and Mackenzie, F. T. 1990 : Geochemistry of Sedimentary carbonates. *Dev. in Sedimentology, Vol.48 Elsevier* p.707.
- Muller, G. 1971 : Gravitational cement : An indicator for the vadose zone of the subareial diagenetic environment. In: Bricker, O. P. (ed.) *Carbonate Cements. John Hopkins Uni. Press, Baltimore* pp.301 - 302.
- Nair, R. R. 1971 : Beachrock and associated carbonate sediments on the fifty fathom flat. A submarine terrace on the outer continental shelf off Bombay. *Proc. Ind. Acad. Sci. Vol.73 Sect. B* pp.148 - 155.
- Nair, R. R. 1974 : Holocene Sea levels in the Western Continental Shelf of India. *Proc. Ind. Acad. Sci. Vol. 79 (B-5)* pp.197 - 203.
- Nair, R. R. 1975 : Nature and origin of small scale topographic prominences on the western continental shelf of India. *Ind. Jour. Marine Sci. Vol.4* pp.25 - 29.
- Nair, R. R. and Hashimi, N. H. 1980 : Holocene climatic inferences from the sediments of the Western Indian continental shelf. *Proc. Ind. Acad. Sci. Vol. 89 No.3* pp.299 - 315.

- Nair, R. R., Hashimi, N. H. and Gupta, M. V. S. 1979 : Holocene limestones of part of the western continental shelf of India. *Jour. Geol. Soc. India Vol.20* pp.17 - 23.
- Nair, R. R., Hashimi N. H. and Rao, V. P. C. 1982 : Distribution and dispersal of clay minerals on the western continental shelf of India. *Marine Geology, Vol. 50* pp.M₁ - M₉.
- Nambi, K. S. V. and Mitra, S. 1978 : TL investigations of old carbonate sedimentary rocks. *Jarb. Miner. Abh. Vol.133 No.2* pp.210 - 220.
- Nigam, R., Henriques, P. and Wagh, A. B. 1991 : Barnacle fouling on relict foraminiferal specimens from the western continental margin of India : An indicator to paleo-sea level. *Int. Symp. Ocean. of the Indian Ocean NIO, Goa (Abs.)* pp.56 - 57.
- Niyogi, D. 1968 : Morphology and evolution of Subarnrekha delta, India. *Saetryk Geog. Tridskrith Vol.67* pp.230 - 241.
- Niyogi, D. 1971 : Morphology and evolution of the Balasore shoreline, Orissa. *Studies in earth sciences (West Com. Vol.)* pp.289 - 304.
- Oldershaw, A.E. and Scoffin, T.P. 1967 : The source of ferroan and non ferroan calcite cements in the Halkim and Wenlock limestones. *Jour. Geol. Vol.5* pp.309 - 320.
- Pascoe, E.H. 1964 : A manual of Geology of India and Burma Vol.3 *Geol. Surv. Ind.* pp.1345 - 2130.
- Pandya, K. B. 1985 : Biogenic carbonate sands of Saurashtra. *Ind. Jour. Earth Sciences. Vol.12 No.4* pp.279 - 288.
- Pandya, K. B. and Bastani. B. 1986 : Nature of miliolite allochems. *Nat. workshop on Quat. Carb. and miliolite problem of Gujarat, P.R.L., Ahmedabad, (Abs.)* pp.12 - 14.
- Patel, M. P. 1991 a : Quaternary strandlines in Gujarat. *Proc. Quat. Landscape of Indian Subcontinent. Geol. Dept. M.S.U. Baroda*, pp.107 - 118.
- Patel, M. P. 1991 b : Depositional environment of the inland miliolite occurrences of Saurashtra and Kutch. *Proc. Quat. Landscape of Indian subcontinent. Geol. Dept. M.S.U. Baroda*, pp.119 - 129.
- Patel, M. P. and Allahabadi, B. B. 1988 : The aeolianites of Kutch with special reference to their diagenesis. *Proc. Quat. Stud. India, M.S.U. Baroda* pp.37 - 63.
- Patel, M. P. and Bhatt, N. 1992 a : Evidences for aeolian origin of miliolite rocks of Kutch and Saurashtra, Western India. *Int. Sem. Rec. Trends of Res. in Earth Sci. Presideney coll. Calcutta (extd.Abs.)* pp.8 - 9.

- Patel, M. P. and Bhatt, N. 1992 b : Role of eustasy in Quaternary desertification in Gujarat and Rajasthan, Western India. *Int. Symp. Evol. Deserts, P.R.L. Ahmedabad (extd. Abs.)* pp.126 - 129.
- Patel, M. P. and Bhatt, N. 1992 c : Evidences of fluctuations in palaeoclimate in the miliolite rocks of Saurashtra, Western India. *Palaeo (3), Elsevier Science Pub. (under revision)*
- Patel, M. P., Bhatt, N. and Murthy, K. V. R. 1992 : TL studies of Quaternary biogenic carbonate deposits of Saurashtra, Western India. In: K. V. R. Murthy, L. H. H. Prasad & T. R. Joshi (eds.) *Thermoluminescence and its Applications. McGraw-Hills Pub. Co. Ltd., New Delhi* pp.137 - 144.
- Patel, M. P. and Desai, S. J. 1988 : Environmental significance of fossil sand dunes of North Gujarat. *Proc. Nat. Sem. Rec. Quat. Studies in India. Dept. of Geol. M.S.Uni. Baroda* pp.139 - 154.
- Patel, M. P., Patel, S. G. and Merh, S. S. 1985 : Geomorphic evidences of Quaternary sea-level changes in Mahi-Tapti coastal segment of Gujarat. *Proc. Symp. Quat. Episodes Dept. of Geol. M. S. Uni. Baroda* pp.49 - 62.
- Pethick, J. 1984 : An introduction to coastal geomorphology Arnold - Heinmann, London p.260.
- Peryt, T. M. C. 1983 : Vadoids. In: T. M. Peryt (ed.) *Coated Grains. Springer-verlag Berlin, Heidelberg* pp.437 - 449.
- Pettijohn, F. J. 1957 : Sedimentary Rocks 2nd edition. Harper and Row, New York pp.718.
- Pilgrim, M. 1908 : Geology of Persian Gulf & adjoining portions of Persia and Arabia. *Hem. Geol. Surv. India Vol.34 Pt.4* p.170.
- Plummer, L. N., Vacher, H. L., Mackenzie, F. T., Bricker, O. P. and Land, L. S. 1976 : Hydrogeochemistry of Bermuda : A case history of ground-water diagenesis of biocalcareous. *Geol. Soc. Amer. Bull. Vol.87* pp.1301 - 1316.
- Purdy, E. G. 1968 : Carbonate diagenesis an environmental survey. *Geol. Romana, Vol.7* pp.183 - 228.
- Rajaguru, S. N. and Marathe, A. R. 1977 : Miliolite Formation in the Hirn valley. *Ecology and Archaeology of W.India. concept, Delhi* pp. 209 - 216.
- Rao, V. P. C. 1990 : On the occurrence of caliche pisolithes from the western continental shelf of India. *Sed. Geol. Vol.69* pp.13 - 19.
- Read, J. F. 1974 : Calcrete deposits and Quaternary sediments, Edel province, shark Bay, Western Australia. *Ame. Assoc. Petrol. Geol. Hem. Vol.22* pp. 250 - 282.

- Reineck, H. E. and Singh, I. B. 1980 : Depositional sedimentary environments. Second edition. Springer - Verlag, Berlin Heidelberg New York p.549.
- Richter, D. K. 1983 : Calcareous Ooids : A synopsis. In: T. M. Peryt (ed.) Coated Grains. Springer - Verlag, Berlin Heidelberg. pp.71 - 99.
- Rosenfeld, M. A., Jacobsen, L. and Ferm, J. C. 1953 : A comparison of sieve and thinsection technique for size analysis. *Jour. Geol.*, Vol.61 pp. 114 - 132.
- Russell, R. J. 1964 : Duration of the Quaternary and its sub-division. *Proc. Nat. Acad. Amer.* Vol.52 pp.790 - 796.
- Sahu, B. K. 1983 : Multigroup discrimination of depositional environments using size distribution statistics. *Ind. Jour. Earth Sci.* Vol.10 No.1 pp. 20 - 29.
- Samba Siva Rao, M. 1982 : Morphology and evolution of modern cauvery delta, Tamilnadu, India. *Trans. Ind. Inst. Geog.*, Vol. 4/1 Pune pp. 67 - 78.
- Sankaran, A. V., Sunta, C. M., Nambi, K. S. V., and Bapat, V. N. 1980 : Thermoluminescence studies in Geology. *BARC Report* - 1060. p.96.
- Sastri, V. V. and Pant, S. C. 1959 : Survey of coastal areas for collecting specimens of beach rocks, miliolite etc. for the study of change of sea level. *Progress Report, G.S.I.*, field season 1957-58 (unpub.)
- Sastri. V. V. and Pant, S. C. 1960 : Foraminifers from the miliolites of Saurashtra. *Proc. Ind. Sci. Congress 47th Session, III. (Abs.)*
- Schmalz, R. F. 1971 : Beach rock formation at Eniwetok Atoll In: O. P. Bricker (ed.) Carbonate Cements. John Hopkins Univ. Press Baltimore, M.D. pp.17 - 24.
- Schmidt, H. 1956 : Zur rangordnung der Faziesbegriffe. *Mitt. Geol. Ges. Wien.* Vol. 49 pp.333 - 345.
- Schneider, W. 1977 : Diagenese devonischer karbonatkomplexe Mitteleuropas *Geol. Jahrbuch Ser. D.21*, p.107.
- Scholle, P. A., Stemmerik, L. and Ulmer, D. S. 1991 : Diagenetic History and Hydrocarbon Potential of Upper Permian carbonate Buildups, Wegener HalvØ Area, Jameson land Basin, East Greenland. *Ame. Assoc. Petrol. Geol. Bull.* Vol.75/4 pp.701 - 725.
- Scoffin, T. P. 1987 : An introduction to carbonate sediments and Rocks. Blackie and Sons Ltd. London; Chapman and Hall. N.York p.274.
- Scoffin, T. P. and Stoddart, D. K. 1983 : Beach rock and intertidal cements. In: Goudie, A. S. & Pye, K. (eds.) Chemical sediments and Geomorphology. Academic Press, London. pp.401 - 425.

- Shackleton, N. J. and Opdyke, N. D. 1973 : Oxygen isotope and paleomagnetic stratigraphy of Equatorial Pacific core V.28 - 238. *Quat. Research Vol.3* pp.39 - 55.
- Shrivastava, P. K. 1963 : Geology of Saurashtra (Complied) *O.N.G.C. Report (Unpub.)*
- Shrivastava, P. K. 1968 : A note on the Quaternary geology of Saurashtra Peninsula. *Quart. Jour. Geol. Min. Met. Soc. Ind. Vol.40 No.2* pp.55 - 64.
- Shrivastava P. K. 1968 : Petrography and Origin of Miliolite limestone of W. Saurashtra Coast. *Jour. Geol. Soc. India Vol.9* pp.88-96
- Shrock, R. R. 1948 : Sequence in layered rocks. *McGraw-Hills Book Co., New York* p.507.
- Siesser, W. G. 1973 : Diagenetically formed Ooids and intraclasts in South African Calcretes. *Sedimentology, Vol.20* pp.539 - 551.
- Siever, R. 1979 : Plate-tectonic controls on diagenesis. *Jour. Geol. Vol.87* pp. 127 - 155.
- Sood, R. K., Subramanyan, V. and Sahai, B. 1981 : Quaternary Geomorphology of Kathiawar coast. *Recent researches in Geology, Hindustan Pub. Co. Delhi Vol.9* pp.3 - 12.
- Sperling, C. H. B. and Goudie, A. S. 1975 : The miliolite of Western India : A discussion of the aeolian and marine hypotheses. *Sedimentary Geology Vol.13* pp.71 - 75.
- Steel, R. J. 1974 : Cornstone (fossil caliche). Its Origin, stratigraphic and sedimentological importance in the New Red Sandstone, W. Scotland. *Jour. Geol. Vol.82* pp.351 - 369.
- Steinen, R. P. and Matthews, R. K. 1973 : Phreatic Vs Vadose diagenesis -Stratigraphy and mineralogy of a cored bore hole on Barbados, West Indies. *Jour. Sed. Petrol. Vol. 43* pp.1012 - 1020.
- Stoddart, D. R. and Cann, J. R. 1965 : Nature and Origin of Beach rocks. *Jour. Sed. petrol. Vol.35 No.1* pp.243 - 247.
- Subramanyan, V., Sood, V. R. K., and Gopinath, A. K. 1990 : Geomorphological indicators of sea level changes as deciphered from remote sensing data. In: G. V. Rajamanickam (ed.) sea level variation and its impact on coastal environment. pp.327 - 328.
- Surdam, R. C. and Stanley, K. O. 1979 : Lacustrine sedimentation during the culminating phase of Eocene, Lake Gosiute, Wyoming (Green River Formation) *Geol. Soc. Am. Bull. Vol. 90* pp.3 - 110.

- Swineford, A., Leonard, A. B. and Frye, J. C. 1958 : Petrology of the Pliocene pisolithic limestone in the Great Plains. *Kansas Geol. Surv. Bull.* Vol.130 pp.97 - 116.
- Taft, W. H. 1967 : Physical chemistry of formation of carbonates. in: G. V. Chilingar, H. J. Bissell and R. W. Fairbridge (eds.) *Carbonate Rocks*. Elsevier Pub. Co. Amsterdam pp.151 - 168.
- Teichert, C. 1970 : Dolite, Dolith, Doid : Discussion. *Ame. Assoc. Petrol. Geol. Bull.* Vol.54 p.1748 - 1749.
- Thorstenson, D. C., Mackenzie, F. T. and Ristvet, B. L. 1972 : Experimental vadose and phreatic cementation of skeletal carbonate sand. *Jour. Sed. Petrol* Vol. 42 pp. 162 - 167.
- Twidale, C. R. 1976 : Analysis of landforms. John Wiley & Sons. p.572.
- Ubaldo, M. D. L. 1961 : Petrographia dos calcarenitos do distrito de diu. *Estudos geologicos a India Portuguesa*, Vol. I pp.1-12.
- Vaidyanadhan, R. 1981 : Sealevels. *Information Bull. I.G.C.P. Pr.* 61, Vol. 5 pp.1 - 5.
- Verma K. K. 1979 : Contribution to the study of the Quaternary sediments of Southern Saurashtra coast, Gujarat with sp. ref. to the microfauna and sea level change. *Ph.D. Thesis, M. S. Uni. Baroda* (Unpub.) p.429.
- Verma, K. K. and Mathur, U. B. 1977 : Data from field and laboratory analysis on the problem of the origin of Saurashtra miliolite. In: D. P. Agrawal and B. Pande (eds.) *Ecology and Archaeology of Western India*. Concept, Delhi. pp.225 - 232.
- Verma, K. K. and Mathur, U. B. 1978 : High stands of Quaternary Sea along the Western coast of India - A new area for the test of glacio-eustasy in Asia. *Proc. IIIrd Reg. Conf. Geol. Min. Resources of SE. Asia*. pp.113 - 118.
- Verma, K. K., Mathur, U. B. and Misra, K. S. 1975 : Report on the study of Quaternary sediments of Saurashtra and their bearing on Quaternary marine transgression. *Prog. Rept. Geol. Surv. India* (Unpub.)
- Von Guembel, C. W. 1868 : Geognostische Beschreibung des ostbayerischen Grenzgebirges, I-III p.700.
- Walther, J. 1894 : Einleitung in die Geologie als historische wissenschaft. Fischer, Jena p.1055.
- Wardlaw, N. C. and Reinson, G. E. 1971 : Carbonate and evaporite deposition and diagenesis, Middle Devonian winnipegosis and Prairie Evaporite Formations of South - Central Saskatchewan. *Bull. Ame. Assoc. Petrol. Geol.* Vol.55 pp.1759 - 1786.