[参 考 文 献]

1. 秋元和實・長谷川四郎（1989）：日本近海における現生底生有孔虫の深度分布ー古水深尺度の確立に向けてー．地質学論集、第32号、229-240.
2. Aubry, M.-P. (1985): Handbook of Cenozoic Calcareous Nannoplankton. Micropaleontology Press, American Museum of Natural History.
3. Aubry, M.-P. (1986): Paleogene Calcareous Nannoplankton Biostratigraphy of Northwestern Europe. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 55,267-334.
4. Backman, J., Schneider. D.A., Rio, D. and Okada, H. (1990): Neogene low-latitude magneto- stratigraphy from Site 710 and revised age estimates of Miocene nannofossil datum events. In Duncan. R. A., Backmann, J., Peterson, L. C., et al., Proc. ODP, Sci. Results, 115: College Station, TX (Ocean Drilling Program), 217-276.
5. Berggren, W, A., Kent, D. V., Swisher, III, C. C., and Aubry, M.-P. (1995): A revised Cenozoic geochoronology and chronostratigraphy. SEPM Special Publication, No. 54, 129-212.
6. Blow, W. H. (1969): Late Middle Eocene to Recent Planktonic Foraminiferal Biostratigraphy. In Brönnimann, P. and Renz, H. H., (eds.), Proc. 1st Internat. Conf. Planktonic Microfossils, Geneva (1967). Leiden, E. J. rill.,1, p. 199-422, 54 Pls.
7. Bolli,H.M. and Saunders, J.B. (1985): Oligocene to Holocene low latitude planktic foraminifera. Plankton Stratigraphy 155-261.
8. Cande, S. C. and Kent, D. V. (1995): Revised calibration of the geomagnetic polarity timescale for the Late Cretaceous and Cenozoic. Jour. Geophys. Res., 100, 6093-6095.
9. Caron, M. (1985): Cretaceous planktic foraminifera. In, H. M. Bolli, J. B. Saunders and K. Perch-Nielsen(Editors), Plankton Stratigraphy, Cambridge Univ. Press, 17-86.
10. Dunham, R. J. (1962): Classification of carbonate rocks according to depositional texture. In; Ham, W. E. (ed.) *Classification of carbonate rocks*. American Association of Petroleum Geologists, Memoir 1, 108-121.
11. Felix M.Gradstein,Frits P.Agterberg,James G.Ogg,Jan Hardenbol,Paul Van Veen,Jacques Thierry and Zehui Huang (1995): A Triassic,Jurassic and Cretaceous Time Scale. Geochronology time Scales and Global Stratigraphic Correlation, SEPM Special Publication No. 54. p. 95-126.

12. Gartner, S. (1992): Miocene nannofossil chronology in the North Atlantic, DSDP Site 608: Marine Micropaleontology, 18, 307-331.
13. 長谷川四郎・秋元和實・北里　洋・的場保望 (1989): 底生有孔虫にもとづく日本の後期新生代古水深指標. 地質学論集,32,241-253.
14. Haskin, L. A., Haskin M. A. Ferey F. A. and Wildman, T. R. (1968) Relative and absolute terrestrial abundance of the rare earth. In Ahrens L. H. (ed) Origin and distribution of the elements, Vol. 1 Pergamon, Oxford, 889-911.
15. 井上洋子 (1980): 日本周辺海域の現生有孔虫の生態学的研究. 技研特報,41-1&2.
16. Inoue, Y. (1989): Northwest Pacific foraminifera as paleoenvironmental indicators. Sci. Rep. Inst. Geosci., Univ. Tsukuba, Ser B, vol. 10, 57-162.
17. JICA and MMAJ (1988): Ocean Resources Investigation in the Sea Area of CCOP/SOPAC Report on the Joint Basic Study for the Development of Resources (volume 3), Sea Area of Kiribati, 184p.
18. JICA and MMNA (1990): Ocean Resources Investigation in the Sea Area of CCOP/SOPAC Report on the Joint Basic Study for the Development of Resources (volume 5), Sea Area of Republic of Kiribati, 178p.
19. JICA and MMAJ (1992): Ocean Resources Investigation in the Sea Area of SOPAC Report on the Joint Basic Study for the Development of Resources (volume 2), Sea Area of the Republic of Kiribati, 176p.
20. Kennett, J.P. and Srinivansan, M.S. (1983): Neogene planktonic foraminifera. Hutchnson Ross Publishing Company, 265p.
21. Murray, J.W. (1991): Ecology & Paleoecology of Benthic Foraminifera. 397p.
22. Martini, E. (1971): Standard Tertiary and Quaternary calcareous nannoplankton zonation. In Farinacci, A. (Ed.), Proc. 2nd Planktonic Conf. Roma, 1970 Proc. 2: Roma (Tecnoscienza), 738 - 785.
23. Okada, H. (1999): Neogene and Quaternary calcareous nannofossils from the Blake Ridge Sites 994, 995 and 997. *In Proc. ODP, Sci. Results*, 164.
24. Okada, H. and Bukry, D. (1980): Supplementary modification and introduction of code numbers to the low-latitude coccolith biostratigraphic zonation. Marine Micropaleontology, 5, 321-325.
25. Olafsson, G. (1991): Quantitative calcareous nannofossil biostratigraphy and biochronology of early through late Miocene sediment from DSDP Hole 608. *Meddeleser Stockholm University Institute of Geology and Geochemistry*, 283, 1-122.
26. Perch-Nielsen, K. (1985): Cenozoic calcareous nannofossils. In, H. M. Bolli, J. B. Saunders and K. Perch-Nielsen (Editors), Plankton Stratigraphy, Cambridge Univ.

Press, 427-554.

27. Poore, R. Z., Tauxe, L., Percival, Jr., S. F., Labrecque, J. L., Wright, R., Petersen, N. P., Smith, C. C., Tucker, P. and Hsu, K. J. (1984): Late Cretaceous-Cenozoic magnetostratigrphy and biostratigraphic correlations of the South Atlantic Ocean: Washington, D. C., *Initial Reports of the Deep Sea Drilling Project,* 73, 645-656.
28. Pujos, A. (1987): Late Eocene to Pleistocene Medium-Sized and Small-Sized "Reticulofenestrids". In Stradner, H. and Perch-Nielsen, K. (Ed.), Proc, Int. Nannoplankton Assoc. Meeting, Vienna 1985. Abh. Geol. Bundesanst., 39, 239-277.
29. Raffi, I. and Flores, J. -A. (1995): Pleistcene through Miocene calcareous nannofossils from eastern equatorial Pacific Ocean (Leg 138). *In* Pisias, N. G., Mayer, L. A., Janecek, T. R., Palmer-Julson, A. and van Andel, T. H. (Eds.), *Proc. Ocean Drilling Program, Sci. Results*, 138, 233-286.
30. Rio, D., Fornaciari, E. and Raffi, I. (1990): Late Oligocene through early Pleistocene calcareous nannofossils from western Indian Ocean (Leg 115). *In* Duncan, R. A., Backman, J., Peterson, L. C., et al., *Proc. ODP, Sci. Results*, 115 : College Station, TX(Ocean Drilling Program), 175-236.
31. **佐藤時幸**, 2000 : **微化石からみた日本海側油田地域の古環境変遷と油田の形成. 石油学会誌** 43(3), 173 - 181.
32. **佐藤時幸・亀尾浩司・三田　勲** (1999) : **石灰質ナンノ化石による後期新生代地質年代の決定精度とテフラ層序. 地球科学** 53(4), 265-274.
33. Sato, T., Kameo, K. and Takayama, T. (1991): Coccolith biostratigraphy of the Arabian Sea. In Prell, W. L., Niitsuma, N., *et al.*, Proc.ODP, Sci. Results, 117: College Station, TX (Ocean Drilling Program), 37-54.
34. Sato, T., Saito, T., Takahashi, H., Kameo, K., Sato, Y., Osato, C., Goto, T., Higashi, D. and Takayama, T. (1998): Preliminary report on The Geographical distribution of the cold water nannofossil Coccolithus pelagicus (Wallich) Schiller during The Pliocene to Pleistocene. J. Min Coll. Akita Univ., Ser. A, 8, 33-48.
35. 佐藤時幸・高山俊明 (1988): 石灰質ナンノプランクトンによる第四系化石帯区分. 地質学論集, 第 30 号, 205-217.
36. 高山俊昭 (1976): 石灰質ナンノプランクトン.微古生物学 (中巻) 浅野 清編, 朝倉書店, pp.237.
37. Takayama, T. (1993): Note on Neogene calcareous nannofossil biostratigraphy of the Ontong Java Plateau and size variations of Reticulofenestra coccoliths. Proceedings of the Ocean Drilling Program, Scientific Results, 130, 179-229.
38. Takayama, T. and Sato, T. (1987): Coccolith biostratigraphy of the North Atlantic Ocean, Deep Sea Drilling Project Leg 94. In Ruddiman, W.F., Kidd, R.B., Thomas,

E.,et al.,Init. Repts. DSDP, 94 (Pt. 2): Washington (U.S. Govt. Printing Office), 651-702.

39. 高山俊明・佐藤時幸・亀尾浩司・後藤登美子 (1995): 第四系石灰質ナンノ化石層序と鮮新統／更新統境界の年代値. 第四紀研究, 34, 157-170.
40. 高柳洋吉 編 (1978) : 微化石研究マニュアル,161p.朝倉書店,東京.
41. Usui A. and Someya M. (1997) Distribution and composition of marine hydrogenetic and hydrothermal deposits in the northwest Pacific, In Nicholson, K., Hein, J. R., Buhn, B. and Dasgupta (ed) Manganese Mineralization: Geochemistry and Mineralogy of Terrestrial and Marine Deposits, Geol. Soc. Special Pub. No.119, 177-198.
42. Wakita H., Rey, P., Schmitt R. A. (1971) Abundance of the 14 rare-earth elements and 12 other trace elements in Apollo 12 samples: five igneous and one breccia rocks and four soils. Proc. 2nd Lunar. Sci. Conf. Pergamon, Oxford, 1319-1329.
43. Young, J. R. (1998): Neogene. *In* Bown P. R., (eds.), British Micropalaeontological Society Publications Series, Calcareous Nannofossil Biostratigraphy, The University Press, Cambridge. 225-282.