

Faculty

Doug Crowe
John Dowd
Ray Freeman-Lynde
Ervan Garrison
Sue Goldstein
Rob Hawman
Steve Holland
Adam Milewski
John Noakes
Valentine Nzengung
Alberto Patiño-Douce
Marta Patiño-Douce
Bruce Railsback
Mike Roden
Paul A. Schroeder
Sam Swanson
Sally Walker
James Wright
Sandra Wyld



Raymond P. Freeman-Lynde

Associate Professor
B.A., [Middlebury College](#), 1975
M.A., M. Phil., Ph.D, [Columbia University](#),
1975-1980

Courses Taught

See my [ARCHES web site](#).

Research Interests

Evolution of carbonate platforms at passive continental margins, especially erosional processes causing retreat of the original Mesozoic platform edge and diagenesis of original shallow-platform facies in deep-marine water fluxing into the platform from the eroded margins

Paleoceanography of the Pleistocene, specifically the relationship between Antarctic Bottom Water production rates & glacial-interglacial fluctuations

Continental shelf sedimentation processes, specifically the interaction of tidal & storm energy with bathymetric features of the Georgia coast & redistribution of relict/palimpsest sediments shoreward.

Publications

Freeman-Lynde, R.P., and Lohmann, K.C., 1992. Stable oxygen isotopic composition: Use in determining ages of Bahama escarpment deep-marine calcite spars and implications for timing of erosion. *Geology*, 20: 323-326.

Paull, C. K., R. P. Freeman-Lynde, T. J. Bralower, J. M. Gardemal, A. C. Neumann, B. D'Argenio, and E. Marsella, 1990. Geology of the Strata Exposed on the Florida Escarpment. *Marine Geology*, 91:177-194.

Freeman-Lynde, R. P., 1988. Petrography of Late Albian Platform-interior Facies Strata: ODP Leg 101, Site 627, Little Bahama Bank. in Austin, J. A., Jr., Schlager, W., et al., *Proceedings of the Ocean Drilling Program, Scientific Results, Volume 101*: College Station, TX, Ocean Drilling Program, p. 193-202.

McClain, W. R., R. P. Freeman-Lynde, and K. C. Lohmann, 1988. Petrography and Stable Oxygen and Carbon Isotope Compositions of Campanian Grainstones and Rudstones, Northeast Providence Channel, Bahamas: ODP Leg 101, Hole 634. in Austin, J. A., Jr., and Schlager, W., et al., *Proceedings of the Ocean Drilling Program, Scientific Results, Volume 101*: College Station, Texas, Ocean Drilling Program, p. 245-253.

- Freeman-Lynde, R. P., W. R. McClain, and K. C. Lohmann, 1988. Deep-marine Origin of Equant Spar Cements in Oligocene-Miocene Perireef Boundstones, ODP Leg 101, Site 635, Northeast Providence Channel, Bahamas. in Austin, J. A., Jr., and Schlager, W., et al., Proceedings of the Ocean Drilling Program, Scientific Results, Volume 101: College Station, TX, Ocean Drilling Program, p. 255-261.
- Austin, J. A., Jr., W. Schlager, A. A. Palmer, P. A. Comet, A. Droxler, G. Eberli, E. Fourcade, R. Freeman-Lynde, G. S. Fulthorpe, G. Harwood, G. Kuhn, D. Lavoie, R. M. Leckie, A. J. Melillo, A. Moore, H. T. Mullins, C. Revenne, W. W. Sager, P. Swart, J. W. Verbeek, D. K. Watkins, and C. Williams, 1988. Leg 101-An Overview. in Austin, J. A., Jr., and Schlager, W., et al., Proceedings of the Ocean Drilling Program, Scientific Results, Volume 101: College Station, TX, Ocean Drilling Program, p. 455-472.
- Schmitter, R. D., and R. P. Freeman-Lynde, 1988. Hornblende Content of Georgia-South Carolina, U.S.A., Nearshore Sands: Support for Shoreward Sediment Transport in the Nearshore Zone. *Sedimentary Geology*, 57:153-169.
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- Freeman-Lynde, R. P., K. Fulker Whitley, and K. C. Lohmann, 1986. Deep-marine Origin of Equant Spar Cements in Bahama Escarpment Limestones. *Journal of Sedimentary Petrology*, 56:799-811.
- Austin, J. A., Jr., W. Schlager, A. A. Palmer, P. A. Comet, A. Droxler, G. Eberli, E. Fourcade, R. P. Freeman-Lynde, G. S. Fulthorpe, G. Harwood, G. Kuhn, D. Lavoie, R. M. Leckie, A. J. Melillo, A. Moore, H. T. Mullins, C. Revenne, W. W. Sager, P. Swart, J. W. Verbeek, D. K. Watkins, and C. Williams, 1986. Proceedings of the Ocean Drilling Program, Initial Report, Volume 101: College Station, TX, Ocean Drilling Program, 569 p.
- Freeman-Lynde, R. P., and W. B. F. Ryan, 1985. Erosional Modification of Bahama Escarpment. *Geological Society of America Bulletin*, 96:481-494.
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- Schlager, W., J. A. Austin, Jr., P. A. Comet, A. Droxler, G. Eberli, E. Fourcade, R. P. Freeman-Lynde, G. S. Fulthorpe, G. Harwood, G. Kuhn, D. Lavoie, R. M. Leckie, A. J. Melillo, A. Moore, H. T. Mullins, A. A. Palmer, C. Revenne, W. W. Sager, P. Swart, J. W. Verbeek, D. K. Watkins, and C. Williams, 1985. The Rise and Fall of Carbonate Platforms in the Bahamas. *Nature*, 315:632-633. Austin, J. A., Jr., W. Schlager, A. A. Palmer, P. A. Comet, A. Droxler, G. Eberli, E. Fourcade, R. P. Freeman-Lynde, G. S. Fulthorpe, G. Harwood, G. Kuhn, D. Lavoie, R. M. Leckie, A. J. Melillo, A. Moore, H. T. Mullins, C. Revenne, W. W. Sager, P. Swart, J. W. Verbeek, D. K. Watkins, and C. Williams, 1985. Megabank Found? Flanks Record Sea Level. *Geotimes*, 30:12-15.
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Cita, M. B., F. Benelli, B. Bigioggero, H. Chezar, A. Colombo, N. Fantini-Sestini, R. Freeman-Lynde, S. Iaccarino, F. Jadoul, E. Legnani, A. Malinverno, P. Massiotta, L. Paggi, and I. Premoli-Silva, 1980. Contribution to the Geological Exploration of the Malta Escarpment (Eastern Mediterranean). *Riv. Ital. Paleont.*, 86:317-356.

Maps

Heezen, B. C., and R. P. Freeman-Lynde, 1980. *Geological World Atlas*, Sheet 18, Atlantic Ocean, scale 1:30,000,000, UNESCO, Paris, France, 1 sheet, with explanation.

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Heezen, B. C., R. P. Lynde, Jr., and D. J. Fornari, 1978. *Geological World Atlas*, Sheet 20, Indian Ocean, scale 1:29,000,000, UNESCO, Paris, France, 1 sheet, with explanation.