

Visibility Laboratory Publications

Following is a list of Publications (SIO Reports and Journal Papers) of the Visibility Laboratory. Requests for copies should be addressed to:

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1980

- Austin, R.W. (1980), "Gulf of Mexico, Ocean-Color Surface-Truth Measurements", Published in *Boundary-Layer Meteorology* **18**, 269-285.
- Austin, R.W. and T.J. Petzold (1980), "The Determination of the Diffuse Attenuation Coefficient of Sea Water Using the Coastal Zone Color Scanner", Paper presented at COSPAR/SCOR/IUCRM Symposium, Oceanography from Space, Venice, Italy 26-29 May.
- Austin, R.W., T.J. Petzold, R.C. Smith and J.E. Tyler (1980), "Handbook of Underwater Optical Measurements", NOAA Contract USDC T 35365.
- Baker, K.S., R.C. Smith and A.E.S. Green (1980), "Middle Ultraviolet Radiation Reaching the Ocean Surface", *Photochem. and Photobiol.* **32**, 367-374.
- Carroll, J.J. and B.W. Fitch (1980), "Effects of Solar Elevation and Cloudiness on Snow Albedo at the South Pole", *J. Geophys. Res.* **86**, 5271-5276.
- Dustan, P. (in press) (1980), Review of "The Outer Shores", Ed. by Joel Hedgpeth, *Quarterly Review of Biology*.
- Dustan, P., R.J. Olsen and O. Holm-Hansen, (in press) (1980), "Phytoplankton Studies in the Scotia Sea", *Antarctic Journal*.
- Fenn, R.W., W.S. Hering, R.W. Johnson, and E.P. Shettle (1980), "Atmospheric Optical Properties and Meteorological Conditions", invited paper presented at EPA sponsored Symposium on Plumes and Visibility, Grand Canyon, Arizona, Oct. '80.
- Fitch, B.W. (1980), "Polarization of Light Reflected from Natural Surfaces", a report submitted to an adhoc group on polarization, IAMAP.
- Harris, J.L., Sr. (1980), "Transient Response and Huygen-Fresnel", University of California, San Diego, Scripps Institution of Oceanography, Visibility Laboratory, SIO Ref. 80-2.
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- Johnson, R.W. (1980), "Daytime Visibility and Nephelometer Measurements Related to its Determination", *Atmospheric Environment* (accepted for publication Dec. '80).
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- Richardson, C.A., P. Dustan and J.C. Lang. (1980), "Maintenance of Living Space by Sweeper Tentacles of *Montastrea cavernosa*, a Caribbean Reef Coral", *Marine Biology* **55**, 181-186.
- Smith, R.C. and K.S. Baker (1980), "Assessment of the Influence of Enhanced UVB in Marine Primary Productivity", NATO Advanced Research Institute, Role of Solar Ultraviolet Radiation in Marine Ecosystems. Copenhagen, Denmark, July 1980. Monograph, J. Calkins, editor.
- Smith, R.C., K.S. Baker, O. Holm-Hansen and R. Olson (1980), "Photoinhibition of Photosynthesis in Natural Waters", *Photochem. and Photobiol.* **31**, 585-592.
- Smith, R.C. and K.S. Baker (1980), "Stratospheric Ozone, Middle Ultraviolet Radiation and ¹⁴C Measurements of Marine Productivity", *Science* **208**, 592-593.
- Smith, R.C. and K.S. Baker (1980), "Biologically Effective Dose Transmitted by Culture Bottles in ¹⁴C Productivity Experiments", *Limnol. and Oceanog.* **25**, 364-366.

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- Smith, R.C. and W.H. Wilson (1980), "Ship and Satellite Bio-Optical Research in the California Bight", Proceedings of the COSPAR/SCOR/IUCRM Symposium, Oceanography from Space, Venice, Italy 26-30 May.
- Smith, R.C. and K.S. Baker (1980), "Middle Ultraviolet Irradiance Measurements at the Ocean Surface", University of California, San Diego, Scripps Institution of Oceanography, Visibility Laboratory, SIO Ref. 80-12.
- Wilson, W.H. (1980), "Solar Ephemeris Algorithm", University of California, San Diego, Scripps Institution of Oceanography, Visibility Laboratory, SIO Ref. 80-13.
- Austin, R.W. (1979), "Coastal Zone Color Scanner Radiometry", Proceedings of the SPIE, *Ocean Optics VI*, **208**, 170-208.
- Baker, K.S. (1979), "Calculation of Biologically Effective UV-B Radiation in Aquatic Systems", University of California, San Diego, Scripps Institution of Oceanography, Visibility Laboratory, SIO Ref. 79-1.
- Baker, K.S. and R.C. Smith (1979), "Quasi-Inherent Characteristics of the Diffuse Attenuation Coefficient", Proceedings of the SPIE, *Ocean Optics VI*, **208**, 60-63.
- Booth, C.R. and P. Dustan (1979), "A Diver Operable Multiwavelength Radiometer", Proceedings of the Society of Photo-optical Instrument Engineers, H.P. Field *et al*, editors, **196**, 33-39.
- Dustan, P. (1979), "The Distribution of Zooxanthellae and Photosynthetic Chloroplast Pigments of the Reef-building Coral *Montastrea annularis*", *Bull. Mar. Sci.* **29**(1), 79-95.
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- Johnson, R.W. (1979), "Airborne Measurements of European Atmospheric Scattering Coefficients", Proceedings of SPIE **195**, Atmospheric Effects on Radiative Transfer, August '79.
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- Kiefer, D.A., R.J. Olson and W.H. Wilson (1979), "Reflectance Spectroscopy of Marine Phytoplankton, Part 1. Optical Properties as Related to Age and Growth Rate", *Limnol. and Oceanog.* **24** (4), 664-672, also issued as University of California, San Diego, Scripps Institution of Oceanography, Visibility Laboratory, SIO Ref. 78-6.
- Smith, R.C. and K.S. Baker (1979), "Penetration of UV-B and Biologically Effective Dose-rates in Natural Waters", *Photochem. and Photobiol.* **29**, 311-323.
- Smith, R.C., R.L. Ensminger, R.W. Austin, J.D. Bailey, G.D. Edwards (1979), "Ultraviolet Submersible Spectroradiometer", Proceedings of the SPIE, *Ocean Optics VI*, **208**, 27-140.
- Tyler, J.E. (1979), "In-Situ Quantum Efficiency", *Appl. Opt.* **18**(4), 442-445.
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