

“Using SAR Remote Sensing Field Observations and Models to Better Understand Coastal Flows in the Gulf of Alaska,” with Nathaniel S. Winstead, Brian Colle, Nicholas Bond, George Young, Joseph Olsen, Kenneth Loesher, Frank Monaldo, and William Pichel, *BAMS*, 86, 787-800, 2006.

“An Improved Geometrical Optics Model for Bistatic GPS Scattering from the Ocean Surface,” with Tanos M. Elfouhaily and James L. Garrison, *IEEE Trans. Geosci. Remote Sensing*, 43-12, 2810-2821, 2005.

“Can synthetic aperture radars be used to estimate hurricane force winds?” with J. Horstmann, F. M. Monaldo, H. C. Graber, and S. Isis, *Geophys. Res. Lett*, 32, L22801, doi:10.1029/2005GL023992, 2005.

“Microwave Scattering from the Sea,” Chapter 4 in *Synthetic Aperture Radar Marine User’s Guide*, eds., C. R. Jackson and J. R. Apel, U.S. Department of Commerce, 117-138, 2004.

“Formal tilt invariance of the local curvature approximation and its connection to the integral equation method,” with Tanos Elfouhaily and Stéphan Guignard, *IEEE Geosci. Remote Sensing Lett.*, 1-2, 51-56, 2004.

“A systematic comparison of QuikScat and SAR ocean surface wind speeds,” with F. M. Monaldo, W. G. Pichel, and P. Clemente-Colón, *IEEE Trans. Geosci. Remote Sensing*, 42-2, 283-291, 2004.

“A time-frequency application with the Stokes-Woodward technique,” with Tanos Elfouhaily, S. Guignard, H. Branger, B. Chapron, and D. Vandemark, *IEEE Trans. Geosci. Remote Sensing* 41-11, 2670-2673, 2003.

“Local and non-local curvature approximation: a new asymptotic theory for wave scattering,” with Tanos Elfouhaily, Stéphan Guignard, and Ra’id Awadallah, *Waves in Random Media*, 13-4, 321-337, 2003

“Formal tilt invariance of the local curvature approximation,” with Tanos Elfouhaily and Stéphan Guignard, *Waves in Random Media*, 13-4, L7-L11, 2003.

“A practical second-order electromagnetic model in the quasi-specular regime based on the curvature of a 'good-conducting' scattering surface,” with Tanos Elfouhaily and Stéphan Guignard, *Waves in Random Media*, 13-3, L1-L6, 2003.

“Analytical comparison between the surface current integral equation and the second-order small-slope approximation, with Tanos Elfouhaily, Maminirina Joelson, and Stéphan Guignard, *Waves in Random Media*, 13-3, 165-176, 2003.

“Analysis of random nonlinear water waves: The Stokes-Woodward technique,” with Tanos Elfouhaily, Maminirina Joelson, Stéphan Guignard, Hubert Branger, Bertrand Chapron, and Douglas Vandemark, *C. R. Mecanique* 331, 189-196, 2003.

“Direct influence of gravity waves on surface-layer stress during a cold air outbreak as shown by synthetic aperture radar,” with N. S. Winstead and T. D. Sikora, *Monthly Weather Review*, 130, 2764-2776, 2002.

“Air-sea turbulence statistics from synthetic aperture radar: An update,” with Todd D. Sikora, *Can. J. Remote Sensing*, 28, 517-523, 2002.

"Delay-Doppler analysis of bistatically reflected signals from the ocean surface: Theory and application" with Tanos Elfouhaily and L. Linstrom, *IEEE Trans. Geosci. Remote Sensing*, 40, 560-573, 2002.

"Altimeter Sea State Bias: a new look at global range error estimates," with B. Chapron, D. Vandemark, T. Elfouhaily, P. Gaspar, and S. LaBroue, *Geophys. Res. Lett.* 28, 3947-3950, 2001.

"Comparison of SAR -derived wind speed with model predictions and ocean buoy measurements," with F. M. Monaldo, R. C. Beal, W. G. Pichel, and P. Clemente-Colón, *IEEE Trans. Geosci. Remote Sensing*, 39, 2587-2600, 2001.

"Higher-order hydrodynamic modulation: theory and applications for ocean waves," with Tanos Elfouhaily, Douglas Vandemark, and Bertrand Chapron, *Proc. R. Soc. Lond. A*, 457, 2585-2608, 2001.

"Combined estimates improve high-resolution coastal wind mapping," with F. M. Monaldo, R. C. Beal, N. S. Winstead, G. Pichel, and P. Clemente-Colón, *Eos*, 82, No. 41, October 9, 2001.

"Remotely sensed ocean observations of the Coastal Mixing and Optics site from synthetic aperture radars and advanced very high resolution radiometers," with David L. Porter, Werner Alpers, and Roland Romeiser, *J. Geophys. Res. Oceans*, 106 C5, 9623-9638, 2001.

"Improved electromagnetic bias theory: Inclusion of hydrodynamic modulations," with Tanos Elfouhaily, Bertrand Chapron and Douglas Vandemark, *J. Geophys. Res. Oceans*, 106 C3, 4655-4664, 2001.

"A New Bistatic Model for Electromagnetic Scattering from Perfectly-Conducting Random Surfaces: Numerical Evaluation and Comparison with SPM," with Tanos Elfouhaily, David E. Freund, Douglas Vandemark and Bertrand Chapron, *Waves in Random Media*, 11, 33-43, 2001.

"Truncated Hamiltonian Versus Surface Perturbation in Nonlinear Wave Theories," with Tanos Elfouhaily, Douglas Vandemark and Bertrand Chapron, *Waves in Random Media*, 10, 103-116, 2000.

"Effects of atmospheric Boundary-Layer Moisture on Friction Velocity with Implications for SAR Imagery," with Steven M. Babin, *IEEE Transactions on Geoscience and Remote Sensing*, 38, 618-612, 2000.

"Numerical Study on the Along-Track Interferometric Radar Imaging Mechanism of Oceanic Surface Currents," with Roland Romeiser, *IEEE Transactions on Geoscience and Remote Sensing*, 38, 446-458, 2000.

"Improved Electromagnetic Bias Theory," with Tanos Elfouhaily, Bertrand Chapron, and Douglas Vandemark, *Journal of Geophysical Research*, 105 C1, 1299-1310, 2000.

"Mapping of Mesoscale and Submesoscale Wind Fields Using Synthetic Aperture Radar, with Robert C. Beal, *APL Technical Digest*, 58-67, 2000.

"Testing the Diagnosis of the Marine Atmospheric Boundary Layer Structure from Synthetic Aperture Radar," with Todd D. Sikora and John C. Bliedorn, *APL Technical Digest*, 94-99, 2000.

- "Towards Extracting Fine-Scale Wind Fields From Synthetic Aperture Radar Imagery of the Ocean Surface," with Pierre D. Mourad and Douglas C. Vandemark, *APL Technical Digest*, 108-115, 2000.
- "A New Bistatic Model for Electromagnetic Scattering from Perfectly-Conducting Random Surfaces," with Tanos Elfouhaily, Douglas Vandemark, and Bertrand Chapron, *Waves in Random Media*, 9, 281-294, 1999.
- "Weakly Nonlinear Theory and Sea State Bias Estimations," with Tanos Elfouhaily, Douglas Vandemark, and Bertrand Chapron, *J. Geophys. Res.*, 104C4, pp. 7641-7647, 15 April, 1999.
- "Continental Shelf Parameters Inferred from SAR Internal Wave Observations," with D. L. Porter, *Journal of Atmospheric and Oceanic Technology*, 16 n 4, 475-487, April, 1999.
- "Application of Iterative Moment-Method Solutions to Ocean Surface Radar Scattering," with D. J. Donohue and H.-C. Ku, *IEEE Transactions on Antennas and Propagation*, 46, 121-132, January, 1998.
- "Correlation of Oceanographic Signatures Appearing in Synthetic Aperture Radar and Interferometric Synthetic Aperture Radar Imagery with *In Situ* Measurements," with G. O. Marmorino, H. C. Graber, and C. L. Trump, *J. Geophys. Res.*, 102C8, pp. 18,723-18,736, 15 August, 1997.
- "Direct Numerical Simulation of Electromagnetic Rough Surface and Sea Scattering by an Improved Banded Matrix Iterative Method," with Denis J. Donohue, Hwar-Ching Ku, and John Sadowsky, *Johns Hopkins APL Technical Digest*, 18, 204-216, 1997.
- "The Influence of the Marine Atmospheric Boundary Layer on ERS 1 Synthetic Aperture Radar Imagery of the Gulf Stream," with R. C. Beal, V. N. Kudryavtsev, S. A. Grodsky, D. G. Tilley, V. A. Dulov, and H. C. Graber, *J. Geophys. Res.*, 102C3, pp. 5799-5814, 15 March, 1997.
- "Ocean Surface Features and Currents Measured with Synthetic Aperture Radar Interferometry and HF Radar," with H. C. Graber and R. E. Carande, *J. Geophys. Res.*, 101C11, pp. 25,813-25,832, 15 November, 1996.
- "Observations of Ship-Generated Internal Waves in SAR Images from Loch Linnhe, Scotland, and Comparison with Theory and In-Situ Internal Wave Measurements," with G. Hogan, R. D. Chapman, and G. Watson, *IEEE Transactions on Geoscience and Remote Sensing*, 34, 532-542, March, 1996.
- "Ocean Microwave Backscatter Distributions," with B. L. Gotwols, *J. Geophys. Res.*, 99C5, pp. 9741-9750, 15 May 1994.
- "Comparison of Model Predictions for Radar Backscatter Amplitude Probability Density Functions with Measurements from SAXON," with B. L. Gotwols, *J. Geophys. Res.*, 99C5, pp. 9725-9739, 15 May 1994.
- "Synthetic Aperture Radar Interferometry Applied to Ship-Generated Internal Waves in the 1989 Loch Linnhe Experiment," with J. R. Jensen, *J. Geophys. Res.*, 98, 10,259-10,269, 1993.

"Note on the Reduction of the "Full-Wave" Method for Rough Surface Scattering to the Small-Height Limit," with R. D. Chapman, *J. Geophys. Res.*, 98, 4827-4831, 1993.

"Ocean Surface Remote Sensing Program Planned," with Frank Herr, Charles Luther, Richard Mied, George Marmorino, *EOS*, Transactions of the American Geophysical Union, May 7, 1991.

"A Comparison of K_u-Band Doppler Measurements at 20° Incidence with Predictions from a Time-Dependent Scattering Model," with B. L. Gotwols, and W. C. Keller, *J. Geophys. Res.*, 96, 4947-4955, 1991.

"Synthetic Aperture Radar Imaging of Ship-Generated Internal Waves," with R. F. Gasparovic, and J. R. Apel, *Johns Hopkins APL Technical Digest*, 10, 326-331, 1989.

"Probing the Ocean Surface with Microwave Radar," *Johns Hopkins APL Technical Digest*, 10, 332-338, 1989.

"Doppler Spectra from the Ocean Surface with a Time-Dependent Composite Model," in Radar Scattering from Modulated Wind Waves, G. J. Komen and W. A. Oost, eds., pp. 27-40, Kluwer Academic Publishers, Dordrecht, Boston, and London, 1989.

"Signatures of Surface Wave/Internal Wave Interactions: Experiments and Theory," with J. R. Apel, R. F. Gasparovic, and B. L. Gotwols, *Dynamics of Oceans and Atmospheres*, 12, 89-106, 1988.

"Measurement and Interpretation of Surface Roughness Changes Induced by Internal Waves During JOWIP," with B. L. Gotwols, R. E. Sterner II, *J. Geophys. Res.*, 93 C10, 12265-12281, 1988.

"A Comparison of Measured Surface-Wave Spectral Modulations with Predictions from a Wave-Current Interaction Model," with B. L. Gotwols, and R. E. Sterner II, *J. Geophys. Res.*, 93 C10, 12339-12343, (1988).

"Calculation of Radar Backscatter Modulations from Internal Waves," *J. Geophys. Res.*, 93 C10, 12371-12380, 1988.

"Hydrodynamics of Internal Solitons and a Comparison of SIR-A and SIR-B Data with Ocean Measurements," with J. A. Apel and R. F. Gasparovic, in *The Second JPL Spaceborne Imaging Radar Symposium*, JPL Publication 86-26, 91, 1986.

"A Comparison of SIR B Synthetic Aperture Radar Data with Ocean Wave Measurements," with R. F. Gasparovic, J. R. Apel, and J. S. Tochko, *Science*, 232, 1986.

"Intensity Modulation in SAR Images of Internal Waves," with R. F. Gasparovic, *Nature*, 320, 1986.

"Hydrodynamics and Radar Signatures of Internal Solitons in the Andaman Sea," with J. R. Apel, D. G. Tilley, and P. Van Dyke, *Johns Hopkins APL Tech. Dig.*, 6, No. 4, pp. 330-337, 1985.

"Intensity Modulations in Synthetic Aperture Radar Images of the Ocean Surface and the Wave Current Interaction Process," *Johns Hopkins APL Tech. Dig.*, 6, No. 4, pp. 346-353, 1985.

"Resonating Group Study of the ${}^3\text{He}({}^3\text{H}) + \alpha$ Systems: Bound States to 113 MeV," with Robert D. Furber, Ronald E. Brown, G. L. Peterson, and Y. C. Tang, *Phys. Rev.*, 25, No. 1, 1982.

"A Survey of Recent Results and Ideas from R.G.M. Investigations," invited lecture, reprinted in Clustering Aspects of Nuclear Structure and Nuclear Reactions, *AIP Conference Proceedings*, 47, W. T. H. Van Oers, *et al.* (eds.), pp. 69-89, American Institute of Physics, 1978.

"Resonating Group Method for Nuclear Many Body Problems," with Y. C. Tang and M. Le Mere, *Physics Rep.*, 47, No. 3, 1978.

"Direct Reaction Mechanisms in the α (p,d) ${}^3\text{He}$ Reaction," with F. S. Chwieroth and Y. C. Tang, *Proc. International Symp. Nuclear Collisions and their Microscopic Description*, Bled, Yugoslavia, *Fizika*, 9, Supp. 2, 1977.

"Systematic Investigation of Scattering Problems with the Resonating Group Method," with M. Le Mere and Y. C. Tang, *Nucl. Phys.*, A286, 1977.

"Complex Generator Coordinate Technique in Resonating Group Calculations Employing Flexible Fragment Wave Functions," with M. Le Mere and Y. C. Tang, *Phys. Lett.*, 69B, 1977.

"Resonating Group Study of p + α Scattering from 68 to 125 MeV," with R. E. Brown, M. Le Mere, and Y. C. Tang, *Phys. Rev.*, C16, 1977.

"Di-neutron Cluster States in ${}^{18}\text{O}$," with M. Le Mere and Y. C. Tang, *Phys. Rev.*, C16, 1977.

"d + ${}^{16}\text{O}$ and N + ${}^{16}\text{O}$ System with the Resonating Group Method," with M. Le Mere and Y. C. Tang, *Phys. Rev.*, C14, 1976.

"Influence of the Pauli Principle on the Optical Potential for α + ${}^{16}\text{O}$ Scattering," with R. A. Partridge and Y. C. Tang, *Nucl. Phys.*, A273, 1976.

"Study of the ${}^3\text{H} + {}^{16}\text{O}$ and ${}^3\text{He} + {}^{16}\text{O}$ System with the Resonating Group Method," with M. Le Mere and Y. C. Tang, *Phys. Lett.*, 63B, 1976.

"Resonating Group Study of the N + ${}^{40}\text{Ca}$ System," with M. Le Mere and Y. C. Tang, *Nucl. Phys.*, A270, 1976.

"Study of the α + ${}^{16}\text{O}$ System with the Resonating Group Method," with M. Le Mere and Y. C. Tang, *Phys. Rev.*, C14, 1976.

"Resonating Group Study of d + α Scattering," with M. Le Mere and Y. C. Tang, *Nucl. Phys.* A266, 1976.

"Resonating Group Study of n + ${}^{40}\text{Ca}$ Scattering," with Y. C. Tang, *Phys. Rev.*, C14, 1976.

"Resonating Group Study of $n + {}^{16}\text{O}$ Scattering with a Generator Coordinate Technique," with Y. C. Tang, *Phys. Rev.*, C12, 1975.

"Resonating Group Calculation of $n + {}^3\text{H}$ Scattering," with M. Le Mere, R. E. Brown, and Y. C. Tang, *Phys. Rev.*, C12, 1975.

"Odd Even Model with Pauli Repulsive Core for ${}^3\text{He} + {}^3\text{He}$ Scattering," with R. A. Partridge, R. E. Brown, and Y. C. Tang, Proc. Second International Conf. Clustering Phenomena in Nuclei, D. A. Goldberg, J. B. Marion, and S. J. Wallace (eds.), pp.225-226, University of Maryland, 1975.

"Scattering and Reaction Calculations with the Resonating Group Method," with Y. C. Tang, invited lecture reprinted in Proc. Second International Conf. Clustering Phenomena in Nuclei, D. A. Goldberg, J. B. Marion, and S. J. Wallace (eds.), pp. 119-139, University of Maryland, 1975.

"Resonating Group Study and Importance of Exchange Processes in $N + {}^{16}\text{O}$ Scattering," with Y. C. Tang, *Phys. Rev.*, C11, 1975.

"R-Matrix Analysis of the ${}^{12}\text{C}(\alpha, \gamma){}^{16}\text{O}$ Reaction," with D. C. Weisser and J. F. Morgan, *Nucl. Phys.*, A235, 1974.

"Odd even features in ${}^3\text{He} + {}^3\text{H}$ scattering," with R. E. Brown, F. S. Chwieroth, and Y. C. Tang, *Nucl. Phys.*, A230, 1974.

"Absorption effects in $d + \alpha$ scattering," with Y. C. Tang, *Phys. Rev.*, 10C, 1974.

"Distortion effects in the $\alpha + \alpha$ system," with Y. C. Tang and F. S. Chwieroth, *Phys. Rev.* 10C, 1974.

"Study of direct reaction mechanisms and the distorted wave Born approximation in the $\alpha(p, d){}^3\text{He}$ reaction," with F. S. Chwieroth and Y. C. Tang, *Phys. Rev.*, 10C, 1974.

"Odd even absorption and Coulomb exchange effects in the ${}^3\text{He} + {}^3\text{He}$ and ${}^3\text{H} + {}^3\text{He}$ systems," with J. A. Koepke, Ronald E. Brown, and Y. C. Tang, *Phys. Rev.*, 9C, 1974.

"Microscopic coupled channel study of the five nucleon system with resonating group method," with F. S. Chwieroth and Y. C. Tang, *Phys. Rev.*, 9C, 1974.

"Distortion Effects in the $d + \alpha$ System," with Y. C. Tang, *Phys. Rev.*, 8C, 1973.

"Effects of Imaginary Potentials on Spurious Resonances in Resonating Group Calculations," with F. S. Chwieroth and Y. C. Tang, *Phys. Lett.*, 46B, 1973.

"Study of $d + {}^3\text{H}$ and $d + {}^3\text{He}$ Systems with the Resonating Group Method," with F. S. Chwieroth, Ronald E. Brown, and Y. C. Tang, *Phys. Rev.*, 8C, 1973.

"Odd Even Absorption in ${}^3\text{He} + {}^3\text{He}$ Scattering and Level Structure of ${}^8\text{Be}$," with Y. C. Tang, J. A. Koepke, and R. E. Brown, *Nucl. Phys.*, A201, 1973.

"Odd Even Features on the Effective Interaction Between Light Nuclei," with R. E. Brown and Y. C. Tang, in Few Particle Problems in the Nuclear Interaction, I.

Slaus, S. A. Morzkowski, R. P. Haddock, and W. T. H. van Oers (eds.), North Holland, Amsterdam, 1972.

"Nonlocal and Majorana Exchange Terms in the Optical Model," with G. W. Greenlees, W. Makofske, Y. C. Tang, *Phys. Rev.*, 6C, 1972.

"Study of the d + d System with the Resonating Group Method and an Imaginary Potential," with F. S. Chwieroth and Y. C. Tang, *Nucl. Phys.*, A189, 1972.

"Majorana Component in the Imaginary Potential for p + α Scattering," with Y. C. Tang and R. E. Brown, *Phys. Rev.*, 5C, 1972.

"Exchange Processes in n + α Scattering," with Y. C. Tang, *Phys. Rev.*, 4C, 1971.

"Study of the p + He³ and n + H³ Systems with the Resonating Group Method," with I. Reichstein and Y. C. Tang, *Phys. Rev.*, 3C, 1971.

"The Effect of d + d Final State Interactions on the ⁴He(α ,d) ²H Cross Section," *Nucl. Phys.*, A154, 1970.

"Study of the d + d System Using the Method of Resonating Group Structure," *Nucl. Phys.* A143, 1970.

"Effective $\alpha + \alpha$ and $\alpha + N$ Potentials from Resonating Group Calculations," with I. Reichstein, W. McClure, and Y. C. Tang, *Phys. Rev.*, 185, 1969.

"Study of $\alpha + d$ and $\alpha + d^*$ Systems with the Resonating Group Method," with Y. C. Tang, *Phys. Rev.*, 179, 1969.

"Study of ³H + ³H, ³H + ³He, and ³He + ³He Systems with the Resonating Group Method," with Y. C. Tang, *Nucl. Phys.*, A106, 1968.

"Phase Shifts of d + α Scattering," with Y. C. Tang, *Phys. Lett.*, 26B, 1967.

"Cluster Structure of Excited Levels in He⁶ and Li⁶," with Y. C. Tang, *Phys. Rev. Lett.* 19, 1967.

"Resonating Group Calculations of He³ + He³ Scattering," with Y. C. Tang, *Phys. Rev.* 159, 1967.