

REFERENCIAS

- Abdalla S., Janssen. P., Bidlot J., 2002 "The use of satellite observations and enhanced physics to improve wind-wave predictions at ECMWF" International Conference in Coastal Engineering. Paper No 34
- Aguirre-Villaseñor, H., 2000 "Aspectos biológicos y ecológicos del salmónete de fango *Mullus barbatus* L. 1758 y del salmónete de roca *Mullus surmuletus* L. 1758, del Mediterraneo Noroccidental" Tesis de Doctorado, Universidad Politécnica de Cataluña, 224 pp.
- Alkyon, 1999a, "Investigation of the interaction behaviour of the wave model SWAN" Report A415, 15 pp.
- Alkyon, 1999b, "Source term investigation, SWAN" report A162, 83 pp.
- Allender, J.H., Albrecht, J., y Hamilton, G., 1983 "Observations of directional relaxation of wind sea spectra" *J. Phys. Oceanography* 13, 1519-1524 pp.
- Alves, J.H.G.M. y Young, I.R., 2003 "On estimating extreme wave heights using combined geosat, Topex/Poseidon and ERS-1 altimeter data" *Applied Ocean research*, 25, 167-186.
- Anderson, R.J., 1993 "A study of wind stress and heat flux over the open ocean by the inertial dissipation method" *J. Phys. Oceanogr.*, 23, 2153-2161.
- Baldock T.E. y Swan, C., 1996 "Extreme waves in shallow and intermediate water depths" *Coastal Engineering*, 27, pp 21-26.
- Banner, M.L. y Peirson, W.L., 1998 "Tangential stress beneath wind-driven air-sea interfaces" *Journal of Fluid Mechanics*, 364, 115-145.
- Bargagli A., Carillo, A., Pisacane, G., Ruti, P.M., Struglia, M.V., Tartaglione, N., 2002 "An integrated forecast system over the mediterranean Basin: extreme surge prediction in the Northern Adriatic Sea" *Monthly weather Review*, V 130, 1317-1332.
- Battjes, J.A. y Janssen, J.P.F.M., 1978 "Energy loss and set-up due to breaking of random waves" *Proc 16 Int Conf. Coastal Engineering*, ASCE 569-587 pp.
- Battjes, J.A. y Vledder van G.Ph., 1984 "Verification of kimura's theory for wave group statistics" *International Conference on Coastal Engineering*, 642 – 648.
- Bauer E., y Weisse, R., 2000 "Determination of high-frequency wind variability from observations and application to North Atlantic wave modeling" *Journal of Geophysical Research*, Vol 105, No C11 26179-26190 pp.
- Bidlot, Jean-Raymond, Damian J. Holmes, Paul A. Wittmann, Roop Lalbeharry, Hsuan S. Chen, 2002: "Intercomparison of the Performance of Operational Ocean Wave Forecasting Systems with Buoy Data". *Weather and Forecasting*: Vol. 17, No. 2, pp. 287–310.
- Bishop, C.T., Donelan, M.A., y Kahma, K.K., 1992 "Shore protection Manual's wave prediction reviewed" *Coastal Engineering*, 17, 25-48 pp.
- Blackadar A. K., 1976 "Modeling the nocturnal boundary layer". *Proc. Tird Symp. on Atmospheric Turbulence, Diffusion and Air Quality*, Boston, Amer. Meteor. Soc. pp 4649
- Blackadar, A.K., 1979 "High resolution models of the planetary boundary layer". *Advances in environmental Science and Engineering* Vol. 1 num. 1, J. Pfafflin and Ziegler E., eds. Fordon and Breach, pp 50-85
- Booij N., Holthuijsen L. y Battjes, J., 2001 "Ocean to near-shore wave modelling with SWAN" *Coastal Dynamics'01* 335-344
- Booij, N, Ris, R.C. y Holthuijsen, L.H., 1999 "A third generation wave model for coastal regions" *Journal of Geophysical research* V 104, C4, 7649-7666
- Bortkovskii R.R., y Novak, V.A., 1993 "Statistical dependencies of sea state characteristics on water temperature and wind-wave age" *Journal of Marine Systems*, Elsevier Science Publishers, No 4 161-169 pp
- Bourassa, M. A., Vincent, D. G., Wood, W.L., 1999, A flux parameterization including the effects of capillary waves and sea state, *J. Atmos. Sci.*, Vol 16, 350-369.
- Bourassa, M. A., Vincent, D.G., Wood, W.L., 2001 "A sea state parameterization with nonarbitrary wave age applicable to low and moderate wind speeds" *Journal of physical Oceanography*, vol 31, 2840-2851

- Bouws, E., H. Gunther, W. Rosenthal y C. L., Vincent, 1985 "Similarity of the wind wave spectrum in finite depth water, Part I: Spectral form", *J. Geophys. Res.*, Vol. 90, C1, 975-986
- Bretschneider, C. L., 1959 "Wave variability and waves spectra for wind-generated gravity waves", Beach Erosion Board Technical Memo, N° 113, US Army Corps of Engineers, p. 192.
- Burgers, G., y Makin, V.K., 1993 "Boundary layer model results for wind-sea growth" *J. Phys. Oceanogr.* 23, 372-385.
- Cardone, V.J., Graber, H. C., Jensen, R. E., Hasselmann, S. y Caruso, M.J., 1995 "In search of the true surface wind field in SWADE IOP: Ocean wave modelling perspective" *Global Atmos. Ocean Syst.* 3, 107-150
- Cartwright, D. E. y M. S. Longuet-Higgins, 1956 "The statistical distribution of the maxima of random function", *Proc. Roy. Soc. London, Ser A* 237: 212-232.
- Casas, D., Ercilla, G., Baraza, J., Alonso, B., Maldonado, A., 2003 "Recent mass movement processes on the Ebro continental slope (NW Mediterranean)" *Marine and Petroleum Geology*, 20, 445-457.
- Caudal G. 1997 "On the Dependence of the equilibrium range of sea wave spectra with wave age" *Boundary Layer Meteorology* 86, 29-45 pp
- Cavaleri, L. y Bertotti, L., 2003. "The characteristics of wind and wave fields modelled with different resolutions". *Q.J.Royal meteor. Soc.*, 129, pp. 1647-1662
- Cavaleri, L. y Bertotti, L., 2004, "Accuracy of the modelled wind and wave fields in enclosed seas" *Tellus*, 56^a, 167-175.
- Cavaleri, L. y Burgers, G-J.H., 1992 "Wind gustiness and wave growth" KNMI Afdeling Oceanografisch Onderzoek memo, OO-92-18, De Bilt, 38 p.
- Cavaleri, L., L. Bertotti y P. Lionello, 1991 "Wind wave cast in the Mediterranean Sea", *J. Geophys. Res.* C96, 10739-10764.
- Cavaleri, L., y Malanotte-Rizzoli, P., 1981 "Wind wave prediction in shallow water: theory and applications" *J. Geophys. Res.*, 86, no. C11, 10,961-10,973
- CERC, 1985 "Directional wave spectra using cosine-squared and cosine 2S spreading functions" Coastal engineering technical note, 6 pp.
- CERC, 1992 "Importance of directional spreading of waves in the nearshore region" Coastal engineering technical note, 8 pp.
- Charnock, H., 1955 "Wind stress on a water surface" *Quart. J. Roy. Meteorol. Soc.* 81, 639-640
- Chen, Y., Guza, R.T., y Elgar, S., 1997 "Modeling spectra of breaking surface waves in shallow water" *Journal Geophysical Research* 102 25035-25046
- Coastal Engineering Manual 2002, <http://bigfoot.wes.army.mil/cem001.html>
- Codina, B, Aran, M., Young, S. y Redaño, A. (1997). Prediction of a mesoscale convective system over the Catalonia (North-eastern Spain) with a nested numerical model. *Meteorol. Atmos. Phys.* 62, 9-22.
- Collins, J.I. 1972 "Prediction of shallow water spectra" *Journal of geophysical research*, 77, 2693-2701
- Cox, A., Greenwood, J., Cardone, V., Swail, V., 1995 "An interactive objective kinematic analysis system" 4th International workshop on wave hindcasting and forecasting. Banff, Alberta, Canada. 109-118
- Dally, W. Dean, R., Dalrymple, R. 1984 "A model for breaker decay on beaches" *Coastal Engineering* 82-98
- Dally, W., Dean. R. y Dalrymple, R., 1985 "Wave height variation across beaches of arbitrary profile" *Journal of geophysical Research*, Vol 90 No C6 11917-11927 pp
- Dalrymple, R.A., Kirby, J.T. y Mann, D.W., 1984 "Wave propagation in the vicinity of islands" 16th Offshore Technology Conference, Houston, Estados Unidos.
- Day, JW, Martin, J.F., Cardoch, L y Templet, P.H., 1997 "System functioning as a basis for sustainable management of deltaic ecosystems" *Coastal management*, 25, 115-153
- Dean, R. y Dalrymple, R., 1991 "Water wave mechanics for engineers and scientists" *Advanced series on ocean engineering*, vol 2. World Scientific, 345 pp.
- Dean, R., 1965 "Stream function representation of nonlinear ocean waves" *J. geophys. Res.* Vol 70, No. 18, 4561-4571 pp
- Dean, R., 1974 "Evaluation and development of water wave theories for engineering application" Vols 1 and 2, Spec. Rep. 1, US Army, Coastal Engineering Research Center
- Del Amo P.A.A., 2000 "Aspectos de la variabilidad de mesoescala de la circulación marina en la plataforma continental catalana" Tesis Doctoral. Universidad Politécnica de Cataluña 425 pp
- Dell'Osso, L., Bertotti, L., Cavaleri, L., 1992 "The gorbush storm in the mediterranean Sea: atmospheric and wave simulation" *Monthly Weather Rev.* 120, 77-90 pp

- Deque, M., y J.Ph. Piedelievre, 1995: High resolution climate simulation over Europe. *Climate Dyn.*, 11, 321-339.
- Dobson, F., Perrie, W., Toulany, B., 1989 "On the deep-water fetch laws for wind generated surface gravity waves" *Atmosphere ocean*, 27, 210-236 pp
- Donelan M.A. 1990 "Air sea interactions" *The sea. Vol 9: Air Sea Interaction.* B. LeMahaute and D.M. Hanes Ed Wiley and Sons 239-292
- Donelan, M.A. 1982 "The dependence of the aerodynamic drag coefficient on wave parameters" *Proc. 1st Inter. Conf on Meteorological and air/sea interaction in the coastal zone* 1 381-387 pp
- Drennan, W.M., Graber, C.H., Hauser, D., Quentin, C., 2003 "On the wave age dependence of wind stress over pure wind seas" *J. Geo. Res.*, 108, C3.
- Ebuchi, N., Graber, H.C., Caruso, M.J., 2002 "Evaluation of wind vectors observed by Quikscat/SeaWinds using ocean buoy data" *J. Atmos. Ocean. Tech.*, 19, 12, 2049-2057.
- Ewans, K. C., 1998 "Observations of the directional spectrum of fetch-limited waves", *J. Phys. Oceanogr.*, Vol. 28, 495-512.
- Flamant, C.V., Pelon, J., Hauser, D., Quentin, C., Drennan, W., Gohin, F., Chapron, B., Gourrion, J., 2003a "Analysis of surface wind and roughness length evolution with fetch using a combination of airborne lidar and radar measurements" *Journal of Geophysical Research*, Vol 108, No C3, 26 pp.
- Flamant, C.V., Pelon, J., Eymard, L., Tournadre, J., 2003b "SSM/I integrated water vapor content measurements in coastal regions: a comparison with shipborne and airborne remote sensing measurements, radiosonde measurements and NWP model retrievals" *J. Geophys. Res.*, 108, No C3, 25 pp.
- Freilich, M.H. y Guza R.T., 1984 "Nonlinear effects on shoaling surface gravity waves" *Pjil. R. Soc. Lond. Ser. A* 311: 1-41
- García, M. A., Sánchez-Arcilla, A., Sierra, J.P., J. Sospedra y Gómez, J., 1993. Wind waves off the Ebro Delta, NW Mediterranean. *Journal of Marine System*, 4(1993) 235-262. Elsevier Science Publishers B. V., Amsterdam.
- García, M.A. 1982 "Aproximacion al comportamiento estadístico del viento en el delta del ebro. Estudio de la velocidad escalar" *Investigación pesquera*, 46, 3, 349-377
- García, M.A., Ballester, A., 1984 "Notas acerca de la meteorología y la circulación local en la region del delta del Ebro" *Investigacion Pesquera*, 48,3 469-493
- Garrat, J.R. 1977 "Review of drag coefficients over oceans and continents" *Mon. Weather Rev.* 105, 915-929
- Geernaert, G., F. Hansen, M.Courtney y T. Herbers, 1993 "Directional attributes of ocean surface wind stress vector", *J. Geophys. Res.*, Vol. 98, 16, 571-582.
- Geernaert, G.L., 1988, "Drag coefficient modelling for the near coastal zone" *Dyn. Atmos. Oceans.*, 11, 307-322
- Gelci, R. Cazale, H., y Vassal, J., 1956 "Prevision de la houle. La methode des densities spectroangulaires (Prediction of waves. The method of frequency-directional spectral densities)" *Bull. Inf. Comite Central Oceanogr. DEtude cotes*, 9, 416-435 pp
- Goda, Y., 1976 "On Wave Groups", *Proc. Conf. Behaviour of Offshore Structures*, Trondheim, Norway.
- Goda, Y., 1988 "Statistical variability of sea state parameter as a function of wave spectrum", *Coastal Eng. in Japan*, *JSCE*, Vol. 31, 2, 39-52.
- Gómez J., Sánchez-Arcilla, A., Puigdefabregas, J., Sospedra, J. y Ponce de León, S., 2001. Clima marítimo en la costa catalana. Implicaciones para predicción de oleaje. Comunicación oral en VI Jornadas Españolas de Ingeniería de Costas y Puertos. Palma de Mallorca (España).
- Grachev, A.A., Fairall, C.W., Hare, J.E., Edson, J.B., Miller, S.D., 2003 "Wind stress vector over ocean waves" *Journal of Physical Oceanography*, Vol. 33, 2408-2429
- Gremare A., Amouroux, J.M., Cauwet, G., Charles, F., Courties, C., De Bovee, F., Dinet, Al., Devenon, J.L., Madron, X.D., Ferre, B., Fraunie, P., Joux, F., Lantoine, F., Lebaron, P., Naudin, J.J., Palanques, A., Pujopay, M., Zudaire, L., 2003 "The effects of a strong winter storm on physical and biological variables at the shelf site in the Mediterranean" *Oceanologica Acta*, 26,4, 407-419 pp.
- Guedes-Soares, C. y Nolasco, M. C., 1992 "Spectral Modelling of Sea States With Multiple Wave Height", *Journal of Offshore Mechanics and Artic Engineering*, vol. 114, 278-284.
- Guedes-Soares, C., 1984 "Representation of Double-Peaked Sea Wave Spectra", *Ocean Engineering*, vol. 11, 185-207.

- Guedes-Soares, C., y Henriques, A. C., 1998 "Fitting a double-peak spectral model to measured wave spectra", 17th International Conference on Offshore Mechanics and Arctic Engineering, ASCE, Lisboa.
- Gunther H. y Rosenthal, W., 1989 "Interpretation of wave model validation statistics" International Workshop on Wave hindcasting and Forecasting. Vancouver, B.C. 203-212
- Gunther, H., Rosenthal, W., y Dunckel, M., 1981 "Response of surface gravity waves to changing wind directions" J Phys. Oceanography, 11, 718-728 pp
- Hashimoto N., Haagsma, I.G. y Holthuijsen, L, 2002 "Four wave interactions in SWAN" International conference on coastal engineering. Paper no 214
- Hasselmann K., 1960 "Schiffstechnik", 1 191-195
- Hasselmann K., Barnett, T.P., Bouws, E., Carlson, H., Cartwright, D.E., Enke, K., Ewing, J.A., Gienapp, H., Hasselmann, D.E., Kruseman, P., Meerburg, A., Muller, P., Olbers, D.J., Richter, K., Sell, W., Walden, H., 1973 "Measurements of wind-wave growth and swell decay during the joint North Sea Wave Project (JONSWAP)" Dtsch. Hydrogr Z. Suppl" 12, A8
- Hasselmann, D.E., Dunckel, M. y Ewing, J.A.,, 1980 "Directional wave spectra observed during JONSWAP 1973" J. Phys. Oceanogr., 11, 718-728
- Hasselmann, S. y Hasselmann K., 1981 "A symmetrical method of computing the non-linear transfer in a gravity-wave spectrum" Hamb, Geophys. Einzelschr. Serie A. 52, 138 p.
- Hasselmann, S., Hasselmann, K., Allender, J.H., Barnet, T.B., 1985 "Computations and parameterisations of the nonlinear energy transfer in a gravity wave spectrum part 2" Journal of Physical Oceanography 15, 1378-1391
- Hellerman S. y Rosenstein, M., 1983 "Normal Monthly wind stress over the world ocean with error estimates" Journal of Physical Oceanography, V. 13,1093-1104pp
- Hersbach, H. y Janssen, P. A. E. M., 1999 "Improvement of the Short-Fetch behavior in the wave ocean model (WAM)". Journal of Atmospheric and Oceanic Technology. Volume 16. Page 884-892.
- Hersbach, H., 1996 " On the improvement of the WAM cycle 4 model for small grid spacings, KNMI memorandum OO-96-01. 4 pp.
- Hersbach, H., 1998 "Application of the adjoint of WAM model to inverse wave modeling" Journal of geophysical research, vol 103, no C5, 10,469-10487
- Holthuijsen, L.H. y Kuik A.J., Mosselman E., 1987 "The response of wave directions to changing wind directions" J. Phys. Oceanogr., 17, 845-853.
- Holthuijsen, L.H., Herman A., Booij N, y Cieslikiewicz, 2002 "Diffraction in SWAN" ICCE 2002 Cardif, paper No 215.
- Horikawa, K., Kuo C. T., 1966 "A study of wave transformation inside surf zone" proceedings of the 10th international conference on coastal engineering, vol 1 American Society of civil Engineers, new York 217-233 pp
- Hsu, S.A., Xiongping, Z., Blanchard, B., 2000 "An evaluation of nine dimensionless fetch limited wind wave interaction formulas for the northeast Gulf of Mexico" Journal of Coastal Research, V 16, N 4, 1063-1067 pp
- Huang, N., 1999 "A view of coastal wave modeling: the physical and mathematical problems" en Huang N. et al. 1999 "Advances in coastal and ocean engineering" Vol 4. World Scientific Publishing Ltd.
- Huang, N.E., Bliven, L.F., Long, S.R., De Donibus, P.S. 1986 "A study of the relationship amongst wind speed, sea state, and drag coefficient for developing wave field" J. Geophys. Res., 91, 7733-7742.
- Hurdle, D.P. y Stive, R.J., 1989 "Revision of SPM 1984 wave hindcast model to avoid inconsistencies in engineering applications" Coastal Engineering, 12, 339-351 pp
- Hwang, P.A. y Shemdin O.H., 1988 "The dependence of sea surface slope on atmospheric stability and swell conditions" J. Geophys. Res. C93, 13903-13912
- Hwang, P.A., Atakturk, S., Sletten, M.A. y Trizna, D.B., 1996 A study of the wave number spectra of short water waves in the ocean" J. Phys. Oceanogr., 26, 1266-1285
- Jackson, F. y Jensen, R., 1998 "Directional response of wind waves to a large shift" Journal of Physical Oceanography, Vol 29 2829-2850
- Janssen, P.A.E.M., 1989 "Wave-induced stress and the drag of air flow over sea waves" journal of physical oceanography, 19 745-754 pp
- Janssen, P.A.E.M., 1991 "Quasi-linear theory of wind generation applied to wave forecasting" Journal of Physical Oceanography, 21 1631-1642
- Jeffreys, H., 1925 "On the formation of waves by wind" Proc. Roy. Soc., A110, 341-347

- Jimenez, Q.J.A., 1996 "Evolución Costera en el Delta del Ebro. Un proceso a diferentes escalas de tiempo y espacio" Tesis de doctorado, Universidad Politécnica de Cataluña, 274 pp.
- Johnson, H.K. y Hansen K.H. 2000 "Influence of bottom friction on sea surface roughness and its impact on shallow water wind wave modeling" *Journal of Physical Oceanography*, 1743-1756
- Johnson, H.K., Vested, H.J., Hersbach, H., Hojstrup, Larsen, 1998 "The coupling between wind and waves in the Wam Model" *Journal of Atmospheric and Oceanic Technology* Vol 16 1780-1790
- Jones, I., Volkov, Y., Toba, Y., Larsen, S., Huang, N.E., 2001, "Overview" en Jones I., Toba Y. "Windstress over the ocean" Cambridge University press Impreso en EUA 1 –33 pp 307 pp
- Kaiser, R., Weiler, B., Niemeyer, H., 2000 "Evaluation of design waves for coastal protection structures in the Wadden Sea" *Coastal Engineering*, 572-582
- Kitaigorodskii, S.A. y Volkov Y.A. 1965 "On the roughness parameter of the sea surface and calculations of momentum flux in the near-water layer of the atmosphere" *Izv. Atm Ocean. Phys.* 1, 973-988
- Kitaigorodskii, S.A., 1983 "On the theory of the equilibrium range in the spectrum of wind-generated gravity waves" *J. Phys. Oceanogr.* 13, 816-827.
- Kitaigorodskii, S.A., Krasitskii, V.P., y Zaslavskii, M.M., 1975 "On Phillips theory of equilibrium range in the spectra of wind-generated gravity waves" *J. Phys. Oceanogr.* 5, 410-417.
- Komen, G. J., L. Cavaleri, M. Donelan, K. Hasselmann, S. Hasselmann y P. A. M. Janssen, 1994 "Dynamics and Modelling of Ocean Waves". Cambridge University Press, 532 pp
- Komen, G.J. Hasselmann, S. y Hasselmann K., 1984 "On the existence of a fully developed wind-sea spectrum" *Journal of Physical Oceanography*, 14, 1271-1285 pp
- Korteweg, D.J. de Vries, G., 1895 "On the change of form of long waves advancing in a rectangular canal and on a new type of long stationary wave" *Phil. Mag*, 39, 422-443
- Krylov, Y.M., 1966 "Spectral Method of studying and predicting of wind waves" *Gidrometeoizdat, Leningrad*, 256 pp
- Krylov, Y.M., Duginov, B.A., Galenin, B.G., Krivitskii, S.W., Podmogilnyj, I.A., Polyakov, J.P., Popkov, R.A., Strekalov, S.S., 1986 "Wind, Waves and marine Harbors" *Gidrometeoizdat, Leningrad*, 264 pp
- Kuik, A.J., Vledder van, G. Ph., Holthuijsen, L.H., 1988 "A method for the routine analysis of pitch and Roll Buoy Wave Data" *Journal of Physical Oceanography*, Vol. 18, 1020-1034
- Lange, B., Johnson, H.K., Larsen, S., Hojstrup, J., Kofoed-Hansen, H., Yelland, M.J., 2004 "On detection of a wave age dependency for the sea surface roughness" *J. Phys. Oceanogr.*, 34, 1441-1458
- Large, W.G. y Pond, S., 1981 "Open ocean momentum flux measurements in moderate to strong winds", *J. Phy. Oc.*, 11, 324-336
- Li, P.Y., Xu, D., y Taylor, P.A., 2000 "Numerical modelling of turbulent airflow over waterwaves", *boundary-Layer Meteorol.*, 95, 397-425.
- Liu, P. C., 1983, "A representation for the frequency spectrum of the Wind-Generated Waves", *Ocean Engineering*, Vol. 10, nº 6, 429-441.
- Liu, P., Schwab, D., Jensen, R., 2002 "Has wind-wave modeling reached its limit?" *Ocean Engineering* 29, 81-98.
- Longuet-Higgins, M. S., 1957, The statistical analysis of a random, moving surface, *Phil. Trans. Roy. Soc. London*, Ser.A (966) 249, 321-387.
- Longuet-Higgins, M. S., 1975, "On the statistical distribution of the peak periods and amplitudes of sea waves" *J. Geoph. Res.*, 80, 2688-2694.
- Lopatoukhin, L., A. Boukhanovsky, A. Degtyarev, K. Sasrov, V. Rozhkov, G. Athanassoulis, C. Stefanakos, H. Krogstad, 2002, The spectral wave climate in the Barents Sea, *Proc. of OMAE 2002: 21th Int. Conf. on Offshore Mechanics and Arctic Engineering*, Oslo, Norway.
- Luo, W. y Monbaliu J., 1994 "Effects of the bottom friction formulation on the energy balance for gravity waves in shallow water" *J. Geophys. Res.* 99, 18501-18511
- Lygre, A. y Krogstad, H.E., 1986, Maximum entropy estimation of the directional distribution in ocean wave spectra, *J. Phys. Ocean.* Vol. 16, 2052-2060.
- Madsen, O.S., 1994 "Spectral wave-current Bottom Boundary layer flows, Apendix A: Spectral wave energy dissipation" *Coastal Engineering*, proceedings of the 24 international conference.
- Madsen, O.S., YK Poon, and HC Graber, 1988 "Spectral wave attenuation by bottom friction: theory" *Proc. 21 th Int. Conf. Coastal Engineering*, ASCE, 492-504
- Makin, V.K. y Kudryavtsev, V.N., 2002 "Impact of dominant waves on sea drag" *Boundary-Layer Meteorology* 103: 83-99

- Makin, V.K., 2003 "A note on a parameterization of the sea drag" *Boundary-Layer Meteorology*, 106: 593-600
- Massel, S.R. 1996 "Ocean Surface Waves: Their physics and Predictions" advanced Series On Ocean Engineering – Volume 11 Edit. World Scientific 491 pp.
- Massel, S.R., 1989 "Hydrodynamics of coastal zones" Elsevier Science publ. Comp., Amsterdam, 336 pp.
- Masson, D., 1990 "Observations of the response of sea waves to veering winds" *J. Phys. Oceanography*, 20, 1876-1885
- Mastenbroek, C., 1996 "Wind wave interaction" Ph.D Tesis, Delft technical University, Delft. Holanda, 119 pp.
- Medina, J.R. y Hudspeth, R.T., 1987 "Sea states defined by wave height and period functions" *Proc. IAHR seminar wave analysis and generation in laboratory basins*, 22nd IAHR congress, 249-259
- Meirink, J.F., Makin, V.K., Kudryavtsev, V.N., 2003 "Note on the growth rate of water propagating at an arbitrary angle to the wind" *Boundary-Layer Meteorology*, 106: 171-181
- Mete Uz, B., Donelan, M.A., Hara, T., Bock, E., 2002 "Laboratory studies of wind stress over surface waves" *Boundary-Layer Meteorology*, 102, 301-331
- Miles, J.W., 1957 "On the generation of surface waves by shear flows". *J. Fluid Mech.*, 3, 185-204.
- Mitsuyasu, H., 1970, "On the growth of wind-generated waves – spectral shape of wind waves at finite fetch", *Proc. 17th Japanese Conf. Coastal Eng.*, JSCE, 1-7.
- Monbaliu J., 2003 "Spectral Wave models in Coastal Areas" 133–158 p. Capitulo en Lakhan 2003 "Advances in Coastal modeling" Elsevier Oceanography Series. Amsterdam. 595 p
- Monbaliu, J., Padilla-Hernández, R., Hargreaves, J., Carretero, J.C., Weimin, L., Sclavo, M., Gunther, H., 2000 "The spectral wave model, WAM adapted for applications with high spatial resolution" *Coastal Engineering* 41, 41-62
- Moon, I., Ginis, I., Hara, T., Tolman, H., Wright C., Walsh E., 2003 "Numerical Simulation of sea surface directional wave spectra under hurricane wind forcing" *Journal of Physical oceanography*, Vol. 33, 1680-1706.
- MOPU, 1998. Programa de Actuaciones en la Costa.
- Mori, N. y Hirakuchi, H., 2002 "Numerical coupling between wind and wave hindcasting" *International Conference in Coastal Engineering*. Paper No 83
- Muñiz, P.D.C.K., 1996 "Distribución de los nutrientes en el mediterráneo occidental, influencia de los factores físicos" Tesis de doctorado, Universidad Politécnica de Cataluña, 206 pp
- Neumann, E., 1953, *Ocean waves*, U.S. Navy Hydrographic Office Pub. No. 409.
- Noilhan, J. y Planton, S., 1989 "A simple parameterization of land surface processes for meteorological models", *Mon. Wea. Rev.* Vol 117, pp 536-549
- Ochi, M.K. y Hubble, E.N., 1976 "On six-parameter wave spectra" *Proc. 15th Coastal Eng. Conf.*, 1, 301-328
- Oliveira, H., 1997 "Parameterization of the effect of wind variability on wave growth applied to wave modelling" *The Global Atmosphere and Ocean System* Vol 5 pp 211-227
- Orbimage, 2002 "Global Imaging Information" www.orbimage.com
- Pawka, S.S., 1983 "Island shadows in wave directional spectra" *Journal of Geophysical Research*, Vol. 88, No. C4. 2579-2591
- Pawka, S.S., Inman, D.L., Guza, R.T., 1984 "Island sheltering of surface gravity waves: model and experiment" *Continental Shelf Research*, Vol 3, No 1. 35- 53
- Penning-Rowsell, E. y Fordham, M., 1994 "Floods across Europe. Hazard, modelling and management, Middl. U.P.
- Perrie, W. y Toulany, B., 1997 "Open Ocean response of waves to turning winds" *Journal of Physical Oceanography* Vol 27, 2055-2059 pp
- Pettersson, H., Graber H.C., Hauser, D., Quentin C., Kahma, K.K., Drennan W.M. Donelan M.A. 2003 "Directional wave measurements from three wave sensors during the FETCH experiment" *Journal of Geophysical Research*, Vol 108, No C3.
- Phillips, O. M., 1957: On the generation of waves by turbulent wind. *J. Fluid Mech.*, 2, 417-434.
- Phillips, O. M., 1977 "The dynamics of the upper ocean," second edition, Cambridge univ. Press, 366 pp
- Pickett, M.H., Tang, W., Rosenfeld, L.K., Wash, C.H., 2003 "Quikscat satellite comparisons with nearshore buoy wind data off the U.S. west coast" *Journ. Atmos. Ocean. Tech.*, 20, 1869-1880.
- Pierson, W. J. Jr, E., Neumann, R.W., James, 1955, "Practical methods of observing and forecasting ocean waves by means of wave spectra and statistics", U.S. Navy Hydrographic Office Pub. No. 603.

- Pierson, W.J. y Moskowitz, L. 1964 "A proposed spectral form for fully developed wind seas based on the similarity theory of S.A. Kitaigorodskii" *Journal geophysical research*, 69, 5181-5190
- Pinardi, N. y Woods, J., 2002 "Ocean forecasting. Conceptual basis and applications" Springer, 472 pp.
- Polnikov, V.G. 2004 "Optimized numerical wind wave model" Under review
- Ponce de León A. S., Sánchez-Arcilla, A., Gómez, J., Saurouni, A., 2000 "Wave forecasting in the north-westerns mediterranean. Sensitivity analyses" Poster presentation in Coastal Engineering ICCE. Sydney. Australia.
- Ponce de León, S. y Sánchez-Arcilla, A. 1999 "Sensitivity of a wave model to the wind input in the catalan coast" *Wind & wave climate 99 – International medcoast conference on the wind and wave climate in the mediterranean and black sea*. Ed. E. Ozhan, Atalya, Turkey, March 30-April 2, 1999 pp 111-121
- Ponce de Leon, S., Sanchez-Arcilla, A., Gomez, J., Bolaños, R., 2002 "Wave predictions near the coast, uncertainties and implications" ICCE, Poster No 261
- Prevosto, M., 1998 "Effect of directional spreading and spectral bandwidth on the nonlinearity of the irregular waves" *Proceedings of the eighth International offshore and polar engineering conference*, Montreal, Canada.
- Puig, P., Palanques, A., Guillen, J., 2001 "Near-bottom suspended sediment variability caused by storms and near-inertial waves on the Ebro mid continental shelf (NW mediterranean)" *Marine geology*, 178, 81-93.
- Ris, R.C., 1997 "Spectral modelling of wind waves in coastal areas" *Communications on Hydraulic and Geotechnical Engineering*, Delft University of technology, 157 pp.
- Ris, R.C., Holthuijsen, L.H., Booij, N., 1999 "A third generation wave model for coastal regions, 2 Verification" *Journal of Geophysical Research* Vol 104 No. C4 7667-7681pp
- Rivero, F.J., Sanchez-Arcilla, A., Carci, E., 1997 "Implementation of diffraction effects in the spectral wave energy conservation equation" *Waves* 1997
- Rogers, E.W. y Wittmann, P.A., 2002 "Quantifying the role of wind field accuracy in the U.S. navy's global ocean wave nowcast/forecast system" *Proc 7th International Workshop on wave hindcasting and forecasting*, Alberta, Canada.
- Rogers, E.W., Hwang, P.A., Wang, D.W., 2003 "Investigation of wave growth and decay in the SWAN Model: three regional scale applications" *Journal of Physical Oceanography*, V 33, 366-389.
- Royo, I., 2001 "Análisis del clima de oleaje en la costa catalana" *Tesina de especialidad*, Universidad Politecnica de Cataluña. 130 pp
- Rye, H., 1977, "The Stability of Some Currently Used Wave Parameters", *Coastal Engineering*, vol. 1, 17-30.
- Sanchez-Arcilla, A. Jimenez, J.A. y Valdemoro, H.I., 1998 "The Ebro delta: morphodynamics and vulnerability" *Journal of Coastal Research*, 14(3), 754-772
- Sarpkaya, T. y Isaacson, M.St.Q., 1981 "Mechanics of wave forces on offshore structures" *Van Nostrand Reinold*, New York, 651 pp
- Sasamori, T., 1972 "Radiative cooling calculation for application to general circulation experiments", *J.Appl Meteor*, Vol 7 pp 721-729
- Shore Protection Manual (SPM) 1984. U.S. Army Coastal Engineering Research Center, Fort Belvoir, Vol I y II
- Silva, A. y A. Pires, 1988 "Spectral Description of the West Coast of Portugal (empirical approach)", MSc Thesis, Technical University of Lisbon, Instituto Superior Técnico.
- Skjeltbreia, L. y Henderson, J.A., 1961 "Fifth order gravity wave theory" *Proc 7th Conf Coastal engineering*, ASCE, 184-196
- Skliris, N., Lacroix, G., Djenidi, S., 2004 "Effects of extreme meteorological conditions on coastal dynamics near a submarine canyon" *Continental Shelf Research*, 24, 1033-1045.
- Smith, S.D., 1980 "Wind stress and heat flux over the ocean in gale force winds" *J. Phy. Oc.*, 10, 709-726
- Smith, S.D., Anderson, R.J., Oost, W.A., Kraan, C., Maat, N., deCosmo, J., Katsaros, K.B., Davidson, K.L., Bumke, K., Hasse, L., Chadwick, H.M., 1992 "Sea surface wind stress and drag coefficients: the HEXOS results" *Boundary-Layer Meteorol.* 60, 109-142 pp
- Snyder, R.L., Dobson, F.W., Elliot, J.A., Long, L., 1981 "Array measurements of atmospheric pressure fluctuations above surface gravity waves" *Jour. Fluid Mech.*, 102, 1-59 pp
- Stansberg, C.T., 1995 "Effects from directionality and spectral bandwidth on nonlinear spatial modulations of deep-wwater surface gravity wave trains", *proc. 24th ICCE*, vol 2, pp 579-593

- Stokes, G.G., 1947 "On the theory of oscillatory waves" *Trans. Cam. Phil. Soc.*, 8, 441-455
- Strekalov, S. S., Tsyploukhin, V. P. y Massel, S. T., 1972, *Structure of Sea Wave frequency Spectrum*, Proceedings of the 13th Coastal Engineering Conference, ASCE, Vol. 1, 307-314.
- Strekalov, S.S. y Massel, S.R., 1971 "On the spectral analysis of wind waves" *Arch, Hydrot* 18, 457-485 pp
- Stull, R.B., 1988 "An introduction to boundary layer meteorology" *Atmospheric sciences Library*, Kluwer Academic Publishers, Dordrecht, 666 p.
- Sverdrup, H.U. y Munk, W.H., 1947 "Wind, sea and swell; theory of relations for forecasting" U.S. Navy Hydrographic Office, H.O., Publ. No. 601
- SWAMP group, 1985 "Sea wave modeling project (SWAMP). An intercomparison study of wind wave predictions models, part 1: principal results and conclusions", in: *Ocean wave modeling*; Plenum, New York, 256 p.
- Therry, G. y Lecarrere, P., 1983 "Improving the eddy kinetic energy model for the planetary boundary layer description", *Bound Lay Met* Vol. 25, pp 63-88
- Toba, Y., Jones I., 2001 "The Influence of unsteadiness" en Jones I., Volkov Y., Toba Y., Larsen S., Huang N.E. 2001 en Jones I., Toba Y. "Windstress over the ocean" Cambridge University press Impreso en EUA 1 -33 pp 307 pp
- Toba, Y., Jones, I.S.F., Ebuchi N, Kawamura, H., 1996 "The role of gustiness in determining the aerodynamic roughness of the sea surface" *The air-sea interface*, M.A. Donelan, W.H. Hui and W.J. Plant, Eds. Univ. Miami Press 407-412 pp
- Tolman, H, 2002a "Limiters in third-generation wind wave models" *the global atmosphere and ocean system*, vol 8, No. 1, pp 67-83
- Tolman, H.L., 2002b "Alleviating the garden sprinkler effect in wind wave models" *Ocean Modelling*, 4, 269-289.
- Tolman, H.L., y Chalikov, D., 1996 "Source term in a third generation wind wave model" *J. Phys. Oceanography*, 20, 705-721 pp
- Toman, H.L., 2003 "Treatment of unresolved islands and ice in wind wave models" *Ocean modelling*, 5, 219-231 pp
- Tozer, N. y Durand N., 2002 "Improved coastal wave modelling using coupled spectral wave transformation and wave disturbance models" *International Conference in Coastal Engineering*. Paper No 241
- Tucker, M. J., 1994 "Nearshore waveheight during storms", *Coastal Eng.*, Vol. 24, 111-136.
- Vickers, D. y Mahrt, L., 1997 "Fetch limited drag coefficients" *Boundary-Layer Meteorology*, 85, 53-79
- Vledder van, G. Ph., 1992 "Statistics of wave group parameters" *International conference on Coastal Engineering*, 946-959
- Vledder van, G. y Holthuijsen, L.H., 1993 "The directional response of ocean waves to turning winds" *Jpurnal of Physical Oceanography* Vol 23, 177-192pp
- WAMDI Group, 1988 "The WAM model - A third generation ocean wave prediction model", *J. Phys. Oceanogr.*, 18, 1775-1810
- Wang, D.W. y Hwang, P.A., 2001, "Evolution of the bimodal directional distribution of ocean waves" *J. Phys. Oceanogr.*, 31, 1200-1221
- Waseda, T., Toba, Y., y Tulin, M. P. 2001 "On the adjustment processes of wind waves to sudden changes of the wind speed" *J. oceanography*
- Weber, S. L., 1991 "Eddy-viscosity and drag-law models for random ocean wave dissipation" *J. Fluid. Mech.* 232, 73-98.
- Weisse, R. y Feser, F., 2003 "Evaluation of a method to reduce uncertainty in wind hindcasts performed with regional atmosphere models" *Coastal Engineering*, 48, 211-225
- Weissman, D.E., Bourassa, M.A., O'Brien, J., Tongue, S., 2003 "Calibrating the Quikscat/SeaWinds radar for measuring rainrate over the oceans" *IEEE Transactions on geoscience and remote sensing*, vol 41, no. 12, 2814-2820.
- Weissman, D.E., Plant, W.J. y Stolte, S., 1996 "Response of microwave cross section of the sea to wind fluctuation" *J. Geophys. Research.* 101, C12149-12161
- Wiegel, 1982, *Wave forces on offshore structures*, Proceedings of Coastal Structures '79, American Society of Civil Engineers, 809-837.
- Wittmann, P.A. y Clancy, M., 1991 "Implementation and validation of a third-generation wave model for the Mediterranean sea" *Conference Proceedings MTS-91*

- Wright, C.W., Walsh, E.J., Vandemark, D., Krabill, W.B., Garcia, A.W., Houston, S.H., Powell, M.D., Black, P.G., Marks, F.D., 2001 "Hurricane directional wave spectrum spatial variation in the open ocean" *Journal of Physical Oceanography*, Vol. 31, 2472-2488
- Wu, J., 1982 "Wind-stress coefficients over sea surface from breeze to hurricane" *Journal Geophysical Research*, 87, 9704-9706
- Wyatt, L. R., Green, J.J., Gurfel, K-W., Nieto Borge, J.C., Reichert, K., Hessner, K., Günther, H., Rosenthal, W., Saetrea, O., Reistad, M. 2003 "Validation and intercomparisons of wave measurements and models during the EuroROSE experiments" *Coastal Engineering* 48, 1-28
- Yelland, M. y Taylor, P.K, 1996 "Wind stress measurements from the open ocean" *J. Phys. Oceanog.*, 26, 541-558
- Young, I. R., L. A., Verhagen, M. L., Banner, 1995 "A note on the bimodal directional spreading of fetch-limited wind waves", *Journal of Geophysical Research*, vol. 100, n° C1, 773-778.
- Young, I.R., y Eldeberky, Y., 1998 "Observations of triad coupling of finite depth wind waves" *Coastal Engineering*, 33, 137-154 pp
- Young, R.I., S Hasselmann, K. Hasselmann 1987 "Computations of the response of a wave spectrum to a sudden change in the wind direction" *journal of Physical Oceanography*, 17, 1317 –1338
- Zack, J.W., Mattocks, C.A., Bousquet, M.D., 1991. A statistical-dynamical mesoscale thunderstorm forecast system for the Kennedy Space Center. Ninth Conference on numerical weather prediction, Denver. American Meteorological Society. 447-450
- Zaslavskii, M.M., 1982 "One-parametric approximation of the energetic range of frequency spectra" *Okeanologia*, 22, 916-921
- Zubier, K., Panchang, V., Demirbilek, Z., 2003 "Simulation of waves at duck (North Carolina) using two numerical models" *Coastal Engineering Journal*, Vol. 45, No. 3, 439-469

