

## EUROWAVES – List of Reports and Papers

|        |   |                               |
|--------|---|-------------------------------|
| SCR    | = | Scientific Reports            |
| PRR    | = | Project Reports               |
| ST-MAN | = | Status and Management Reports |
| MIM    | = | Minutes of Meeting            |
| TNO    | = | Technical Notes               |
| JPAP   | = | Journal Papers                |
| CPAP   | = | Conference Papers             |
| PLD    | = | Thesis                        |

| No.    | Title/presented  | Author(s)  |
|--------|--|--|
| SCR 1  | Comparison of WAM estimates of $H_s$ with TOPEX/POSEIDON altimeter data in the Mediterranean Sea; a comparison of low and high resolution wind models.             | G. Mørk and S.F. Barstow, OCEANOR.   |
| SCR 2  | Comparison of WAM estimates of $H_s$ with TOPEX/POSEIDON altimeter data in European Atlantic waters; a comparison of low and high resolution wind models           | G. Mørk and S.F. Barstow, OCEANOR  |
| SCR 3  | Definition of spectral wave parameters and offshore wave climate   | G.A. Athanassoulis and Ch.N. Stefanakos, NTUA  |
| SCR 4  | Survey, assessment and acquisition of measured data from Spanish buoy network  | G.A. Athanassoulis, Th.D. Zorbas, Ch.N. Stefanakos and Th.P. Gerostathis, NTUA.  |
| SCR 5  | Coastline & Bathymetry of the European "Nearshore Area"  | G.A. Athanassoulis, Ch.N. Stefanakos T.P. Gerostathis and H. Holevas, NTUA.  |
| SCR 6  | Offshore-to-Nearshore (OtN) transformation of wave climate   | G.A. Athanassoulis and K.A. Belibassakis, NTUA   |
| SCR 7  | Selection of offshore datapoints   | NTUA-group (G.A. Athanassoulis, Ch.N. Stefanakos, Th.D. Zorbas, Th.P. Gerostathis, H. Holevas), ISDGM-group (L. Cavaleri, L. Bertotti), OCEANOR-group (S.F. Barstow, G. Mørk). |
| SCR 8  | Wave-data pre-processing and processing. Implementation for wave climate description   | G.A. Athanassoulis and K.A. Belibassakis, NTUA   |
| SCR 9  | The evaluation of the boundary conditions for the nearshore grids  | L. Cavaleri, ISDM  |
| SCR 10 | Long term hindcast of the wave conditions in the Baltic Sea  | L. Bertotti, L. Cavaleri, M. Sclavo, ISDGM   |
| SCR 11 | Long term hindcast of the wave conditions in the Black Sea   | L. Bertotti, L. Cavaleri, M. Sclavo, ISDGM   |
| SCR 12 | On the definition of offshore wave conditions for their transport to the target location   | L. Cavaleri, ISDGM   |
| SCR 13 | The logical flow of actions and information in the pre-modelling, modelling and post-modelling phases of the Eurowaves operational product. (Preliminary version). | ISDGM-group (L. Cavaleri, L. Bertotti), NTUA-group (G.A. Athanassoulis, Ch.N. Stefanakos, Th.D. Zorbas, Th.P. Gerostathis, H. Holevas), OCEANOR-group (S.F. Barstow, G. Mørk). |

| No.    | Title/presented   | Author(s)  |
|--------|---|--|
| SCR 14 | The choice of the offshore points and the determination of the local computational grid (Preliminary version).                    | ISDGM-group (L. Cavaleri, L. Bertotti), NTUA-group (G.A. Athanassoulis, Ch.N. Stefanakos, Th.D. Zorbas, Th.P. Gerostathis, H. Holevas), OCEANOR-group (S.F. Barstow, G. Mørk). |
| SCR 15 | On the transfer of the wave conditions from a coarse to a fine resolution grid in coastal areas (from 1.5-0.5 degree resolution). | L. Cavaleri, ISDGM   |
| SCR 16 | Validation of wave data from BSH, Hamburg, in the North Sea.  | G. Mørk and S.F. Barstow, OCEANOR  |
| SCR 17 | Offshore wave statistics: Tools and results   | NTUA-group (G.A. Athanassoulis, Ch.N. Stefanakos, Th.D. Zorbas, Th.P. Gerostathis, H. Holevas)   |
| SCR 18 | Analytic representation of multivariate distributions by means of kernel density functions with application to ocean wave data.   | G.A. Athanassoulis and K.A. Belibassakis, NTUA   |
| SCR 19 | Implementation of the Nearshore wave Statistics Module of the EUROWAVES Software Package  | NTUA-group (G.A. Athanassoulis, Ch.N. Stefanakos, Th.D. Zorbas, Th.P. Gerostathis, H. Holevas)   |
| SCR 20 | Curvilinear to Cartesian Mapping  | G.A. Athanassoulis and Th. Gerostathis, NTUA.  |
| SCR 21 | Altimeter Wave Period. Eurowaves Meeting, Tromsø 29-30 July 1999  | Harald E. Krogstad, NTNU   |
| SCR 22 | Calibration of the WAM data set vs. Topex wave height in the Mediterranean. August 1999.  | Harald E. Krogstad, NTNU   |
| SCR 23 | Transfer of offshore wave conditions to shore in the Holderness area.   | Mauro Sclavo and Luigi Cavaleri, ISDGM   |
| SCR 24 | Calibration of wave data in the probability domain, technical report on task 1.8.   | G.A. Athanassoulis and Ch.N. Stefanakos  |
| SCR 25 | Relevance of wind forcing in the SWAN model   | Mauro Sclavo and Luigi Cavaleri  |
| SCR 26 | Quality check of the EUROWAVES bathymetric data base  | G. A. Athanassoulis, K.A. Belibassakis, Ch. Stefanakos, Th. Gerostathis  |
| SCR 27 | Comparison of wave statistics from measured and model data in the Mediterranean waters of Spain                                   | G. A. Athanassoulis, Ch. Stefanakos  |
| SCR 28 | Comparison of wave statistics from measured and model data at Cape Arnaoutis/Morfou bay, Cyprus                                   | G. A. Athanassoulis, Ch. N. Stefanakos   |
| SCR 29 | SWAN implementation in the EUROWAVES user's interface and quality control of the system   | G. A. Athanassoulis, K.A. Belibassakis, Th. Gerostathis<br>ISDGM Group: L. Cavaleri, M. Sclavo   |
| SCR 30 | New TOPEX Hs algorithm  | S.F. Barstow, OCEANOR  |
| SCR 31 | Comparison of WAM estimates of Hs with TOPEX altimeter data in the Baltic and Black Sea   | G. Mørk, S.F. Barstow, OCEANOR   |
| SCR 32 | Generalization of the Massel swell spectrum   | L. Cavaleri, L. Bertotti and M. Sclavo   |

| No.    | Title/presented  | Author(s)   |
|--------|--|---|
| SCR 33 | Comparative calculation of the OtN wave climate transformation by using Venice and Swan in EUROWAVES S.P.                      | G. A. Athanassoulis, K.A. Belibassakis, Ch. Stefanakos, Th. Gerostathis               |
| SCR 34 | Preliminary analysis of buoy measurements from Algeciras site, Spain   | G.A. Athanassoulis and Ch. N. Stefanakos  |
| SCR 35 | The transfer of wave information from offshore to the nearshore area   | L. Bertotti, L. Cavaleri, M. Sclavo, ISDGM  |
| SCR 36 | An efficient approach to the study of wave climate in coastal waters – the modelling aspect                                    | M Sclavo, L. Cavaleri, ISDGM, S. Barastow, OCEANOR , G.A. Athanassoulis, NTUA         |
| SCR 37 | An efficient approach to wave climate analysis in coastal waters   | Mauro Sclavo, Luigi Cavaleri, ISDGM, G.A. Athanassoulis, NTUA, S.F. Barstow, OCEANOR. |
| SCR 38 | A methodology for integrating wave data from different sources permitting a multiscale description of wave climate variability | G.A. Athanassoulis and Ch. N. Stefanakos  |

| No.      | Title/presented   | Author(s)  |
|----------|---|--|
| PRR 1    | Survey, assessment and acquisition of measured data from Spanish buoy network. First Year Report Contribution on Task 1.1 and Task 1.2. | G.A. Athanassoulis, Th.D. Zorbas, Ch.N. Stefanakos and T.P. Gerostathis, NTUA. |
| ST-MAN/1 | Management Report for 1/11-97 to 30/4-98  |  |
| ST-MAN/2 | 1 <sup>st</sup> Year Management Report  | OCEANOR, NTUA, ISDGM   |
| ST-MAN/3 | 1 <sup>st</sup> Year Annual Report  | OCEANOR, NTUA, ISDGM   |
| ST-MAN/4 | 18 month Management Report  | OCEANOR, NTUA, ISDGM   |
| ST-MAN/5 | 2 <sup>nd</sup> Year Management Report  | OCEANOR, NTUA, ISDGM   |
| ST-MAN/6 | 2 <sup>nd</sup> Year Annual Report  | OCEANOR, NTUA, ISDGM   |
| MIM/1    | Kick-off meeting in March 1998  |  |
| MIM/2    | Minutes of meeting 3 <sup>rd</sup> and 4 <sup>th</sup> September 1998 in Kefallonia, Greece.  |  |
| MIM/3    | Minutes of meeting February 1999, Venic, Italy  |  |

| No.           | Title/presented   | Author(s)   |
|---------------|---|---|
| <b>JPAP 1</b> | Hindcast and forecast of the Parsifal storm; Il Nuovo Cimento C, 1998.                                    | L. Bertotti, L. Cavaleri (ISDGM), P. de Girolamo, S. Magnaldi (Dipartimento di Idraulica, Trasporti e Strade, Universita 'di Roma), L. Franco (Dipartimento di Scienze dell'Ingegneria Civile, Terza University di Roma). |
| <b>JPAP 2</b> | Characteristics of quadrant and octant advection schemes in wave models. Coastal Engineering, 34, 221-42. | L. Cavaleri and M. Sclavo   |
| <b>JPAP 3</b> | Advection scheme and grid design. Accepted for publication in Il Nuovo Cimento.                           | M. Sclavo and L. Cavaleri   |
| <b>JPAP 4</b> | The transfer of wind waves from the shelf to the coastal zone   | M. Sclavo and L. Cavaleri   |

| No.            | Title/presented  | Author(s)  |
|----------------|--|--|
| <b>CPAP 1</b>  | EUROWAVES – a user friendly tool for the evaluation of wave conditions at any European coastal location. Poster paper at the 3 <sup>rd</sup> European Marine Science and Technology Conference, 23-27 May 1998, Lisbon, Portugal.  | S.F. Barstow (OCEANOR) G.A. Athanassoulis (NTUA), L. Cavaleri (ISDGM), H.E. Krogstad (SINTEF Applied Mathematics)                                    |
| <b>CPAP 2</b>  | Development and Study of Green's Function for Water Waves Over Variable Bathymetry Domains. Presented at the International WAVE 98 Symposium; Ocean Wave Kinematics, Dynamics and Loads on Structures, Apr. 30 – May 1, 1998, Houston, Texas, USA.   | G.A. Athanassoulis (NTUA), K. A. Belibassakis ( Univ. of Athens)   |
| <b>CPAP 3</b>  | EUROWAVES: A User-Friendly Approach to the Evaluation of Nearshore Wave Conditions. Published in the Proceedings of the Ninth (1999) International Offshore and Polar Engineering Conference Brest, France. May 30-June 4, 1999.   | Luigi Cavaleri (ISDGM), G.A. Athanassoulis (NTUA), S. Barstow (OCEANOR).   |
| <b>CPAP 4</b>  | Hindcast and calibration of the wave conditions in the Black Sea. Presented at the International Medcoast Conference on Wind and Wave Climate in the Mediterranean and the Black Sea, 30 March – 2 April 1999, Dedeman Hotel, Antalya, Turkey.   | L. Cavaleri (ISDGM), L. Bertotti (ISDGM), J. Bidlot ECMWF, M. Sclavo (ISDGM), S. Barstow (OCEANOR), G.A. Athanassoulis (NTUA), C. Stefanakos (NTUA). |
| <b>CPAP 5</b>  | Eurowaves: the easy approach to the evaluation of the local wave climatology. Presented at the International Medcoast Conference on Wind and Wave Climate in the Mediterranean and the Black Sea, 30 March – 2 April 1999, Dedeman Hotel, Antalya, Turkey.   | Luigi Cavaleri (ISDGM), G.A. Athanassoulis (NTUA), S. Barstow (OCEANOR).   |
| <b>CPAP 6</b>  | EUROWAVES: An easy cost-effective approach to wave climate analysis in coastal waters with world-wide potential. To be presented at the Fifth International Conference on Coastal and Port Engineering in Developing Countries (COPEDEC V), Cape Town, South Africa, 19 <sup>th</sup> to 23 <sup>rd</sup> April 1999.                          | L. Cavaleri (ISDGM), S. Barstow (OCEANOR), G. A. Athanassoulis (NTUA).   |
| <b>CPAP 7</b>  | Eurowaves, an easy approach for local wave climatology. Presented at Coastal Engineering '99: Fourth International Conference on Coastal Modelling of Seas and Coastal Regions, Lemnos, Greece, May 26-28, 1999. (Published in Marine Technology III, Graczyk, T., Jastrzebski, T., and Brebbia, C.A. (editors), WIT Press, 2000, pp.143-152). | G. A. Athanassoulis (NTUA), S. Barstow (OCEANOR), L. Cavaleri (ISDGM)  |
| <b>CPAP 8</b>  | Sensitivity analysis on the transfer of the wave conditions to a coastal location: Presented at the International Medcoast Conference on: Wind and Wave Climate in the Mediterranean and the Black Sea, 30 March – 2 April 1999, Dedeman Hotel, Antalya, Turkey.   | M. Sclavo and L. Cavaleri (ISDGM)  |
| <b>CPAP 9</b>  | Sensitivity analysis on the transfer of the offshore wave conditions to a coastal location: Published in the Proceedings of the ISOPE 99 Conference, Brest, France, June 99.   | M. Sclavo and L. Cavaleri (ISDGM)  |
| <b>CPAP 10</b> | A Methodology for integrating Wave Data from different sources permitting a multiscale description of wave climate variability. Published in the proceedings of CLIMAR99: WMO Workshop on Advances in Marine Climatology, Vancouver, Canada, September 1999.   | G.A. Athanassoulis, Ch.N. Stefanakos, (NTUA), S. Barstow (OCN)   |

| No.            | Title/presented  | Author(s)   |
|----------------|--|---|
| <b>CPAP 11</b> | EUROWAVES: Integration of data from many sources in a user-friendly software package for calculation of wave statistics in European coastal waters. Proc. Oceanology International 2000 Conference, Brighton, UK, March 2000, pp. 269-277 (CD-ROM) | S. F. Barstow; Athanassoulis, M. and Cavaleri, L. |

| No.          | Title/presented   | Author(s)  |
|--------------|---|--|
| <b>TNO1</b>  | A European-wide offshore /nearshore statistical toolbox and data base for timely wave climate assessment. Technical note presented at the Kick-off meeting. | G.A. Athanassoulis, K.A. Belibassakis, Ch.N. Stefanakos, Th.P. Gerostathis, Th.D. Zorbas. NTUA |
| <b>TNO2</b>  | Comparison of $H_s$ from WAM models T213 and era vs. TOPEX altimeter data – Some preliminary results 1998-07-10.  | G. Mørk, OCEANOR.  |
| <b>TNO3</b>  | Overview of measured wave data in Europe. Preliminary results June 98.  | S.F. Barstow, OCEANOR.   |
| <b>TNO4</b>  | Replaced by SCR 3   | .  |
| <b>TNO5</b>  | Replaced by SCR 4   |  |
| <b>TNO6</b>  | Preliminary selection of offshore datapoints.   | G.A. Athanassoulis, Ch.N. Stefanakos T.P. Gerostathis and H. Holevas, NTUA.                    |
| <b>TNO7</b>  | Replaced by SCR 5   |  |
| <b>TNO8</b>  | Replaced by SCR 6   |  |
| <b>TNO9</b>  | Retrieval of wave data from the ECMWF MARS archive.   | L. Cavaleri, ISDGM   |
| <b>TNO10</b> | Calibration of the WAM data set vs. TOPEX wave height in the Mediterranean  | Harald E. Krogstad, NTNU   |
| <b>TNO11</b> | Synthetic spectra some informal thoughts  | Harald E. Krogstad, NTNU   |
| <b>TNO12</b> | Generation of Synthetic Wave Spectra from Sea State Parameters  | Harald E. Krogstad, NTNU   |
| <b>TNO13</b> | The EUROWAVES measured data base  | Stephen F. Barstow, OCEANOR  |
| <b>TNO14</b> | Application of the derived nearshore information  | HYDROMARE, Greece  |
| <b>PLD1</b>  | Nonstationary stochastic modelling of time series with applications to environmental data.  | Ch.H. Stefanakos, NTUA   |