



## PERSONAL INFORMATION

Name ANNA KORTCHEVA  
Address 66 Tsarigradsko Chaussee, Sofia 1784, BULGARIA  
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Nationality bulgarian  
  
Date of birth 11.10.1954

## WORK EXPERIENCE

- Dates (from- to) 1980 - present
- Name and address of employer *National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences (NIMH-BAS)  
66 Tsarigradsko Chaussee, Sofia 1784, BULGARIA*
- Type of business or sector *Weather Forecasts Department, numerical modelling section*
- Occupation or position held Assoc. Prof. Senior researcher, Head of Marine Meteorology division.
- Main activities and responsibilities Implementation of numerical marine models for the Black Sea area at the NIMH-BAS , responsible for the operational system for marine forecasts for the Black Sea.

## EDUCATION AND TRAINING

- Name and type of organization providing education and training 1990 **PhD in Physics**  
National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences (NIMH-BAS)
- Principal subjects/occupational skills covered 1972-1977 **MS in Meteorology.** Sankt-Peterburg. Hydrometeorological Institute, Russia

LANGUAGES ENGLISH, RUSSIAN, GERMAN

ORGANIZATIONAL SKILLS AND COMPETENCIES	COORDINATIONS AND PARTISIPATION I <b>EU PROJECTS:</b> EU FP4 <b>MEDAR-MEDATLAS-II</b> , Mediterranean Hydrographic Atlas, EUF5 <b>ARENA</b> -A Regional Capacity Building and Networking Program to Upgrade Monitoring and Forecasting Activity in the Black Sea Basin 2003- 05; EU FP6 <b>ASCABOS</b> (A Supporting Programme for Capacity Building in the Black Sea Region towards Operational Status of Oceanographic Services , contract N 518063) EU FP7 project <b>UP-GRADE BS-SCENE</b> (N 226592), Up-Grade Black Sea Scientific Network, Contract NR. 226592, Project <b>DEBSEA</b> , 02/22 17.12.2009 . DEvelopment of a Black Sea branch of the european research infrastructure Euro-Argo - DEBSEA EU FP 7 <b>EnviroGRID</b> – Building Capacity for a Black Sea Catchment Observation and Assessment System supporting Sustainable Development. EU FP 7 IncREO – Increasing Resilience through Earth Observation, N312461, 2013-2014
TECHNICAL SKILLS AND COMPETENCIES	Working in Windows and UNIX/LINUX environment (in depth knowledge), Fortran programing etc.
Scientific skills, and experience	Marine numerical models: wave models VAG, Wavewatch3, WAM, processing and using altimetry data for wave model validation, coupling the atmospheric model to the ocean and wave models

#### Participation in the collaboration of NIMH-BAS and METEO FRANCE, NIMH-BAS and TOHOKU University, Japan

- 1996 - 2 months; The adaptation of the French VAG WAVE Model for the Sea State Forecasting in the Black sea Subdivision Prévision marine; Météo France; Toulouse.
- 1998 - 2 months; Numerical implementation of the french wave model VAG on VPP Fujitsu. Subdivision Prévision marine; Météo France; Toulouse.
- 1999 - 2 months; Use of the ERS-1, ERS-2 altimeter data for the verification of the wave model , Subdivision Prévision marine; Météo France ; Toulouse.
- 2000 - 12 months; Use of the High-resolution SAR derived wind for the wind-wave forecasts. Center for atmospheric and oceanic studies, TOHOKU University, Sendai, Japan
- 2001 (1) – 2 months; Numerical implementation of the new parameters for the VAG wave model, Subdivision Prévision marine; Météo France; Toulouse.
- 2001 (2) – 2 months Numerical implementation of the coastal zone wave model SWAN for the Gulf of Lion; Direction de la Prévision; Division Marine et Océanographie; Météo France; Toulouse.
- 2002 – 2 months; Intercomparison of the performance of three global ocean wave models with buoy data, Division Marine et Océanographie; Météo France; Toulouse.
- 2002 – 2 months; Numerical implementation of the WAVEWATCH III wave model. Division Marine et Océanographie; Météo France; Toulouse.
- 2003 – 4 months Intercomparison of the performance of operational Ocean Wave Forecasting systems with Buoy Data ; Météo France; Toulouse.

#### Publications in the area of marine forecasts:

- A. Kortcheva, G. Kortchev, J-M Lefevre, 2000. Operational numerical wind-wave model for the Black Sea. Mediterranean Marine Science; Volume 1, number 1; pp.65 - 70.
- A. Kortcheva, G. Kortchev, J-M. Lefevre, 2000. Operational numerical wind-wave model for the Black Sea. UNESCO, Black Sea GOOS Report N 1, pp. 49-55.
- G. Kortchev, G. Mungov, A. Kortcheva, P. Daniel., 2000. Operational forecasting of oil spill drift in the Black Sea. UNESCO, Black Sea GOOS Report N 1, pp. 56-61.
- Kortcheva A., H.Kawamura, 2001. Use of the SAR derived wind fields for the height resolution SWAN wave model. Center for Atmos. & Oceanic Studies, Tohoku Univ., Sendai, Japan
- Kortcheva A. Numerical implementation of the third generation coastal zone wave model SWAN version 40.11 for the Gulf of Lion. Meteo-France, Technical report, Toulouse 2001.
- Kortcheva A. Calculation of the new integrated parameters from the two-dimensional wave spectra. Technical Report of Meteo-France, 50p, Toulouse, 2001.
- Kawamura, H.; Shimada, T.; Shimada, M.; Kortcheva, A.; Watabe, I L-band SAR wind-retrieval model function and its application for studies of coastal surface winds and wind waves. , in Proceedings of the IEEE International Geoscience and Remote Sensing Symposium, Toronto (Canada) [Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International](#)
- Kortcheva A, 2002, Numerical implementation of the new parameters to the French wave model VAG, Internal report of Meteo-France, Toulouse, 95 p.

Kortcheva A, 2002, Intercomparison of the performance of three ocean wave models with buoy data, Internal report of Meteo-France, Toulouse, 120 p.

Jean Michel Lefevre, Anna Kortcheva, Simona Stefanescu, 2003, Performance of several wave forecasting systems for high swell conditions, ISOPE Paper No. 2003-MP-14.

G.Kortchev, A.Kortcheva, 2009. The operational marine forecasting system at NIMH-BAS. In Proc. NATO ARW Caspian and Black sea conference, Ferrara, Italy, 2-4 December, 2009

A.Kortcheva, M.Dimitrova, V.Galabov, A wave prediction system for real time sea state forecasting in the Black Sea,, *Bulgarian Journal of Meteorology & Hydrology*, vol.15, N2, 2010, p. 66.

Kortcheva, A. Kortchev, G, V.Galabov V., 2010.- A wave prediction system for real time sea state forecasting in the Black Sea, *Bulgarian Journal of Meteorology & Hydrology*, vol.15, N2,. 56-66.

V.Galabov, G.Kortchev, A.Kortcheva, 2011, Implementation of the operational system for the oil drift forecast at NIMH-BAS. *Bulgarian Journal of Meteorology & Hydrology*, vol.15, N5,. 41-48.

V.Galabov, G.Kortchev, A.Kortcheva, J.Marinski, 2011, Numerical simulations of oil spill drifts in the Bourgas Bay and contamination of port waters with oil products, *Submitted to the Journal Mediterranean. Marine Sciences*

Kortcheva, A., V.Galabov V., 2011,- Predicting oil spill movements, *Meteorological Technology International*, 55-56.

Kortcheva A, Kortchev G, Galabov V, Dimitrova M, Introduction to the NIMH-BAS marine forecasting system for the Black Sea. *Meteorological Technology World EXPO 2011*, Brussels, 18-20 October, 2011.

Marieta Dimitrova, Anna Kortcheva, Vasko Galabov, Validation of the operational wave model WAVEWATCH III against altimetry data from JASON-2 satellite, *Bul. J. Meteo & Hydro* 18/1-2(2013) 4-17

Vasko Galabov, On the parameterization of whitecapping and wind input in deep and shallow waters and the strategies for nearshore wave modeling in closed seas, *Bul. J. Meteo & Hydro* 18/1-2(2013), 18-38