Curriculum Vitae



Personal information

First name(s) / Surname(s)	Nataliya Kamenova Andreeva
Present employer	Institute of Oceanology – Bulgarian Academy of Sciences
Date of birth	18 December 1974
Address(es)	40 Parvi May Blvd., Varna, P.O. Box 152, Bulgaria
Telephone(s)	+359 52 370 493
Fax(es)	+359 52 370 493
E-mail	n.andreeva@io-bas.bg
Nationality	Bulgaria
Occupational field	Science and Research
Scientific indicators	https://www.scopus.com/authid/detail.uri?authorId=8633737700 https://www.researchgate.net/profile/Nataliya_Andreeva OCRID ID: https://orcid.org/0000-0003-4090-8016
Work experience	
Dates	2011-
Occupation or position held	Senior Assistant in the Field of higher education: code 4. "Natural Sciences, Mathematics and Informatics", Professional field: code 4.4. "Earth Sciences", Scientific specialty: "Oceanology", Coastal zone dynamics Department
Employer	Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria
Dates	2011-2007
Occupation or position held	Research Associate, 2 nd degree, Scientific specialty: code 01.08.07 "Oceanology", Coastal zone dynamics Department
Employer	Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria
Dates	2007-2004
Occupation or position held	Research Associate, 3 rd degree, Scientific specialty: code 01.08.07 "Oceanology", Coastal zone dynamics Department
Employer	Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria
Dates	2004-2003
Occupation or position held	Oceanologist, Coastal zone dynamics Department
Employer	Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria
Dates	2003-2000
Occupation or position held	Ph.D. student, Coastal zone dynamics Department
Employer	Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria
Scientific degrees	

Date 13.10.2013

Ph.D. Dearee

Affiliation Institute of Oceanology - Bulgarian Academy of Sciences, Varna, Bulgaria

English language, levels: IV: Upper Intermediate, V: Pre-Advanced, VI: Advanced

Space Research and Technology Institute - Bulgarian Academy of Sciences, Sofia, Bulgaria

Education, training and specialization

Dates 2009

2009-2008

Title of the training course/specialization

Name and type of organisation providing education, training and specialization

Title of the training

course/specialization

Name and type of organisation providing education, training and specialization

2008 Dates

Title of the training course/specialization

Dates

Name and type of organisation providing education, training and specialization

Dates

Title of the training course/specialization

Name and type of organisation providing education, training and specialization

> Title of the training course/specialization

> > Title of the training

specialization

Dates

course/specialization

Dates

Name and type of organisation providing education, training and specialization

Name and type of organisation

providing education, training and

ASCABOS - A Supporting program for Capacity building in the Black Sea region towards operational

Dates 2002

"MatLab and scientific research algorithms"

Training Centre of Bulgarian Academy of Sciences, Sofia, Bulgaria

2000

Master of Sciences

Title of the training English language, levels: II: Pre Intermediate, III: Intermediate

Language School "GLOBUS", Varna, Bulgaria

course/specialization Name and type of organisation providing education, training and

specialization Dates

1999-1998

Subject and title of qualification awarded Title of the training course/specialization

"Environmental Protection and Sustainable Development"

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"Introduction into ArcGIS" – parts I and II

"Introduction into geo data base organization"

Lloyd's Language Centre, Varna, Bulgaria

"Remote sensing of extreme natural disasters"

"Environmental monitoring by means of nano- and microsatellites"

"ESRI - Bulgaria" LTD., Sofia, Bulgaria

2008

"Numerical morpho-dynamic modeling with XBEACH model"

DELTARES, Delft, Holland

2007

"Black Sea coastal zone"

status of Oceanographic Services

Name and type of organisation providing education, training and specialization

Dates

Subject and title of qualification awarded

> Title of the training course/specialization

Name and type of organisation providing education, training and specialization

Personal skills and competences

Mother tongue(s) Other language(s)

Self-ass

University of Chemical	Technology and	Metallurgy, S	Sofia, Bulgaria
			, <u> </u>

1997-1992

Master of Sciences

Oceanology

Civil Marine Faculty, Naval Academy "N.Y. Vaptsarov", Varna, Bulgaria

Bulgarian

Define level: basic, good, excellent

sessment	Understanding					Speaking					Writing	
			Listening	Reading		Spoken interaction		Spoken production				
English		х	excellent	х	excellent	х	excellent	х	excellent	х	excellent	
Russian		х	excellent	х	excellent	х	excellent	х	excellent	х	excellent	

Fields of professional and scientific interests	Coastal zone dynamics, wind and wave climate, wind wave statistical and spectral analysis, non-linear waves and non-linear wave-wave interactions, remote (ground based) methods for coastal waters observation, hazard and risk assessment related to coastal flooding and erosion, stakeholders' mapping;
Technical skills and competences	Skilled at work and data post-processing from terrain coastal surveys: geodetic system for topographic measurements - Trimble SPS, single-beam echo-sounder – SonarMite, waves and current profiler - ADCP WorkHorse Sentinel.
Computer skills and competences	MS Windows, MS office (MS Word, MS Excel, MS PowerPoint), Internet, support and management of web systems (DotNetNuke). Programming and visualization in MatLab. Scientific mapping, analysis & digitizing software - Surfer, Grapher, ArcGIS;
Other skills and competences	2010, Cambridge Certificate in Advanced English
Membership in Scientific and/or Professional Institutions, Bodies, and Organizations:	2007- Varna Scientific and Technical Unions

Peichev, V., N. Andreeva, 1998. Division into morphodynamic systems of the Bulgarian Black sea coast, In: Protection and long-term stabilization of the slopes of the Black Sea coast, Ed. Y. Marinski, Academic Publishing House "Prof. Marin Drinov", Sofia, pp. 85-91;

Cherneva, Z., N. Valchev, P. Petrova, N. Andreeva, N. Valcheva, 2003. Off-shore wind wave distribution in Bulgarian part of the Black Sea, Proc. of IO-BAS, Varna, vol. 4, pp. 10-18, ISSN 00324-0878 (In Bulgarian).

Cherneva, Z., N. Andreeva, P. Petrova, 2004. Bispectral analysis of wind wave in the Black Sea coastal zone, Proc. of IO-BAS, Varna, vol. 5, pp. 65-79, ISSN 00324-0878 (In Bulgarian);

Cherneva, Z., P. Petrova, N. Andreeva, C. Guedes Soares, 2005. Probability distributions of peaks, troughs and heights of wind waves measured in the Black Sea coastal zone, In: Coastal Engineering, vol. 52, pp. 599-615, ISSN: 0378-3839 IF: 2.841 (2015-2016).

Andreeva, N., Z. Cherneva, 2007. Autoregressive (AR) bispectra of wind waves in the coastal zone. In: Comptes rendus de l'Academie bulgarie des Sciences, vol. 60, № 10, pp. 1093-1100, ISSN 1310-1331, IF: 0.233 (2015)

Trifonova, E., N. Andreeva, 2008. Peculiarities of wave energy impact on the coastal zone of Varna region, Problems of Geography, Sofia, vol. 3-4, pp. 134-146, ISSN 0204-7209 (In Bulgarian).

Cherneva, Z., N. Andreeva, P. Pilar, N. Valchev, P. Petrova, C. Guedes Soares, 2008. Validation of the WAMC4 model for the Black Sea, *Coastal Engineering*, vol. 55, pp. 881-893, ISSN: 0378-3839, IF: 2.841 (2015-2016);

Trifonova, E., N. Andreeva, 2008. Wave energy impact on the coastal zone. In: Comptes rendus de l'Academie bulgarie des Sciences, vol. 61, № 10, pp. 1323-1334, ISSN 1310-1331, IF: 0.233 (2015);

Saprykina, Y., S. Kuznetsov, Zh. Cherneva, N. Andreeva, 2009. Spatiotemporal variability of amplitude-phase structure of surge waves in the coastal zone of the sea, *Oceanology*, Moscow, vol. 49, No 2, pp. 182-192. ISSN PRINT: 0001-4370, IF: 0.324;

Keremedchiev, S., E. Trifonova, N. Andreeva, P. Eftimova, 2010. Assessment of vulnerability of coastal areas along Varna coast related to extreme hydro-climatic events in the western part of the Black Sea, *J. of Environmental protection and ecology*, Vol.11, No.3, 930-940. ISSN 1311-5065, IF: 0.324 (2015);

Ostrowski, R., Z. Pruszak, M. Skaja, M. Szmytkiewicz, E. Trifonova, S. Keremedchiev, N. Andreeva. 2010. Hydrodynamics and lithodynamics of dissipative and reflective shores in view of field investigations. *Archive of Hydro-Engineering and Environmental mechanics*, vol. 57, N 3-4, pp. 219-241, ISSN 1231-3726;

Andreeva, N., N. Valchev, E. Trifonova, P. Eftimova, D. Kirilova, M. Georgieva, 2011. Literary review of historical storm events in the western Black Sea. *Proc. of Union of Scientists – Varna, "Marine sciences"*, pp. 105-112. ISSN 1314-3379 (In Bulgarian);

Trifonova, E., N. Valchev, N. Andreeva, P. Eftimova, 2012. Critical storm thresholds for morphological changes in the western Black Sea coastal zone. *Geomorphology*, vol. 143–144, pp. 81–94. ISSN 0169-555X, IF: 2.813 (2015/2016);

Valchev, N., E. Trifonova, N. Andreeva, 2012. Past and recent trends in the western Black Sea storminess, *Nat. Hazards Earth Syst. Sci.*, vol. 12, pp. 1–17, doi: 10.5194/nhess-12-1-2012.

Valchev, N., E. Trifonova, N. Andreeva, 2012. Energy potential of sea waves at Varna coastal region, 2012. *Proc. of Naval Academy N.I. Vaptsarov*, vol. 30, pp. 113-116, ISSN 1312-0867 (In Bulgarian);

Valchev, N., E. Trifonova, N. Andreeva, P. Eftimova, 2012. Prototype of early warning system for coastal storm risk, 2012. *Proc. of Naval Academy N.I. Vaptsarov*, vol. 30, pp. 107-112, ISSN 1312-0867 (In Bulgarian)

Trifonova, E., N. Valchev, P.Galiatsatou, P. Eftimova, N. Andreeva, I. Kotsev, 2012. Assessment of coastal vulnerability to storm flood for Varna region under conditions of the present climate, 2012. *Proc. of Naval Academy N.I. Vaptsarov*, vol. 30, pp. 97-102, ISSN 1312-0867 (In Bulgarian);

Saprykina, Y., S. Kuznetsov, N. Andreeva, M. Shtremel, 2013. Scenarios of non-linear wave transformation in the coastal zone, *Oceanology*, vol. 53, No. 4, pp. 476-485;

Andreeva, N., 2013. Experimental method for investigation of wind wave no-linearity in the coastal zone, *Thesis abstract*, Academic Publ. House "Prof. Marin Drinov", p.30.

Valchev, N., Andreeva, N., Eftimova, P., Trifonova, E. 2014. Prototype of early warning system for coastal storm hazard (Bulgarian Black Sea coast), Compt. Rend. Acad. Bulg. Sci., vol. 67, No. 7, pp. 971-978;

Trifonova E., N. Valchev, S. Keremedchiev, I. Kotsev, P. Eftimova, V. Todorova, T. Konsulova, V. Doncheva, M. Flipova-Marinova, S. Vergiev, J. Petkov, R. Nikolaev, W. De Vries, R. Silva, N. Andreeva, P. Galiatsatou, D. Kirilova, Y. Krestenitis, A. Polonsky, I. Androulidakis, K. Kombiadou, R. Weisse, E. Mendoza, G. Dura´n, T. Karambas, T. Koftis, P. Prinos, S. Kuznetsov, Y. Saprykina, 2015. Mitigating Flood and Erosion Risk using Sediment Management for a Tourist City: Varna, Bulgaria, In book: Coastal Risk Management in a Changing Climate, Edition: 1st, Chapter 7 – Case Studies Worldwide, Subchapter 7.2, Publisher: Butterworth-Heinemann, Editors: Editor(s): Zanuttigh & Nicholls & Vanderlinden & Thompson & Burcharth, pp.358-384, ISBN: 978-0-12-397310-8, DOI: 10.1016/B978-0-12-397310-8.00007-5;

Prodanov, B., L. Dimitrov, N. Andreeva, St. Keremedchiev, 2017. Geomorphological setting of the coastal zone between cape Galata and cape Paletsa, Bulgaria Black Sea. In: Comptes rendus de l'Academie bulgarie des Sciences, vol. 70, № 8, pp. 1137-1142, ISSN 1310-1331.

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Prodanov, B. S. Keremedchiev, L. Dimitrov, N. Andreeva, 2019. Seabed morphology of the Varna bay coastal zone, Bulgarian Black Sea. In: Comptes rendus de l'Academie bulgarie des Sciences, vol. 72, № 8, pp. 1077-1085;

Conferences (national and international) with full papers, oral presentations, in-depth abstracts, abstracts, posters, etc. **Cherneva, Z., N. Valchev, N. Andreeva, P. Petrova, 2002.** Wind wave regime in the western part of the Black sea derived from coastal meteorological stations data, Proc. of the 7th International Conference on Marine Sciences and Technologies Black Sea'2002, Varna, Bulgaria, pp. 312-318, ISBN 954-90919-3-7.

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Keremedchiev, S., E. Trifonova, N. Andreeva, P. Eftimova, 2008. Assessment of vulnerability of coastal areas along Varna coast related to extreme hydro-climatic events in the western part of the Black Sea, In: Proc. of the 2nd Biannual and Black Sea SCENE EC Project Joint Conference "Climate change in the Black Sea: Hypothesis, Observations, Trends, scenarios and mitigation strategy for the ecosystem (BS-HOT'2008)", 6-9 October, Sofia, Bulgaria, pp. 149-158.

Keremedchiev, C., E. Trifonova, N. Andreeva, P. Eftimova, N. Valchev, 2008. Assessment of the impact of the coastal structures on the shore and the underwater bottom slope. In: Proc. of 9th Int. Conf. on Marine Sciences and technologies - Black Sea'2008, 23-25th October, Varna, Bulgaria, pp. 225-231, ISBN 978-954-90156-5-2.

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Valchev, N., E., Trifonova, D., Kirilova, N., Andreeva, P., Eftimova, 2009. Review of storm situations in the Western part of the Black Sea using various historical datasets. Proc. of Int. Conf. "Lithodynamics of bottom contact zone of the ocean", Moscow, 14-17th September 2009, pp. 70-71, ISBN 978-5-89118-469-5, (poster, In Russian).

Keremedchev, S., E., Trifonova, N., Valchev, P., Eftimova, N., Andreeva, 2009. Classification of the Bulgarian Black Sea coast on morphological features of bottom slope and degree of wave impact. Proc. of Int. Conf. "Lithodynamics of bottom contact zone of the ocean", Moscow, 14-17th September 2009, pp. 98-101, ISBN 978-5-89118-469-5, (in-depth abstract, In Russian).

Saprykina, Y., S. Kuznetsov, Zh. Cherneva, N. Andreeva, 2009. Spatiotemporal variability of surge waves in the coastal zone of the sea, Proc. of Int. Conf. "Lithodynamics of bottom contact zone of the ocean", Moscow, 14-17th September 2009, pp. 36-38, ISBN 978-5-89118-469-5, (in-depth abstract, In Russian).

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Slabakova, V., N. Andreeva, P. Eftimova, R. Nedkov, 2009. Evaluation of QuikSCAT wind vector performance with respect to field measurements for the Bulgarian part of the Black Sea", Proc. of 4th Int. Conf. "Recent Advances in Space Technologies – RAST'2009", Istanbul, Turkey, pp. 323-327, ISBN 978-1-4244-3626-2.

Valchev, N., E. Trifonova, N. Andreeva, P. Eftimova, 2009. Climatic Change in the Storm Occurrence and Intensity Trends, Proc. of the "International Multidisciplinary Scientific Geo-Conference – SGEM'2009", vol. 2, pp. 305-312. Albena, Bulgaria, ISBN 954918181-2.

Trifonova, E., N. Valchev, N. Andreeva, P. Eftimova, 2010. Evaluation of wave conditions and morphological response linkage for establishment of a set of storm impact thresholds, European Geosciences Union (EGU), General Assembly, 02 – 07 May, Vienna, Austria (poster).

Trifonova, E., N. Valchev, N. Andreeva, P. Eftimova, 2010. Reconstruction of severe storms in the Western Black Sea and assessment of their impact on the coast. Proc. of 10th Int. Conf. on Marine Sciences and technologies - Black Sea'2010, 7th -9th October, pp. 254-260. ISSN 1314-0957.

Valchev, N., E. Trifonova, N. Andreeva, P. Eftimova, 2010. Climatic aspects of the variability of extreme storm occurrence and intensity in the western Black Sea, European Geosciences Union (EGU), General Assembly, 02 – 07 May, Vienna, Austria (poster).

Valchev, N., E. Trifonova, N. Andreeva, P. Eftimova. 2010. Long-term variability of extreme storm occurrence and intensity in the western Black Sea. Storm Surges Congress, Hamburg, Germany. 13–17 September 2010, pp. 191-191 (poster).

Valchev, N., G. Davidan, E. Trifonova, N. Andreeva, P. Eftimova, 2010. Wave model downscaling for coastal applications, European Geosciences Union (EGU), General Assembly, 02 – 07 May, Vienna, Austria (poster).

Eftimova P., E. Trifonova, N. Valchev, N. Andreeva, 2011. Beach erosion caused by storms. Morphological model set up and calibration, 3rd Black Sea Scientific Conference, 01 - 04 November, Odessa, Ukraine (poster).

Trifonova, E., Valchev, N., Andreeva, N., Eftimova, P., Kotsev, I., 2011. Measurements and analysis of storm induced short-term morphological changes in the western Black Sea. Journal of Coastal Research, (Proc. of the 11th International Coastal Symposium – ICS 2011, Szczecin, Poland), SI 64, vol. 1, pp. 149-154, ISSN 0749-0208;

Trifonova, E., Valchev, N., Andreeva, N., Eftimova, P., Kotsev, I., 2011. Measurements and analysis of storm induced short-term morphological changes in the western Black Sea, International Coastal Symposium – ICS 2011, Szczecin, Poland (poster)

Valchev, N., E. Trifonova, N. Andreeva, 2011. Storm types and their long-term variability in the western Black Sea for past and present climate conditions, 3rd Black Sea Scientific Conference, 01 - 04 November, Odessa, Ukraine (poster).

Valchev, N., N. Andreeva, P. Eftimova, E. Trifonova, I. Kotsev, P. Galiatsatou, 2011. GIS based hazard maps as a tool to support long-term reduction of disaster consequences, 3rd Black Sea Scientific Conference, 01 - 04 November, Odessa, Ukraine (oral presentation).

Eftimova, P., E. Trifonova, N. Valchev, N. Andreeva, 2012. Beach erosion caused by storms. Morphological model set up and calibration. Proceedings of the 11th Int. Conf. on Marine Sciences and technologies - Black Sea'2012, Varna, Bulgaria, pp. 69-73. ISSN 1314-0957.

Kotsev, I., E. Trifonova, M. Filipova, S.Vergiev, P. Eftimova, N. Andreeva, N. Valchev, 2012. Mapping and analysis of flood-prone sand strip habitats within Varna coastal area, Bulgaria, 50th ECSA Conference: Today's Science for tomorrow's management, 3-7 June 2012, Venice, Italy (poster);

Kotsev, I., E. Trifonova, N. Valchev, M. Filipova-Marinova, S. Vergiev, P. Eftimova, N. Andreeva, 2012. Mapping and analysis of flood-prone sand strip habitats at Panorama beach, Varna coastal area. European SCGIS Conference with International Participation "Best practices: Application of GIS technologies for conservation of natural and cultural heritage sites", 21 -23 May 2012, Sofia, Bulgaria (poster);

Kotsev, I., S. Keremedchiev, E. Trifonova, V. Todorova, L. Dimitrov, N. Andreeva, P. Eftimova, 2012. Mapping of the sublittoral substrates as a basis for the identification of NATURA 2000 habitat types 1110 and 1170 in the Bulgarian Black Sea, Proc. 1st European SCGIS Conference "Best practices: Application of GIS technologies for conservation of natural and cultural heritage sites", May 2012, Sofia, Bulgaria, p. 31-38, ISSN 1314-7749;

Trifonova, E., Valchev, N., Krestenitis, Y., Androulidakis, I., Kombiadou, K., Eftimova, P., Andreeva, N., Kotsev, I., Kirilova D., 2012. Estimation of storm flood under conditions of future climate for Varna region (western Black Sea), Proc. of 11th Int. Conf. on Marine Sciences and Technologies - Black Sea'2012, Varna, Bulgaria, pp. 85-91, ISSN 1314-0957.

Trifonova, E., I. Kotsev, N. Valchev, M. Filipova, S.Vergiev, N. Andreeva, P. Eftimova, 2012. Vulnerability of Flood Prone Sand Strip Habitats in Varna Bay in Present Climate Conditions, 50th ECSA Conference: Today's Science for tomorrow's management, 3-7 June 2012, Venice, Italy (poster);

Valchev, N., E. Trifonova, N. Andreeva, 2012. Sea waves energy potential in front of Varna and Burgas bays (Western Black Sea), Proc. of 11th Int. Conf. on Marine Sciences and Technologies - Black Sea'2012, Varna, Bulgaria, pp. 98-103; ISSN 1314-0957;

Saprykina, Y., S. Kuznetsov, N. Andreeva, M. Shtremel, 2013. Scenarios of non-linear wave transformation in coastal zone. Proc. of 7th Int. Conf. on Coastal Dynamics, 24th-28th June, Arcachon, France, pp. 1451-1460 (poster);

Cherneva, Z., C. Guedes Soares, N. Andreeva, 2014. Wind and wave climate over the Black Sea, Proc. of Martech 2014, 2nd International Conference on Maritime Technology and Engineering, Ed. C. Guedes Soares, T.A. Santos, vol. 1, pp. 1309-1315, 15-17 October, Lisbon, Portugal;

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Valchev, N., Andreeva, N., Prodanov, B., 2014. Study on wave exposure of Bulgarian Black Sea coast, Proc. 12th Int. Conference on Marine Science and Technology "Black Sea" 2014, Varna, pp. 175-182., ISSN 1314-0957;

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Valchev, N., N. Andreeva, P. Eftimova, B. Prodanov, I. Kotsev. 2016. Assessment of vulnerability to storm induced flood hazard along diverse coastline settings, 3rd European Conference on Flood Risk Management FLOODrisk 2016, 17-21 October 2016, Lyon, France, E3S Web of Conferences 7 10002, DOI: 10.1051/e3sconf/20160710002;

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Andreeva, N., N. Valchev, B. Prodanov, P. Eftimova, I. Kotsev, L. Dimitrov, 2016. Assessment of coastal receptors' vulnerability to flood hazard along Varna regional coast, Proc. of the 35th International Conference on Coastal Engineering, 17-20 November, Antalya, Turkey, DOI: https://doi.org/10.9753/icce.v35.management.8;

Eftimova, P., Valchev, N., Andreeva, N., Prodanov, B., Dimitrov, L. 2016. Calculation of maximum wave run-up at Varna regional coast (Western Black Sea) using empirical models, Proc. of the 35th Int. Conf. on Coastal Engineering, 17-20 November, Antalya, Turkey, DOI: https://doi.org/10.9753/icce.v35.management.17;

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Andreeva, N., P. Eftimova, N. Valchev, B. Prodanov, 2017. Coastal flooding impact evaluation using an INtegrated DisRuption Assessment (INDRA) model for Varna region, Western Black Sea, European Geosciences Union (EGU), General Assembly, 23 – 28 April, Vienna, Austria (poster); Geophysical Research Abstracts, Vol. 19, EGU2017-18671, EGU General Assembly 2017;

Eftimova, P., N. Valchev, N. Andreeva, 2017. Coastal flooding hazard assessment on potentially vulnerable coastal sectors at Varna regional coast, European Geosciences Union (EGU), General Assembly, 23 – 28 April, Vienna, Austria (poster); Geophysical Research Abstracts, Vol. 19, EGU2017-19114, EGU General Assembly 2017;

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