

Silvia Torresan

EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

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| Name | Silvia Torresan |
| Address | CMCC@Ca'Foscari Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici Università Ca' Foscari Venezia Via della Libertà, 12 - 30175 Venezia (VE), Italia |
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| E-mail | silvia.torresan@cmcc.it ; torresan@unive.it |
| Social media | https://www.researchgate.net/profile/Silvia_Torresan/ |
| Nationality | Italian |
| Date of birth | 9 December 1980 |



WORK EXPERIENCE

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| • Dates (from – to) | Since April 2008 (ongoing) |
| • Name and address of employer | Centro Euro-Mediterraneo sui Cambiamenti Climatici Università Ca' Foscari Venezia Edificio Porta dell'Innovazione - Piano 1 Via della Libertà, 12 - 30175 Venezia (VE), Italia |
| • Type of business or sector | Research fellow in climate change risk and vulnerability assessment associated with the development of: <ul style="list-style-type: none">– indicators and indexes for the assessment of climate change impacts, vulnerabilities and risks, taking into account multiple natural and human systems in an ecosystem perspective (e.g. coastal aquifers, surface waters, river basins, estuaries, marine and terrestrial biodiversity);– risk and vulnerability assessment methodologies and Multi-Criteria Decision Analysis (MCDA) for spatial identification and ranking of climate-related impacts in coastal zones and related ecosystems;– risk-based Decision Support Systems (DSSs) and frameworks for the integration of high resolution hazard scenarios with environmental and socio-economic vulnerabilities in order to identify hot-spot risk areas and drive the definition of effective adaptation measures;– multi-risk Assessment of cumulative and synergic impacts of climate change and natural hazards to support Adaptation Planning, Environmental Impact Assessment and Strategic Environmental Assessment;– risk-based adaptation services to transfer information about climate change impacts and risks to different stakeholders (e.g. policy-makers, decision-makers, citizens and business sectors etc.). |
| • Occupation or position held | Scientist (from 2014), Post Doc Researcher (2012-2013), Division Manager (2015-2016) Junior Research Associate and PhD Student (2008-2012) (maternity leave from 26 August 2008 to 26 January 2009). |

• Main activities and responsibilities

Actively involved in international and national projects, development of project proposals; coordinating multidisciplinary research tasks and teams; project management; scientific reporting and dissemination. From November 2011 to November 2014, she has been co-manager of the CMCC Division Impact on Soil and Coast (ISC). From December 2014 to December 2016 she has been program manager of the CMCC Division Risk Assessment and Adaptation Strategies (RAAS). Since December 2014 she is co-director of the Division Risk Assessment and Adaptation Strategies (RAAS).

List of relevant projects:

MaCoBioS H2020 (2020-2024) - Marine Coastal Ecosystems Biodiversity and Services in a Changing World.

SAVEMEDCOAST02 DG ECHO (2019-2022) - Sea Level Rise Scenarios along the Mediterranean Coasts (European Commission).

ADRIACLIM (Interreg V-A Italy-Croatia CBC Programme, 2020-2022) - Climate change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas

ETC-CCA - Expert/contributing author of the European Environment Agency's European Topic Centre on Climate Change impacts, vulnerability and adaptation (2019-2021) for "Task 1.4.2.1 Monitoring and evaluation of national adaptation strategies and plans" and "Task 1.4.2.3 Climate change adaptation and disaster risk reduction.

LODE - Loss Data Enhancement for DRR and CCA Management (DG-ECHO, 2019-2021).

TRITON - Development of management Tools and diRectives for immediate protection of biodiversity in coastal areas affected by sea erosion and establishment of appropriate environmental control systems (Interreg Italy-Greece, 2018-2020).

SAVEMEDCOAST – Sea level rise scenarios along the Mediterranean coasts, funded by the European Commission DG-ECHO in the context of the Prevention and Preparedness in Civil Protection and marine Pollution Action Plan, 2017-2018.

Cháke Ou – Cooperation project funded by the European Commission's Humanitarian Aid and Civil Protection Department (ECHO) in the context of the Disaster Preparedness Action Plan (DIPECHO) (2016-2017).

PROLINE-CE - Efficient Practices of Land Use Management Integrating Water Resources Protection and Non-structural Flood Mitigation Experiences (Central Europe; 2016-2019).

ORIENTGATE - A structured network for integration of climate knowledge into policy and territorial planning. Funded by South East Europe Transnational Cooperation Programme (2012-2014).

PEGASO - People for Ecosystem Based Governance in Assessing Sustainable Development of Ocean and Coast (FP7, 2010-2014).

CLIMDAT - national project funded by the Italian Institute for Environmental Protection and Research (ISPRA) (2010-2013).

CLIM-RUN (Climate Local Information in the Mediterranean region: Responding to User Needs, 7FP, 2011-2013).

KULTURisk - Knowledge-based approach to develop a cULTure of Risk prevention, (FP7; 2011-2013).

PERSEUS– Policy-oriented marine Environmental Research in the Southern European Seas (FP7; 2012-2015).

TRUST - tools for regional scale assessment of groundwater storage improvement in adaptation to climate change (Life+; 2009-2011).

SALT - sustainable management of the Esino river basin to prevent saline intrusion in the coastal aquifer in consideration of climate change (Life+; 2009-2011).

CANTICO - Climate and local anthropogenic drivers and impacts for the Tunisian Coastal Area, (ERANET; 2008-2010).

More info at:

<http://www.ecraunit.com/category/climate-change-risk-assessment-and-management-2/>

<http://www.cmcc.it/it/divisions/raas>

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| <p>Dates (from – to)</p> <p>• Name and address of employer</p> <p>Type of business or sector</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> | <p>from April 2007 to December 2007</p> <p>Consorzio Venezia Ricerche (CVR).</p> <p>Via della Libertà, 12 – 30175 Marghera - Venezia</p> <p>Climate Change Risk and Vulnerability Assessment</p> <p>Junior Researcher (Post Degree Contract)</p> <p>Definition and implementation of spatial vulnerability indicators/indexes in the North Adriatic Coast (Italy).</p> |
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- Dates (from – to) from March 2005 to July 2005
 - Name and address of employer Department of Environmental Sciences - University Ca' Foscari of Venice
Calle Larga, S. Marta 2137 - 30123, Venice
 - Type of business or sector Ecological Risk Assessment (ERA)
 - Occupation or position held Junior Researcher (Post-Bachelor Contract)
 - Main activities and responsibilities Collaboration to the standard guidelines and the manual "ECOLOGICAL RISK ASSESSMENT FOR CONTAMINATED SITES" based on the TRIAD approach (i.e. integration of chemical, ecological and ecotoxicological lines of evidence), for the Italian Environmental Protection Agency (APAT). Review of Environmental Quality Indicators and Indexes for transitional environments. Project funded by CORILA, 2000-2005.
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- Dates (from – to) from October 2004 to February 2005
 - Name and address of employer Interdepartmental Centre IDEAS - University Ca' Foscari of Venice
San Giobbe 873 – 30121, Venice
 - Type of business or sector Ecological Risk Assessment (ERA)
 - Occupation or position held Junior Researcher (Post Bachelor Contract)
 - Main activities and responsibilities Collaboration in the ERA-MANIA project: "Ecological Risk Assessment: development of a Methodology and Application to sites of National Interest: the case of ACNA di Cengio", in the activities related to the development of a methodology and Decision Support System (DSS) for the TRIAD-based site-specific ERA.

EDUCATION AND TRAINING

- Dates (from – to) from January 2008 to March 2012
 - Name and type of organization providing education and training Ca' Foscari University of Venice – Euro-Mediterranean Centre on Climate Change
Department of Economics, Cannaregio 873, 30121 Venice (Italy)
 - Principal subjects/occupational skills covered Climate change and natural resources management, Climate Change and International Policies, Modelling impacts of climate change and adaptation strategies, Analysis of Vulnerability, Risk and Impacts of Climate Change.
Thesis: "*Development of a Regional Risk Assessment methodology for climate change impact assessment and management in coastal zones*".
Supervisor: Prof. A. Marcomini.
 - Title of qualification awarded PhD in Science and Management of Climate Change – 23°
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- Dates (from – to) from September 2003 to April 2007
 - Name and type of organization providing education and training Ca' Foscari University of Venice
Calle Larga S. Marta, 2137 – 30123 Venice (Italy)
 - Principal subjects/occupational skills covered Ecological and Human Health Risk assessment, Environmental Impact Assessment, Life Cycle Assessment (LCA), Environmental modelling, Ecotoxicology, Climatology, GIS.
Thesis: "*Climate change vulnerability assessment of coastal areas at the regional scale*".
Supervisor: Prof. A. Marcomini.
 - Title of qualification awarded Master of Science in Environmental Sciences (110/110)
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- Dates (from – to) from September 1999 to July 2003
 - Name and type of organization providing education and training Ca' Foscari University of Venice
Calle Larga S. Marta, 2137 – 30123 Venice (Italy)
 - Principal subjects/occupational skills covered Environmental Chemistry, Biology, Ecology, Environmental Risk Assessment, Mathematics, Physics, Statistics.
Thesis: "*Definition of Soil Screening Values for Ecological Risk Assessment of contaminated sites*". Supervisor: Prof. A. Marcomini.
 - Title of qualification awarded Bachelor's Degree in Environmental Sciences (107/110)
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- Dates (from – to) from September 1994 to July 1999
 - Name and type of organization providing education and training Scientific High School (Liceo) "G.B. Benedetti"
Venezia (Italy)
 - Principal subjects/occupational skills covered Mathematics, Physics, Biology, Chemistry, Natural Sciences, Philosophy, History, Latin
 - Title of qualification awarded Diploma

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE **Italian**

OTHER LANGUAGES

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| | English |
| • Reading skills | Excellent |
| • Writing skills | Very Good |
| • Verbal skills | Very Good |

TECHNICAL SKILLS

Ability to use Windows XP and Mac OS X;
Microsoft Office Programs (Word, Excel, Power Point), Apple Programs (i-work, i-life), Internet Explorer, Safari, Mozilla Firefox;
Desktop mapping-Geographic Information System (ArcInfo, ArcGis),
Fortran, Risk Assessment models (RBCA - Risk-based Corrective Action), Life Cycle Assessment models (Sima_Pro), Vulnerability Assessment tools (Dynamic and Interactive Vulnerability Assessment, DIVA), DEcision support SYstem for COastal climate change impact assessment (DESYCO).

HOBBIES Jogging, Tennis, Reading.

DRIVING LICENCE(S) Category B

ADDITIONAL INFORMATION

Teaching and tutoring

Lecturer and instructor at the course "Risk Assessment and Decision Support Systems for Environmental Impacts related to Climate Change" held by Dr. Andrea Critto at the PhD program in Science and Management of Climate Change (University Ca' Foscari, Venice), a.y. 2011-2020.

18-19 December 2018. Lecturer and instructor at the training course on "Climate scenarios, mitigation and adaptation policies" within the SICAB project (Sino Italian capacity building for environmental protection) funded by the Italian Ministry of Environment to strengthen the international collaboration between Italy and China.

Lecturer at the I level Master entitled "Valutazione e gestione ambientale ed energetica delle imprese e del territorio" organized by Ca' Foscari Challenge School, a.y., 2018/2019.

Lecturer and instructor at the First and second CLIM-RUN Workshop on Climate Services held in Trieste, 15-19 October 2012 and 2-6 December 2013.

Lecturer within the course "Valutazione del rischio ambientale: dalla scala sito-specifica alla scala regionale dai siti contaminati ai bacini fluviali", held by Venice Research Consortium (CVR), 29-30 Giugno 2010.

Lecturer within the course "Assessment and management of environmental sustainability" held by Prof. A. Marcomini (University Ca' Foscari, Venice), a.y. 2008/2009 and 2009-2010.

Lecturer within the course "Methodologies for Environmental Risk Assessment and Management" held by Dr. A. Critto (University Ca' Foscari of Venice), a.y. 2006/2007 and 2007/2008.

Co-Tutor of 5 PhD Thesis, 8 Master Thesis and 5 Bachelor Thesis at the Department of Environmental Sciences, Ca' Foscari University of Venice, Italy.

ADDITIONAL INFORMATION

Conferences and Workshops.

13-15 March 2019. Invited speaker at the International Conference on Risk Perception, Behaviour, Management and Response, Cergy Pontoise (Paris, France).

26-28 November 2019. Member of the Scientific Committee of INQUIMUS 2019, Data, methods and tools for dynamic risk assessments: What are requirements, and how to tackle persisting challenges? Bonn, Germany.

03-05 December 2018. Local organizer and member of the Scientific Committee of the INQUIMUS 2018 Workshop on "Methods and tools to assess multi-hazard risk, vulnerability and resilience", Venice (Italy).

05-06 July 2018. Invited speaker at the 1th National Workshop On climate change and sea level rise in the Mediterranean Sea, Rome (Italy).

26-27 October 2017. Speaker at the Climate Science Symposium 2017, Bologna (Italy).

19-21 September 2017. Member of the extended scientific committee of the INQUIMUS 2017 Workshop: INQUIMUS into ACTION - How can scientific assessments inform decisions for problem-solving in practice" was the topic of fourth INQUIMUS workshop, Bolzano (Italy).

19-20 October 2016. Invited speaker at the Climate Science Symposium 2016, Cagliari (Italy).

22-23 September 2016. Member of the extended scientific committee of the INQUIMUS 2016 Workshop: Spatial and Temporal Dynamics of Risk and Vulnerability, Salzburg (Austria).

23 April 2016. Invited speaker at the Climate Change, risk and adaptation conference organized by Lions Club (Porto Ferraio, Isola d'Elba).

19-20/11/2015. Poster presentation and scientific secretariat at the Climate Science Symposium 2015, Roma (Italy).

19-20/11/2015. Attendance, poster presentation and scientific secretariat at the Climate Science Symposium 2015, Roma (Italy).

7-10 July 2015. Attendance and poster presentation at the conference: Our Common Future under Climate Change, Parigi (Francia).

15-16 January 2015: Oral presentation at the International Conference Fragile and resilient cities on water: Perspectives from Venice and Tokyo, Toshiba International Foundation.

29-30 September 2014: Attendance and oral presentation at the second annual conference on climate change and its implications on ecosystem and society organized by the Italian Society of Climate Sciences (SISC) , Venice (Italy).

10-12th March 2014: Attendance and oral presentation at the CIRCLE 2 Adaptation Frontiers Conference, Lisboa (Portugal).

10-11th February 2014: Invited speaker at the ECLISE/CLIMRUN Synthesis Workshop "Enabling Climate Information Services for Europe", Bruxelles (Belgium).

28 May 2013: Attendance and oral presentation at the Workshop with local stakeholders for the European FP7 project CLIM-RUN, Trieste (Italy).

23- 24 September 2013: Attendance and oral presentation at the first annual conference on climate change and its implications on ecosystem and society organized by the Italian Society of Climate Sciences (SISC) , Lecce (Italy).

15-16 November 2012, Attendance and poster presentation at EGU Leonardo Conference 2012, Hydrology and Society Connections between Hydrology and: Population dynamics, Policy making and Power Generation, Torino (Italy).

29 June 2012: Attendance and oral presentation at the panel Workshop "Climate change, Integrated Coastal Zone Management and DSS: the importance of stakeholders involvement" for the EU FP7 project PEGASO, Venice (Italy).

11 September 2011: Attendance and oral presentation at the Workshop with local stakeholders for the European FP7 project CLIM-RUN, Venice (Italy).

8-9 June 2011: Invited speaker at the Expert meeting on Methods and tools for assessing coastal vulnerability to climate change at the European scale EEA, Copenhagen (Denmark).

7-8 October 2010: Attendance at the International Workshop on Resilience – Harnessing Science for Better Disaster Management, Venice (Italy).

29 September – 1 October 2010: Invited speaker at the conference Deltas in times of Climate Changes, Rotterdam (The Netherlands).

13 May 2010: Attendance at the Workshop "Climate changes and groundwater in the upper veneto and friuli plains", LIFE+ TRUST project, Treviso (Italy).

23 October 2009: Invited speaker at the round table of the REGIOCLIMA project, Venice (Italy).

25-28 Novembre 2008: Attendance and oral presentation at the 9th international conference LITTORAL 2008 "A Changing Coast: Challenge For The Environmental Policies", Venice (Italy).

3 March 2008: Organization and oral presentation at the workshop "Decision Support Systems within the CMCC projects", Ca' Foscari University, Venice (Italy).

13-17 November 2007. Attendance and oral presentation at the Eighth International Conference on the Mediterranean Coastal Environment (MEDCOAST), Alexandria (Egypt).

6-9 November 2007. Attendance and poster presentation at the 11st Italian National Conference ASITA, Torino (Italy).

ANNEX I

List of publications

Peer Reviewed Journals:

1. Furlan, E., Dall Pozza, P., Michetti, M., **Torresan, S.**, Critto, A., Marcomini, 2021, A. Development of a Multi-Dimensional Coastal Vulnerability Index: assessing vulnerability to inundation scenarios in the Italian coast. *Science of The Total Environment*, in press. <https://doi.org/10.1016/j.scitotenv.2020.144650>
2. Gallina, V., **Torresan, S.**, Zabeo, A., Critto, A., Glade, T., Marcomini, A., 2020. A Multi-Risk Methodology for the Assessment of Climate Change Impacts in Coastal Zones. *Sustainability* 2020, 12(9), 3697; <https://doi.org/10.3390/su12093697>
3. **Torresan, S.**, Furlan, E., Critto, A., Michetti, M., Marcomini, A., 2020. Egypt's coastal vulnerability to sea level rise and storm surge: present and future conditions. *Integr. Environ. Assess. Manag.* Volume 16, Number 5—pp. 761–772; <https://doi.org/10.1002/ieam.4280>
4. Furlan, E., Slanzi, D., **Torresan, S.**, Critto, A., 2019. Multi-scenario analysis in the Adriatic Sea: a GIS-based Bayesian Network to support maritime spatial planning. *Science of The Total Environment* 134972. <https://doi.org/10.1016/j.scitotenv.2019.134972>
5. Pham, H.V., Sperotto, A., **Torresan, S.**, Acuña, V., Jorda-Capdevila, D., Rianna, G., Marcomini, A., Critto, A., 2019. Coupling scenarios of climate and land-use change with assessments of potential ecosystem services at the river basin scale. *Ecosystem Services* 40, 101045. <https://doi.org/10.1016/j.ecoser.2019.101045>
6. Furlan E., **Torresan S.**, Critto E., Lovato T., Solidoro C., Lazzari P., Marcomini A. Cumulative Impact Index for the Adriatic Sea: accounting for interactions among climate and anthropogenic pressures, 2019. *Science of The Total Environment* Volume 670, 20, Pages 379-397. <https://doi.org/10.1016/j.scitotenv.2019.03.021>
7. Sperotto A., Molina J.-L., **Torresan, S.**, Critto A., Pulido Velazques M., Marcomini A., 2019. Water quality sustainability evaluation under uncertainty: a multi-scenario analysis based on Bayesian Networks. *Sustainability*, 11(17), 4764;
8. Sperotto A., Molina J.-L., **Torresan, S.**, Critto A., Pulido Velazques M., Marcomini A., 2019. A Bayesian Networks approach for the assessment of climate change impacts on nutrients loadings. *Environmental Science and Policy*, vol.100, pp. 21-36 (ISSN 1462-9011);
9. Gallina, V., **Torresan, S.**, Zabeo, A., Rizzi, J., Carniel, S., Sclavo, M., Pizzol, L., Marcomini, A., Critto, A., 2019. Assessment of climate change impacts in the North Adriatic coastal area. Part II: Consequences for coastal erosion impacts at the regional scale. *Water*: 11(6), 1300; <https://doi.org/10.3390/w11061300>.
10. **Torresan S.**, Gallina V., Gualdi S., Bellafiore D., Umgieser G., Carniel S., Sclavo M., Benetazzo A., Giubilato E., Critto A. Assessment of climate change impacts in the North Adriatic coastal area. Part I: A multi-model chain for the definition of climate change hazard scenarios. *Water*: 11(6), 1157; <https://doi.org/10.3390/w11061157>.
11. Vuong P., **Torresan S.**, Critto A., Marcomini A., 2019. Alteration of freshwater ecosystem services under global change – A review focusing on the Po River basin (Italy) and the Red River basin (Vietnam), *Science of The Total Environment*, 652, 1347-1365 DOI: <https://doi.org/10.1016/j.scitotenv.2018.10.303>.
12. Terzi, S., **Torresan, S.**, Schneiderbauer, S., Critto, A., Zebisch, M., Marcomini, A., 2019. Multi-risk assessment in mountain regions: A review of modelling approaches for climate change adaptation. *Journal of Environmental Management* 232, Pages 759-771. <https://doi.org/10.1016/j.jenvman.2018.11.100>.
13. Huading S., Critto A., **Torresan S.**, Qingxian G., 2018. The temporal and spatial distribution characteristics of air pollution index and meteorological elements in Beijing, Tianjin and Shijiazhuang, China. *Integrated Environmental Assessment and Management*, DOI: 10.1002/ieam.4067.
14. DOI: 10.1002/ieam.4067.
15. Mysiak J., **Torresan S.**, Bosello F., Mistry M., Amadio M., Marzi S., Furlan E., Sperotto A., 2018. Climate risk index for Italy. *Phil. Trans. R. Soc. A*, 376 (2121), 20170305.
16. Pesce M., Critto A., **Torresan S.**, Giubilato E., Santini M., Zirino A., Ouyang W., Marcomini A., 2018. Modelling climate change impacts on nutrients and primary production in coastal waters, *Science of The Total Environment*, Volumes 628–629, Pages 919-937, ISSN 0048-9697, DOI: 10.1016/j.scitotenv.2018.02.131.

17. Furlan E., **Torresan S.**, Critto A., Marcomini A., 2018. Spatially explicit risk approach for multi-hazard assessment and management in marine environment: The case study of the Adriatic Sea. *Science of the Total Environment*, Volume 618, Pages 1008-1023, ISSN 0048-9697, DOI: 10.1016/j.scitotenv.2017.09.076.
18. E. Furlan, **Torresan S.**, P. Ronco, A. Critto, M. Breil, A. Kontogianni, M. Garmendia, M. Pascual, D. Sauzade, M. Skourtos, A. Marcomini, 2018. Tools and methods to support adaptive policy making in marine areas: Review and implementation of the Adaptive Marine Policy Toolbox. *Ocean and Coastal Management*. 151, 25-35.
19. Ronco P., Zennaro F., **Torresan S.**, Critto A., Santini M., Trabucco A., Zollo A.L., Galluccio G., Marcomini A., 2017. Drought risk for the irrigation compartment of Puglia Region (Italy) under climate change. *Advances in Water Resources* 110, 562-578.
20. Rizzi J., **Torresan S.**, Zabeo A., Critto A., Tosoni A., Tomasin A., Marcomini A. 2017. Assessing storm surge risk under future sea-level rise scenarios: a case study in the North Adriatic coast. *Journal of Coastal Conservation*, Volume 21, Issue 4, pp 453–471.
21. Sperotto A., Molina J.-L., **Torresan S.**, Critto A., Marcomini A., 2017. Reviewing Bayesian Networks potentials for climate change impacts assessment and management: A multi-risk perspective. *Journal of Environmental Management*, 202, 320–331.
22. Sperotto A., **Torresan S.**, Gallina V., Coppola E., Critto A., Marcomini A., 2016. A multi-disciplinary approach to evaluate pluvial floods risk under changing climate: the case study of the municipality of Venice (Italy). *Science of the Total Environment Journal*. 562: 1031–1043.
23. Giannini V., Bellucci A., **Torresan S.** 2016. Sharing skills and needs between providers and users of climate information to create climate services: lessons from the Northern Adriatic case study. *Earth Perspectives*, 3:1, 2-12, DOI 10.1186/s40322-016-0033-z.
24. Gallina V., **Torresan S.**, Critto A., Sperotto A., Glade T., Marcomini A., 2016. A review of multi-risk methodologies for natural hazards: Consequences and challenges for a climate change impact assessment. *JOURNAL OF ENVIRONMENTAL MANAGEMENT*, 168:123-132. DOI:10.1016/j.jenvman.2015.11.011.
25. **Torresan S.**, Critto A., Rizzi J. Zabeo A. Furlan E. Marcomini A., 2016. DESYCO: A decision support system for the regional risk assessment of climate change impacts in coastal zones in *OCEAN & COASTAL MANAGEMENT*, vol. 120, pp. 49-63 (ISSN 0964-5691).
26. Rizzi J., Gallina V., **Torresan S.**, Critto A., Marcomini A.. 2016. A Regional Risk Assessment addressing the impacts of climate change in the coastal area of the Gulf of Gabes. *Sustainability Science. Volume: 11 Issue: 3 Pages: 455-476.*
27. Iyalomhe F., Rizzi J., Pasini S., **Torresan S.**, Critto A., Marcomini A.. 2016. Regional risk assessment for climate change impacts on coastal aquifers. *Science of the Total Environment*, 537: 100–114.
28. Rizzi J., **Torresan S.**, Critto A., Zabeo A., Brigolin D., Carniel S., Pastres R., Marcomini A., 2016. Climate change impacts on marine water quality: The case study of the Northern Adriatic sea. *Marine Pollution Bulletin*. Volume: 102 Issue: 2 Pages: 271-282.
29. Ronco, P., Bullo, M., **Torresan, S.**, Critto, A., Olschewski, R., Zappa, M., and Marcomini, 2015. A.: KULTURisk regional risk assessment methodology for water-related natural hazards – Part 2: Application to the Zurich case study, *Hydrol. Earth Syst. Sci.*, 19, 1561-1576, doi:10.5194/hess-19-1561-2015.
30. Ronco, P., Gallina, V., **Torresan, S.**, Zabeo, A., Semenzin, E., Critto, A., and Marcomini, A., 2014: The KULTURisk Regional Risk Assessment methodology for water-related natural hazards – Part 1: Physical–environmental assessment, *Hydrol. Earth Syst. Sci.*, 18, 5399-5414, doi:10.5194/hess-18-5399-2014.
31. Santoro F., Tonino M., **Torresan S.**, Critto A. and Marcomini A., 2013. Involve to improve: a participatory approach for a Decision Support System for coastal climate change impact assessment. The North Adriatic case. *Ocean & Coastal Management* 78:101-111.
32. Baruffi F., Cisotto A., Cimolino A., Ferri M., Monego M., Norbiato D., Cappelletto M., Bisaglia M., Pretner A., Galli A., Scarinci A., Marsala V., Panelli C., Gualdi S., Bucchignani E., **Torresan S.**, Pasini S., Critto A., Marcomini A., 2012. Climate change impact assessment in Veneto and Friuli plain groundwater. Part I: an integrate modeling approach for hazard scenario construction. *Sci Total Environ*, 440: 154–166.
33. Pasini S., **Torresan S.**, Rizzi J., Zabeo A., Critto A., Marcomini A., 2012. Climate change impact assessment in Veneto and Friuli Plain groundwater. Part II: A spatially resolved regional risk assessment, *Sci Total Environ*, 440: 219-235.
34. **Torresan S.**, Critto A., Rizzi J., Marcomini A., 2012. Assessment of coastal vulnerability to climate change hazards at the regional scale: the case study of the North Adriatic sea. *Natural Hazards and Earth System Sciences* 12: 2347–2368.
35. **Torresan S.**, Critto A., Dalla Valle M., Harvey N., Marcomini, 2008. Assessing coastal vulnerability to climate change: comparing segmentation at global and regional scales. *Sustainability Science*, 3: 45-65.

36. Critto A., **Torresan S.**, Semenzin E., Giove S., Mesman M., Schouten AJ., Rutgers M., Marcomini A., 2007. Development of a site-specific Ecological Risk Assessment for contaminated sites: Part I. A multi-criteria based system for the selection of ecotoxicological tests and ecological observations. *Sci Total Environ.* 379, 16-33.

National Journals:

Carniel S., Sclavo M., Bergamasco A., Marcomini A. and **Torresan S.**, 2011. Towards assessing the Adriatic sea coastal vulnerability to regional climate change scenarios: preliminary results. *Marine Research at CNR*, 3: 1219-1224.

Books/Book chapters.

Lead author of the report: EEA, 2020, Monitoring and evaluation of national adaptation policies throughout the policy cycle, 2020, EEA Report No 6/2020, European Environment Agency (<https://www.eea.europa.eu/publications/national-adaptation-policies>).

Ronco P., Bullo M., Gallina V., **Torresan S.**, Critto A., Zabeo A., Semenzin E., Olschewski R., Marcomini, A. Assessing flood risk in Zurich, Switzerland: the KR-RRA approach. In Tiepolo, M. (2016) Ed.. Planning to cope with tropical and subtropical climate change. Berlin: De Gruyter Open. Retrieved 12 Sep. 2016, from <http://www.degruyter.com/view/product/473481>

Iyalomhe F., Rizzi J., **Torresan S.**, Gallina V., Critto A., Marcomini A., 2012. Inventory of GIS-Based Decision Support Systems Addressing Climate Change Impacts on Coastal Waters and Related Inland Watersheds. In Yosuke Y, 2012. *Climate Change / Book 2*. Intech. Chapter X. ISBN 980-953-307-489-9.

Agostini P., **Torresan S.**, Micheletti C., Critto A., 2009. Review of Decision Support Systems devoted to the management of inland and coastal waters in the European Union. In: Marcomini A., Suter G.W. II, Critto A. (Eds). Decision Support Systems for Risk Based Management of Contaminated Sites. New York, *Springer Verlag*, pp 311- 329.