

ARPAE
Agenzia regionale per la prevenzione, l'ambiente e l'energia
dell'Emilia - Romagna

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Atti amministrativi

Determinazione dirigenziale n. DET-2016-923 del 29/11/2016

Oggetto Servizio Idro-Meteo-Clima. Presa d'atto della costituzione del comitato scientifico internazionale “International Advisory Board” per il progetto Life 15 CCA/IT/000035 RainBO e conferimento di incarichi di prestazione d’opera intellettuale di natura occasionale.

Proposta n. PDTD-2016-931 del 25/11/2016

Struttura adottante Servizio Idro-Meteo-Clima

Dirigente adottante Cacciamani Carlo

Struttura proponente Area Agrometeorologia Territorio E Clima

Dirigente proponente Dott. Botarelli Lucio

Responsabile del procedimento Botarelli Lucio

Questo giorno 29 (ventinove) novembre 2016 presso la sede di Viale Silvani, 6 in Bologna, il Direttore del Servizio Idro-Meteo-Clima, Dott. Cacciamani Carlo, ai sensi del Regolamento Arpaе sul Decentramento amministrativo, approvato con D.D.G. n. 75 del 13/07/2016 e dell’art. 4, comma 2 del D.Lgs. 30 marzo 2001, n. 165 determina quanto segue.

Oggetto: Servizio Idro-Meteo-Clima. Presa d'atto della costituzione del comitato scientifico internazionale “International Advisory Board” per il progetto Life 15 CCA/IT/000035 RainBO e conferimento di incarichi di prestazione d’opera intellettuale di natura occasionale.

RICHIAMATA:

- la DDG n.79 del 21/07/2016 nella quale, oltre a prendere atto della partecipazione di Arpae al Progetto “LIFE 15 CCA/IT/000035 RainBO” approvato dalla Commissione Europea, si individua questo Servizio quale struttura incaricata alla realizzazione delle attività;

PREMESSO:

- che l’azione C5 del progetto RainBo Life “Replicability and transferability - Establishment and Management of the RainBO Advisory Board ” prevede la costituzione di un Comitato consultivo internazionale (AB);
- che l’AB ha lo scopo di supportare i partner di progetto soprattutto per quanto riguarda gli aspetti di trasferibilità e replicabilità dei metodi e dei risultati, e quindi di promuovere il carattere transnazionale del progetto, mettendo in evidenza gli impatti socio-economici positivi;
- che pertanto l’interazione tra i partner di progetto e membri dell’AB fornirà input per l’analisi, la valutazione e la progettazione di soluzioni sostenibili ed efficaci per ridurre i rischi di alluvioni in contesti urbani in tutta Europa.
- che, come stabilito nella proposta del progetto RainBo Life approvata dalla Commissione Europea, l’AB deve essere composto da almeno 5 membri;
- che Arpae - Servizio IdroMeteoClima (Arpae-Simc) è il partner responsabile per l’azione C5 e che pertanto ha il compito di organizzare la costituzione dell’AB e coordinare , con il supporto di Lepida Spa, capofila del progetto Life RainBO, lo svolgimento delle sue attività dal 01/11/2016 fino alla fine del progetto (01/07/2019);
- che, per la costituzione e lo svolgimento delle attività in carico all’AB, il progetto Life RainBO prevede un apposito finanziamento che include, altre ad un compenso per ciascun membro, anche i costi di viaggio e alloggio per la partecipazione a due incontri internazionali da organizzare a dicembre 2016 e nel primo semestre 2019;
- che non sono disponibili elenchi regionali di esperti, né elenchi di esperti approvati da Arpae, né graduatorie concorsuali vigenti per il tipo di professionalità richiesta per l’espletamento delle attività da assegnare ai membri dell’AB;

DATO ATTO:

- che i partner di progetto si sono riuniti il giorno 22/09/2016 presso la sede del Comune di Bologna, Piazza Liber Paradisus, ed hanno designato i 5 membri dell'AB, come da verbale, di cui copia è conservata agli atti di questo Servizio;
- che l'AB sarà pertanto composto da:
 - Alberto Viglione - Institute of Hydraulic Engineering and Water Resources Management - Vienna University of Technology, Austria,
 - Cristina Garzillo - di ICLEI - International Council for Local Environmental Initiatives, Germany,
 - Sergio Castellari - European Environmental Agency, Denmark,
 - Maria Jonten - Swedish Civil Contingencies Agency, Sweden,
 - Alessandro Battaglia - Department of Physics and Astronomy, University of Leicester, United Kingdom;
- che il dott. Sergio Castellari, a seguito di assenso da parte della Agenzia Europea per l'Ambiente, conservato agli atti, svolgerà le attività previste quale membro dell'AB, durante il proprio orario di lavoro e resteranno a carico del progetto solo i costi relativi a spese di viaggio e alloggio;
- che la Dott.ssa Maria Jonten a seguito di assenso da parte della Agenzia di Protezione Civile Svedese, conservato agli atti, svolgerà le attività previste quale membro dell'AB, durante il proprio orario di lavoro e resteranno a carico del progetto solo i costi relativi a spese di viaggio e alloggio;

VISTE:

- la DGR n. 607 del 04/05/2009 avente ad oggetto "Disciplina del rapporto di lavoro autonomo in Regione Emilia-Romagna", con cui è stato approvata la "Direttiva in materia di rapporti di lavoro autonomo nella Regione Emilia-Romagna";
- DDG n. 71 del 05/12/2012 avente ad oggetto "Direzione Amministrativa. Approvazione della nuova disciplina in materia di conferimento di incarichi di prestazione d'opera intellettuale, con contratti di lavoro autonomo presso Arpaee Emilia-Romagna";

RICHIAMATE inoltre:

- la D.D.G. n. 101 del 30/12/2015 avente ad oggetto "Approvazione del Bilancio pluriennale di previsione per il triennio 2016-2018, del Piano Investimenti 2016-2018, del Bilancio Economico Preventivo per l'esercizio 2016 e del Budget generale e della Programmazione di Cassa 2016;

CONSIDERATO inoltre:

- che, date le caratteristiche peculiari richieste ai membri dell'AB, ovvero alta conoscenza in materie specifiche di progetto e appartenenza ad enti ed istituzioni internazionali, risulta accertata l'impossibilità oggettiva di utilizzare le risorse umane disponibili all'interno di Arpa per lo svolgimento delle prestazioni oggetto dell'incarico in esame;
- che il tempo richiesto ai singoli membri per lo svolgimento delle attività previste nel progetto Life RainBO non eccederà i 30 giorni complessivi;
- che, nel rispetto della vigente disciplina in materia di conferimento di incarichi di prestazione d'opera intellettuale, risulta pertanto possibile conferire ai componenti l'AB del progetto Life RainBO degli incarichi di consulenza di natura occasionale ;

RITENUTO pertanto:

- ai sensi dell'art. 11 comma 4 della suddetta "Disciplina in materia di conferimento di incarichi di prestazione d'opera intellettuale, con contratti di lavoro autonomo presso Arpa Emilia-Romagna", approvata con DDG n. 71/2012, di conferire, mediante affidamento diretto, un incarico di prestazione d'opera intellettuale di natura occasionale ai dottori
 - Alberto Viglione,
 - Cristina Garzillo,
 - Alessandro Battaglia,

che possiedono le necessarie qualità e professionalità, come da curricula allegati sub A) al presente atto, in merito alla partecipazione al comitato consultivo internazionale sopra indicato ;

VALUTATO:

- che, ai sensi dell'art. 53 comma 14 del d. lgs. 165/2001 (come modificato dall'art. 1 comma 42 della L. 190/2012), nei confronti dei dottori
 - Alberto Viglione,
 - Cristina Garzillo,
 - Alessandro Battaglia,

non sussistono situazioni, anche potenziali, di conflitto di interessi, come risulta dalla documentazione conservata agli atti;

DATO ATTO:

- che la suddetta attestazione tiene conto anche delle disposizioni di cui al DPR n. 62/2013 (Codice di comportamento dei dipendenti pubblici), per quanto compatibili con il contratto di lavoro autonomo di cui al presente atto;

RITENUTO ALTRESI':

- di approvare lo schema di contratto, allegato sub B) al presente atto quale parte integrante e sostanziale, destinato a formalizzare la totalità degli accordi tra Arpae e i dottori:
 - Alberto Viglione,
 - Cristina Garzillo,
 - Alessandro Battaglia,
- di stabilire che il suddetto incarico decorrerà dal 01/12/2016 e terminerà il 01/07/2019, e comunque per un impegno totale di tempo uomo non superiore ai 30 giorni;
- di riconoscere ai dottori:
 - Alberto Viglione,
 - Cristina Garzillo,
 - Alessandro Battaglia,

per le prestazioni fornite, un compenso lordo di Euro 5.000,00 che non include le spese di viaggio e alloggio per la partecipazione a due incontri internazionali da organizzare, nell'ambito del progetto Life RainBO a dicembre 2016 e nel primo semestre 2019;

- di disporre la pubblicazione del presente provvedimento sul sito istituzionale dell'ente, in conformità a quanto previsto dall'art. 15 del d.lgs. 33/2013;

DATO ATTO:

- che il conferimento dell'incarico di prestazione d'opera intellettuale di natura professionale, di cui al presente provvedimento, si formalizza nel rispetto delle vigenti disposizioni in materia di contenimento della spesa pubblica;
- che, in conformità a quanto prescritto dall'art. 7 della citata "Disciplina in materia di conferimento di incarichi di prestazione d'opera intellettuale, con contratti di lavoro autonomo presso Arpa Emilia-Romagna" approvata con DDG n. 71/2012, come risulta da specifica scheda conservata agli atti del Nodo, sono stati acquisiti i preventivi pareri del Responsabile dell'Area Sviluppo Risorse Umane e Relazioni Sindacali e del Responsabile dell'Area Bilancio e Controllo Economico, rispettivamente per gli aspetti di natura tecnico/giuridica e di coerenza con la programmazione degli incarichi e con il budget;

SU PROPOSTA:

- del dott. Lucio Botarelli, Responsabile dell'Area Agrometeorologia territorio e clima, il quale ha espresso parere favorevole in merito alla regolarità amministrativa del presente atto;

DATO ATTO:

- che si è provveduto a nominare responsabile del procedimento il dott. Lucio Botarelli;
- che è stato acquisito il parere favorevole di regolarità contabile espresso ai sensi del Regolamento sul decentramento amministrativo approvato con D.D.G. 75/2016 dalla referente amministrativa rag. Daniela Ranieri;

DETERMINA

1. di dare atto della costituzione del comitato consultivo internazionale del progetto Life 15 CCA/IT/000035 “RainBO Life” composto dai dott.ri Alberto Viglione, Cristina Garzillo, Sergio Castellari, Maria Jonten e Alessandro Battaglia individuati dai partner del progetto;
2. di dare atto che il dott. Castellari Sergio, a seguito di assenso da parte della Agenzia Europea per l’Ambiente, svolgerà le attività previste quale membro dell’AB, durante il proprio orario di lavoro e resteranno a carico del progetto solo i costi relativi a spese di viaggio e alloggio;
3. di dare atto che la dott.ssa Maria Jonten, a seguito di assenso da parte della Agenzia Svedese per la Protezione Civile, svolgerà le attività previste quale membro dell’AB, durante il proprio orario di lavoro e resteranno a carico del progetto solo i costi relativi a spese di viaggio e alloggio;
4. di conferire, per quanto sopra esposto, un incarico di prestazione d’opera intellettuale di natura occasionale agli altri membri del comitato consultivo internazionale RainBO Life nei dottori:
 - Alberto Viglione,
 - Cristina Garzillo,
 - Alessandro Battaglia,che possiedono, come da curricula allegati da A) a E) al presente atto, la necessaria elevata professionalità e qualità per la partecipazione al comitato consultivo internazionale;
5. di approvare lo schema di contratto, allegato sub F) al presente atto quale parte integrante e sostanziale, destinato a formalizzare la totalità degli accordi tra Arpae e i dottori:
 - Alberto Viglione,

- Cristina Garzillo,
 - Alessandro Battaglia,
6. di dare atto che, per ciascun componente del comitato consultivo internazionale RainBO Life, il suddetto incarico decorrerà dal 01/12/2016 e terminerà il 01/07/2019 e prevede un impegno totale di tempo uomo non superiore ai 30 giorni;
 7. di riconoscere ai dottori:
 - Alberto Viglione,
 - Cristina Garzillo,
 - Alessandro Battaglia,per la prestazione fornita, un compenso lordo di Euro 5.000,00 che non include le spese di viaggio e alloggio per la partecipazione, in presenza, a due incontri internazionali da organizzare, nell'ambito del progetto Life RainBO, uno il 15 dicembre 2016 e l'altro nel primo semestre 2019;
 8. di dare atto che il costo complessivo relativo al presente provvedimento pari ad Euro 15.000,00, avente natura di “Incarichi di ricerca” è a carico dell'esercizio 2016 per Euro 7.500,00 e dell'esercizio 2019 per Euro 7.500,00 con riferimento al progetto “RainBo Life”;
 9. di disporre la pubblicazione del presente provvedimento sul sito istituzionale dell'ente, in conformità a quanto previsto dall'art. 15 del d.lgs. 33/2013;
 10. di dare atto che si è già proceduto, con determinazione n. 896 del 23 novembre 2016, all'imputazione dei costi relativi alle spese di viaggio e alloggio per i membri del comitato consultivo internazionale RainBo Life.

Allegati:

A, B, C, D, E) Curricula Vitae;

F) schema di contratto.

IL DIRETTORE DEL
SERVIZIO IDRO-METEO-CLIMA
Dott. Carlo Cacciamani

ALESSANDRO BATTAGLIA: CURRICULUM VITAE ET STUDIORUM

PERSONAL INFORMATION

Residence:

Telephone:

E-mail: ab474@le.ac.uk

Sex: male

Birthday

Nationality Italian

Education

- Ph.D. (Jan 2001) Physics, University of Ferrara, Italy. Thesis topic: Microwave scattering from hydrometeors and radiative transfer in clouds and precipitation, Supervisor: Prof. F. Prodi (grades: excellent).
- Master Course (March-Dec. 1996), Particle Physics, University of Padova.
- Laurea Degree (Feb. 1996) Physics, University of Padova, Italy. Topic of thesis "Hierarchy mass problem of quarks and leptons (110/110 cum Laude).

Employment

- *Reader* (from April 2013), Physics and Astronomy Department, University of Leicester, UK.
 - ``*Privat Dozent*'' equivalent to Visiting Professor (from May 2012), Meteorological Institute, University of Bonn, Faculty of Mathematics and Natural Science, Germany.
 - *NERC peer review college member* (from May 2011).
 - *Lecturer* (Sept. 2009-March 2013), Physics and Astronomy Department, University of Leicester, UK.
 - *Assistant Professor* (Sept. 2004-Aug.2009), Meteorological Institute, University Bonn, Germany.
 - *Contract Professor* of the Course Laboratory of Radiative Transfer, University of Ferrara and at a master course in Meteorology, University of Bologna (years 2003-2004);
 - *Contract Professor* at a master course in Meteorology, University of Turin (year 2004);
 - *Contract Professor* at a master course in Meteorological Risks for Aviation Navigation, University of Forli' (year 2004).
 - *Research Associate* (Jan. 2003-Aug. 2004), Department of Physics, University of Ferrara, Italy.
 - *Visiting PDRA* (Apr. 2001-Dec. 2001), Department of Atmospheric Sciences, CSU, USA.
 - *Research Associate* (Nov. 2000-Nov. 2002), Dep. of Aerospace Eng., University of Bologna, Italy.
 - *Visiting Fellow* (Sept. 1999-Apr. 2000), NASA GSFC, Greenbelt, Maryland, USA.
 - *Visiting Fellow* (Sept.-Oct. 1998), Helsinki Observatory, Helsinki, Finland.
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ORGANISATIONAL/MANAGERIAL SKILLS

Dr. Battaglia is currently supervising three PDRAs (Dr. F. Tridon, Dr. K. Mroz, Dr. L. D'Adderio at the University of Leicester) and he is external supervisor to two PhD students, one in France and one in Germany. He has been leading similar size research groups for the last 10 years.

Dr. Battaglia is project manager for all the projects where he is PI (see list below).

JOB-RELATED SKILLS

Dr. Battaglia has more than 15-year experience in microwave active and passive remote sensing and he is a first-class microwave radiative transfer expert. He is actively developing an innovative program of research involving international collaborations in Earth Observation science and space missions specifically targeted at the study of clouds and precipitation with active and passive remote sensing techniques. His studies are at the forefront of the research in the field of millimeter space-borne Doppler radars and polarimetric ground-based radiometers. His chief international positions are as a Science Team Member of the NASA PMM mission, algorithm contributor for the ESA/JAXA EarthCARE mission, and team member for international proposals of Precipitation Missions.

As a demonstration of his skills Dr. Battaglia is directly involved in many international activities.

Being *member of the NASA Precipitating Measuring Missions Science Team* he is involved in studies for the GPM (Global Precipitation Mission, launched early in 2014) and its ground validation activities. The mission, with its first dual-frequency radar system onboard, promises to produce a significant step forward in improving coverage and reducing uncertainties in global precipitation products. Dr. Battaglia has significantly contributed to the *ground validation program with the participation of the ADMIRARI radiometer* to the pre-CHUVA campaign at the Brazilian Launching Center of Alcântara in northeastern Brazil from 1 to 25 March 2010, the Light Precipitation Evaluation Experiment (LPVEx) in the Gulf of Finland in September and October, 2010, the Midlatitude Continental Convective Clouds Experiment (MC3E) in central Oklahoma during the April–June 2011 period and the GPM Cold-season Precipitation Experiment (GCPEX) in Ontario, Canada during the winter season (Jan 15- Feb 26) of 2011-2012.

Dr. Battaglia is now highly committed in strengthening his role in the frame of the GPM algorithm development, with specific focus at improving active and passive microwave precipitation retrievals (e.g. [1,5,8]). Dr. Battaglia could bridge towards the GPM community and provide the needed expertise. This is also of great relevance for EUMETSAT H-SAF Precipitation Measuring Mission validation activities. Dr. Battaglia has now been funded by NERC for ground cal-val activities of GMP mission over mid-latitudes.

Thanks to the NERC-PERICLES project related activities (2011-2014) Dr. Battaglia has now a strong *collaboration with the US DOE-Atmospheric Radiation Measurement (ARM) program* and he is working with the ARM radar scientists to developing algorithms for rain profiling and microphysical processes identification from multi-wavelength radar observations ([3,11,13]) and for ice/snow microphysical characterization ([2,10]).

Dr. Battaglia has been particularly active in *ESA-EarthCARE mission and in space-borne Doppler radar studies*. During the Doppler Air Motion Estimate ESA activity (PI for Bonn University) he has developed an end to end simulator for the EarthCARE 94 GHz Doppler radar and of the retrieval for the air motion. The radar simulator is applicable to space-borne Doppler scanning systems and is capable of accounting for multiple scattering, depolarization and complex antenna patterns ([12,18,20]). His code represents the backbone of the *forward radar simulator for the ESA-EarthCARE simulator and of the NASA-JPL Instrument Simulator Suite for Atmospheric Remote*

Sensing. The code was a key asset to predict before launch and characterize after launch multiple scattering in CloudSat/GPM observations and it is now used for notional studies for up-coming missions (e.g. ESA-EarthCARE, NASA-ACE, NASA-NIS). He has been leading ESA projects aimed at refining concepts for wide-swath scanning Doppler radars for 3D-wind mapping and he is now involved in the ESA-DORSY activity where he is developing ESA-Level 2 Doppler-radar based products for the EarthCARE mission (due to launch in 2018). He is a project on Radiation and Rainfall funded by the UK National Center for Earth Observation focused at preparation studies for the EarthCARE mission. He is International Collaborator in the Dynamical-Train Mission proposed in January 2016 to the NASA Earth Venture Mission and he is currently working at some concepts involving scanning millimetre Doppler radars for the upcoming EE10 (activities funded by ESA and by the UK-CEOI).

Besides having a strong vocation for space-borne radars Dr. Battaglia has been involved in many *ground-based field activities and several international field campaigns*. Together with his German colleagues he has contributed to establish the Environmental Research Station Schneefernerhaus at the Zugspitze as one of the few remote sensing European observatory for snow. He secured funding for an X-band polarimetric radar, now routinely operated at the Bonn Meteorological Institute (<http://www.meteo.uni-bonn.de/messdaten/radarbilder/>). He is now actively trying to secure funding for a new generation of radars with frequencies in the G-band (i.e. with frequencies between 100 and 300 GHz) [9].

COMPUTER SKILLS

Programming: Fortran, IDL, Matlab, LATEX

Operating Systems: Unix/Linux, Windows

CURRENT DUTIES

Dr. Battaglia is currently Reader at the Physics and Astronomy Department within the Earth Observation Science Group led by Dr. H. Boesch. He has teaching, tutoring and supervising responsibilities at the Bachelor, Master and Post Graduate level and he is pursuing an innovative research program. This is undertaken through international positions in major satellite missions, international collaborations and research grants awarded in the UK and also whilst at the University of Bonn. He is currently PI of six research projects. Dr. Battaglia is also Privat Dozent (an honorary position equivalent to Visiting professor) at the Meteorological Institute, University of Bonn.

PUBLICATIONS

Dr. Battaglia has published over 50 papers in peer-reviewed journals, with significant contributions to all of them: 33 are first-authored and 9 are second-authored. He is the leading author in a chapter of a research monograph about Measurement of Precipitation from space and co-editor in a book about microwave radiometry edited by C. Mätzler. He contributed to more than 100 poster/oral presentation at Conferences and Workshops as well.

Dr. Battaglia is a leader in radiative transfer modelling of microwave radiation within clouds and precipitation. Such studies are crucial for the interpretation of active and passive microwave remote sensing observations, which are essential for characterizing and monitoring the status of the Earth's atmosphere in a changing climate.

Dr. Battaglia is an expert in space-borne Doppler radar simulations and he is currently involved in preparatory studies for the EarthCARE mission ([6,7,10]) and for future scanning concepts ([4,12]). He has pioneered multiwavelength Doppler techniques for rain and snow characterization ([2,3]

,11,52,54]). He made a key contribution for the radar community when predicting the appearance of multiple scattering effects for the 94 GHz Cloudsat Radar [34,42], two years before launch and provided clear evidences of such an effect by using CloudSat data when they became available [28,32]. The radar community is now aware of the problem and has recognized the need of better quantifying these effects in the on-going and up-coming space missions ([1,17,26,28,30]) in order to avoid misleading interpretations of the radar signal. The dual precipitation radar in the Global precipitation Mission is also affected by the same problem ([1,5,8]). In 2010, after being invited by the Editor of the Journal of Quantitative Spectroscopy and Radiative Transfer, Dr. M. Mishchenko, he wrote a review paper on this topic ([20]).

Dr. Battaglia has significantly contributed to the development of numerical solution of the vector radiative transfer equation in three-dimensional dichroic media based on forward [18,41] and backward [33,35] Monte Carlo techniques and on two-stream approximation solution to simulate multiple scattering for active sensors ([30]).

Being PI of the ADMIRARI instrument Dr. Battaglia has pioneered ground-based polarimetry observations of precipitating clouds ([15,22,25,27]). He has also key contributions in snow in situ and remote sensing observations ([2,19,21,23]).

Full list of peer Reviewed Journal Papers

1. **A Battaglia**, K., S. Tanelli, F. Tridon, P.E. Kirstetter, *Multiple-scattering-induced “ghost echoes” in GPM-DPR observations of a tornadic supercell*, DOI: <http://dx.doi.org/10.1175/JAMC-D-15-0136>.
2. Kneifel, S., Kollias, P., **Battaglia, A.**, Leinonen, J., Maahn, M., Kalesse, H., Tridon, F., *First observations of triple-frequency radar Doppler spectra in snowfall: Interpretation and applications*, Geophys. Res. Lett., 2016, 43, doi: 10.1002/2015GL067618.
3. F Tridon, **A Battaglia**, *Dual frequency radar Doppler spectral retrieval of rain drop size distributions and entangled dynamics variables*, Journal of Geophysical Research: Atmospheres, 10.1002/2014JD023023
4. **Battaglia, A.**, and P Kollias, *Error Analysis of a Conceptual Cloud Doppler Stereo-radar with Polarization Diversity for Better Understanding Space Applications*, Journal of Atmospheric and Oceanic Technology, 2015, doi: <http://dx.doi.org/10.1175/JTECH-D-14-00015.1>
5. **Battaglia, A.**, S Tanelli, K Mroz, F Tridon, *Multiple scattering in observations of the GPM dual frequency precipitation radar: Evidence and impact on retrievals*, Journal of Geophysical Research: Atmospheres, 2015, 10.1002/2014JD022866.
6. **Battaglia, A.** and P. Kollias, *Impact of Receiver Saturation on Surface Doppler velocity measurements from the EarthCARE Cloud Profiling Radar*, 2014, IEEE Transactions on Geoscience and Remote Sensing, 53(3), doi 10.1109/TGRS.2014.233589.
7. **Battaglia, A.** and P. Kollias, *Using ice clouds for mitigating the EarthCARE Doppler radar mispointing*, 2014, IEEE Transactions on Geoscience and Remote Sensing, 53(4), doi: 10.1109/TGRS.2014.2353219.
8. **Battaglia, A.**, S.Tanelli, G. Heymsfield, L. Tian, *The Dual Wavelength Ratio knee: a signature of multiple scattering in airborne Ku-Ka observations*, 2014, J. Appl. Meteor. Climatol., 53, 1790–1808, doi: <http://dx.doi.org/10.1175/JAMC-D-13-0341.1>
9. **Battaglia, A.**, C. Westbrook, S. Kneifel, P. Kollias, U. Loehnert, J. Tyynela, and G. W. Petty, *G-band atmospheric radars: new frontiers in cloud physics*, Atm. Meas. Tech., 2014, 7(1), 321-375.
10. P. Kollias, S. Tanelli, **A. Battaglia** and A. Tatarevic, *Evaluation of EarthCARE Cloud Profiling Radar Doppler Velocity Measurements in Particle Sedimentation Regimes*, J. Atm. Ocean. Tech., 2014, 31(2), 366-386.
11. F. Tridon, **A. Battaglia**, Pavlos Kollias, 2013: *Disentangling Mie and Attenuation Effects in Rain Using a Ka-W Dual-Wavelength Doppler Spectral Ratio Technique*, Geoph. Res. Lett, 2013, 40(20), 5548-5552.
12. **Battaglia, A.**, S. Tanelli, P. Kollias, *Polarization diversity for millimeter space-borne Doppler radars: an answer for observing deep convection?*, 2013, J. Atmos. Oceanic Technol., 30(12), 2768-2787, doi: <http://dx.doi.org/10.1175/JTECH-D-13-00085.1>
13. Tridon, F., **A. Battaglia**, P. Kollias, E. Luke, C. R. Williams, 2013: *Signal Postprocessing and Reflectivity Calibration of the Atmospheric Radiation Measurement Program 915-MHz Wind Profilers*, J. Atmos. Oceanic Technol., 30(6), 1038–1054.

14. **Battaglia**, and J. Delanoe, *Snow characterization from CALIPSO and CloudSat measurements*, Journal of Geophysical Research, 2013, doi:10.1029/2012JD018092
15. Saavedra, P., **A. Battaglia**, and C. Simmer, *Partitioning of cloud and rain water content by ground-based observations with the radiometer ADMIRARI in synergy with a micro rain radar during EUCAARI*, J. Geophys. Res., 2012, 117, D05203, doi:10.1029/2011JD016579.
16. Pounder, N., L. R. J. Hogan, T. Varnai, **A. Battaglia** and R. F. Cahalan: *A variational method to retrieve the extinction profile in liquid clouds using multiple field-of-view lidar*, J. Appl. Meteorol. Climatology, 2012, 51, 350–365, doi: <http://dx.doi.org/10.1175/JAMC-D-10-05007.1>.
17. **Battaglia**, A., T. Augustynek, S. Tanelli, P. Kollas, *Multiple scattering identification in spaceborne W-band radar measurements of deep convective cores*, J. Geophys. Res., 2011, 116, D19201, 10.1029/2011JD016142.
18. **Battaglia**, A., S. Tanelli, *DOppler MULTiple Scattering simulator*, IEEE Trans.Geo.Rem.Sens. , 2011, 49 (1), 442–450, doi:10.1109/TGRS.2010.2052818.
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54. Tridon F. and **Battaglia, A.**, *Rain retrieval from dual-frequency radar Doppler spectra: validation and range of applicability in midlatitude precipitating systems*, submitted to *QJRMS*

RESEARCH GRANTS AND AWARDS

Dr. Battaglia has an excellent track record in securing research grants from many different sources. He is currently PI of *several research grants*.

1. Dr Battaglia is the PI of the NERC standard grant **Calibration and validation studies over the North Atlantic and UK for the Global Precipitation Mission**, a three year project focused on cal/val activities of the GPM rainfall products over UK with the MetOffice radar network. *Budget¹: 333.266 £ (266.613 £ recoverable from funder). Duration: from 1/6/2014 to 30/5/2017.*
2. Dr Battaglia is the PI of the project **NCEO Radiation and Rainfall** funded by the UK National Center for Earth Observation focused at preparation studies for the EarthCARE mission. *Budget: 125.352£ (fully recoverable from funder). Duration: from 1/10/2014 to 31/3/2016.*
3. Dr Battaglia is the Leicester PI of the ESA project **Doppler Wind radar demonstrator**, a two year project in partnership with the University of Reading and the National Research Council of Canada focused at delivering an airborne demonstrator for scanning W-band radars with polarization diversity. *Budget: 81.000Euros (fully recoverable from funder). Duration: from 1/5/2015 to 31/4/2017.*
4. Dr Battaglia is the Leicester PI of the ESA project **DORSY (Doppler Radar Synergistic Products)**, a three year project in partnership with McGill University and ECMWF focused at preparing the Level2 Doppler Radar products for the EarthCARE mission. *Budget: 75.000Euros (fully recoverable from funder). Duration: from 1/7/2015 to 30/6/2018.*
5. Dr Battaglia is consultant in the ESA project **Dual Polarisation 94 GHz Antenna for Spaceborne Doppler Radar**, a two year project led by High Performance Space Structure Systems GmbH focused at studying a dual-polarised antenna concept for a 94 GHz Doppler radar and at proving its feasibility by breadboarding the critical sub-assemblies. *Budget: 12.000Euros (fully recoverable from funder). Duration: from 1/5/2015 to 31/4/2017.*
6. Dr Battaglia is co-I in the project **WIVERN** (WIInd VElocity Radar Nephoscope) led by Prof. Illingworth funded by UK Center Earth Observation Instrumentation to support the study of a space-borne conically scanning millimiter radar for wind observations *Budget¹: 50.000 £ (40.000 £ recoverable from funder) (1/3/2016 to 28/2/2017).*

In the last two years he completed two other major activities.

Dr. Battaglia was the PI of the project **WISDR** (Capability of atmospheric parameter retrieval and modeling for WIde-Swath spaceborne Doppler Radars) funded by ESA.

The main driver of the study is a rigorous assessment of the potential of scanning Doppler radars in retrieving 3D winds inside precipitating systems ([4,12]). Dr. Tanelli (NASA-JPL) and Prof. Kollias (McGill University) were consultants in this activity. *Budget¹: 216.000 € (fully recoverable from funder). Duration: from 1/10/2011 to 30/10/2014.*

Dr. Battaglia was the PI for the project **PERICLES** (Profiling optimal Estimates for RaIn-Cloud Efficiency Studies) funded by UK NERC. This was a 32 month PDRA funded project focused at profiling precipitating cloud microphysics with the new cutting edge multi-frequency, matched-beam, Doppler ARM radar systems. The project began on the 1st October 2011. Signal post-

processing and reflectivity calibration of the ARM UHF wind profiler has been already completed ([7]) and new findings on spectral analysis are now published ([1,4]). *Budget*¹: 316.881 £ (253.505 £ recoverable from funder); *Duration*: from 1/10/2011 to 31/9/2014.

Dr. Battaglia is also:

- **international collaborator** in the ‘Advanced datasets to diagnose higher-order features embedded in expected GPM measurements and their impact on retrieval algorithms’ project part of the NASA ROSES Precipitation Science Research Program and led by Dr S. Tanelli, NASA-JPL. *No budget allocated, only per diem and travel money for visiting JPL*.
- **international collaborator** in the ‘Using Airborne Radar Measurements to Improve Physical Assumptions in DPR and GMI Algorithms’, project part of the NASA ROSES Precipitation Science Research Program and led by Dr G. Heymsfield, NASA-Goddard. *No budget allocated, only per diem and travel money for visiting JPL*.

During his *previous employment* at the University of Bonn he was PIs for eight projects and he has been awarded grants for a total of slightly more than one million euros:

1. **Project ADMIRARI** (Development of an Advanced Microwave Radiometer for Rain Identification) funded by the German Science Foundation. Other PI: Prof. C. Simmer. *Budget²*: 297.390 € (from 1/8/2008 to 31/7/2010).
2. **Project ADMIRARI II**, funded by the German Science Foundation, a 3-year extension of the ADMIRARI project. A PDRA (based in Bonn) and a PhD (based in Cologne) position have been funded to exploit the ADMIRARI measurements collected during different field campaigns as part of the ground validation Global Precipitation Mission program. Budget: about 200.000 € (fully recoverable from funder). Duration: from 1/10/2011 to 31/12/2013.
3. **Project SFB/TR TRANSREGIO** (Patterns in soil-vegetation-atmosphere systems: monitoring, modelling and data assimilation) funded by the German Science Foundation. Other PI: Prof. C. Simmer. *Budget¹*: 527.000 € (from 1/1/2007 to 31/1/2010).
4. **Project TOSCA** (Towards an Optimal-estimation-technique for Snow Characterization Algorithm) funded by the German Science Foundation. *Budget¹*: 115.427 € (from 1/6/2007 to 31/5/2010).
5. **Project REPAIR** (Retrieval and Estimation of Precipitation in the Arctic and Immediate Region) funded by the European Centre for Arctic Environmental Research. *Budget¹*: 8.700 € (from 1/3/2010 to 30/4/2011).
6. **Project DAME** (Doppler Air Measurement Estimate) funded by ESA. *Budget*: 70.000 € (from 1/11/2009 to 31/10/2011).
7. **COPS 2007 measurements field campaign in the Black Forest**: Dr. Battaglia was PI for the ADMIRARI and the MICCY radiometers. *Budget¹*: 4.000 € (from 1/6/2007 to 1/10/2007)
8. **DWD contract** for an intercomparison study between the CloudSat Profiling Radar and the MIRA radar (deployed at the Lindenberg site) reflectivities and derived cloud properties for coincident overpasses. *Budget¹*: 5.000 € (from 1/6/2007 to 1/10/2007).

Mostly remarkably, the first two projects led to the construction of ADMIRARI, a new-generation multi-frequency (10.6-21.0-37.5 GHz) polarized scanning ground-based instrument capable of estimating cloud and rain water liquid path and to the purchase and installation a polarimetric X-band Doppler radar, installed at the Meteorological Institute in Bonn since 2009.

¹All budgets refer to the component granted to and managed by Dr Battaglia.

² All budgets refer to the component granted to and managed by Dr Battaglia. In Germany all grants are fully recoverable from funder.

Other academic distinctions

- a. On the 25th January 2011, with the talk ``The cloud-aerosol interaction: relevance for climate change'' he completed the German *Professor Habilitation* at the University of Bonn, Faculty of Mathematics and Natural Sciences.
- b. On the 23rd May, 2012 during the Dies Academicus of the University of Bonn, Dr. Battaglia gave his inaugural lecture ``How much does it rain over the globe? Present and future''. Since then he is *Privat Dozent* at the University of Bonn, where he has teaching and supervision duties.
- c. Dr. Battaglia is *review editor* for the Frontiers in Earth Science, Environmental Science and Physics Journal and *associate editor* for the AMS Journal of Atmospheric and Oceanic Technology.
- d. Dr. Battaglia is *reviewer* for the Journal of Geophysical Research-Atmospheres, the Journal of Quantitative Spectroscopy and Radiative Transfer, the Journal of Atmospheric and Oceanic Technology, Atmospheric Research, Applied Optics, IEEE Geoscience and Remote Sensing Letters, Meteorology and Atmospheric Physics.
- e. He is *NERC peer review college member*. In August 2012 he was *grant reviewer and panel review member* for the selection of the NASA Precipitation Measurement Missions Science Team (reference number NNH12ZDA001N-PMM).
- f. April 2015: as part of the GPM GV team Dr. Battaglia has been awarded the *NASA Goddard Space Flight Center Robert H. Goddard Award (Team) for the category of Exceptional Achievement in Science in 2014* for creative development and use of validation data for GPM from surface-based sensors and four highly successful field campaigns.
- g. May 2015: as part of the GPM Post-Launch Team Dr. Battaglia has been awarded the *NASA Agency Group Achievement Award* with a citation reading “For exceeding all expectations for GPM operations, data processing, algorithm performance, science impact, and education and public outreach within one year after launch.”
- h. Programme Committee Member of ERAD 2016

Industrial and technology-driven collaborations

Recently Dr. Battaglia has established a collaboration with Rutherford Appleton Laboratory (group led by Dr. Peter Huggard) with the goal of *designing and building a ground-breaking fully coherent, high sensitivity, dual frequency (200 GHz), FMCW radar system with Doppler and polarimetric capabilities*. Besides representing a significant leap forward in the technological development at millimetre wavelengths, such an innovative system has the potential to derive crucial information on snow processes, on the vertical structure of boundary layer water clouds and of upper troposphere ice clouds and to the development of the next generation of space-borne and ground-based remote sensing instruments, with possible high impact on societal applications (e.g. fog characterization at airports) [9].

Dr. Battaglia is *actively collaborating with scientists at the Jet Propulsion Laboratory* (Dr. Tanelli and Dr. Im) and *at Thales-Alenia*, France (Eric Caubet and Bernard Deligny) to design the next generation of space-borne Doppler radars for tropospheric observations. Particularly innovative is his recent study of polarization diversity applications both at nadir and in scanning mode, performed in the frame of the WisDr project. These findings are believed to significantly contribute to future proposals to ESA and NASA space missions involving Doppler radars.

Since 2005 Dr. Battaglia has been continuously collaborating with *Radiometer Physics GmbH*, a company based in Meckenheim, Germany, with a long experience in high frequency engineering. The collaboration led to the development and the construction of a prototype cutting-edge radiometer, ADMIRARI (see <http://www2.meteo.uni-bonn.de/forschung/gruppen/admirari/admirari.html>). Dr. Battaglia is the PI of the instrument and has driven major hardware and software upgrades in the instrument design (e.g. introduction of rain shields, improved band pass filtering, implementation of the retrieval algorithm). The radiometer is

now included among the company products (http://www.radiometer-physics.de/rpg/html/Products_Radiometers_DP-Radiometers.html) and three units have been sold so far.

TEACHING

Dr Battaglia has a long and remarkable track record in teaching activities both in fundamental physics and in meteorology. He has an outstanding experience in teaching introductory courses of atmospheric remote sensing and advanced courses in radiative transfer and radar meteorology. During the last six years at the University of Leicester he has been teaching module of the core physics *Electromagnetic fields*, of the third year option *Earth from space*, of the first/second year option *Vector and matrices* and the postgraduate course *Radiative transfer for planetary atmospheres*.

During his previous employment (2000-2009)

- i. at the Meteorological Institute, University of Bonn (Germany), Dr. Battaglia has been teaching each year the courses of *Radar meteorology (with exercises)*, *Introduction to Remote Sensing*, *Seminar zur meteorologischen Arbeitsmethodik: Literaturkurs, Radiative Transfer (with exercises)*.
- ii. at the University of Ferrara (Italy), he taught at the bachelor level *Introduction to dynamic meteorology*, *Microphysics of clouds and precipitation*, *Introduction to remote sensing*, *Laboratory of Radiative Transfer*;
- iii. at the University of Bologna and Turin (Italy), he taught at the master level *Meteorological risks for aviation navigation*, *Dynamic meteorology and microphysics*, *Cloud microphysics*.
He has been co-instructor of the Course on Millimeter Wavelength Radars at the two last European Conference on radar Meteorology in Toulouse (2012) and Garmisch (2014).

In 2002 together with Prof. F. Prodi he published three extensive lecture notes: Meteorology-Part I: dynamic; Meteorology-Part II: microphysics; Radiation in the Atmosphere.

ACADEMIC DISTINCTIONS

Professor Habilitation at the University of Bonn, Faculty of Mathematics and Natural Sciences with a thesis on ‘Multiple scattering effects in radar systems: theory, modelling and observations’ (January 2011).

REFERENCES

Prof. Dr. Clemens Simmer, Department of Meteorology, Auf dem Hügel, 20, 53121 Bonn, Germany ; e-mail: csimmer@uni-bonn.de, phone: (++49/0) 228-73-5181/5190

Prof. Dr. Pavlos Kollias, Department of Atm. Sciences, Burnside Hall 830, Montreal, Canada, e-mail: pavlos.kollias@mcgill.ca, phone: (++001)514 398-1500

Prof. Dr. G. Stephens, Director of the Center for Climate Sciences, Jet Propulsion Laboratory, M/S 183-505 4800 Oak Grove Drive, Pasadena, CA 91109; e-mail: Graeme.Stephens@jpl.nasa.gov; Phone: +1 818.393.1176

PERSONLIG INFORMATION



Jontén Maria



✉ maria.jonten@msb.se

European Disaster Response Exercise (EDREX), project coordinator

ARBETSLIVSERFARENHET

2013–Nuvarande

Senior Executive Officer

MSB

Exercise Section, Emergency Management Development Department, Swedish Civil Contingencies Agency (MSB)

Main responsibilities include development of the crisis management, specifically exercises within the area of emergency response within the European Union, through leading and implementing projects within the related areas. Within the work of the Exercise Section, I also manage the overall processes for evaluations and subsequent developmental processes of the results. I have also experience in the planning and implementation of the training and exercises in "Emergency, Preparedness and Response".

Analyst in situations where the agency has worked with humanitarian crises response, i.e. Syria and Somalia.

Organised various preparatory meetings with the Director General of the agency and relevant counterparts with regards to international matters such as bilateral meetings with country delegations, the evacuation from Lebanon (2013) etc.

Duty Officer responsible for discovering, verifying and alerting all hazard approach (Situation coordination at MSB) the Crisis Management Response Mechanism. In case of crisis and conflict, commanding the operations section i.e. in the response to the Ebola crisis, the forest fire in Västmanland, Sweden, the tropical cyclone Haiyan, volcanic ash cloud etc. This position requires high level of flexibility and ability to adjust to the unexpected situations occurring with low frequency with high impact on society. It also requires good security communication skills such as e.g. encryption. The work also includes active participation in exercises.

Commanding the section in times of crisis also includes the responsibility of being the point of contact for ERCC (Cesis), producing the situation reports, and also coordination of communication internally as well as externally. The Duty Officer also facilitates the Host Nation Support.

2005–2013

Desk Officer/Policy Advisor

Government Offices in Sweden (Ministry for Foreign Affairs, Ministry of Justice)

Government Offices of Sweden, Ministry of Justice, Department for Democracy and Human Rights (Human Rights Expert), Ministry for Foreign Affairs, Department for Global Development,

Coordinating and developing the systematic work for human rights in Sweden through national action plans for Human Rights, Human Rights education programs for diplomats, staff within the Government, conducting reports to Human Rights mechanisms regarding Conventions ratified by Sweden, being part of different EU Human Rights initiatives and having a central role in Swedish presidency of EU and Council of Europe. Involved in planning and implementing and representing in High level meetings and Conferences.

Main responsibilities include coordination and communication within the area of poverty reduction, the Millennium Development Goals and the policy for global development. Coordination of national and global networks, meetings and conferences for the Minister for International Development in Sweden.

2003–2005

Liason Officer

United Nations Development Programme (UNDP)

UNDP Zambia, UNDP Nordic office In Zambia working with Democracy and Human Rights within the Dag Hammarskjöld Memorial. Main responsibilities coordination and communications with the Millennium Development Goals Campaign (Världens chans) in the Nordic countries. International relations and preparing visits from the UN to Sweden

2002–2003 Desk Officer

Sida (Swedish Development Cooperation Agency)

2000–2002 Desk Officer

The Göteborg Region Association of Local Authorities (GR)

International Unit, working in the area of International relations and education

UTBILDNING
1997–2002 Master in Political Science

University of Gothenburg, Göteborg (Sverige)

International Politics and International Relations

PERSONLIGA FÄRDIGHETER
Modersmål svenska
Andra språk

	FÖRSTÄELSE		TALA		SKRIFTLIG FÄRDIGHET
	Hörförståelse	Läsförståelse	Samtal / muntlig interaktion	Muntlig produktion	
engelska	C2	C2	C2	C2	C2
franska	A2	A2	A1	A1	A1
tyska	B2	B2	A2	A2	A1

Nivåer: A1 och A2: Användare på nybörjarnivå - B1 och B2: Självständig användare - C1 och C2: Avancerad användare
Gemensam europeisk referensram för språk

Kommunikationsfördigheter

Excellent communication skills gained through my experience from working in international and multicultural environments.

Organisatoriska fördigheter

Developed organizational skills in my profession at the Government Offices in Sweden (Ministry for Foreign Affairs and Ministry of Justice), other agencies and international organizations (UNDP). In the role as a Duty Officer you are in charge of setting up the emergency response organisation and lead and coordinate and communicate internal and external

Arbetsrelaterade fördigheter

2009 Sweden for UNCHR Fund raising Steering Group, <http://sverigeforunhcr.se/>

2007-2011 Advisor for Human Rights for minorities in the Middle East

2007-2010 Swedish Development Forum is a non-governmental organisation, NGO - See more at: <http://www.fuf.se/information/english/#sthash.elbVDwyK.dpuf>

1992-2003 United Nations association of Sweden, Chairman in UNA Göteborg (2002-2003)

Digital färdighet
SJÄLVBEDÖMNING

Informationsbehandling

Kommunikation

Innehållsproduktion

Säkerhet

Problemlösning

Avancerad användare	Självständig användare	Självständig användare	Baspresterande användare	Baspresterande användare
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Digitala färdigheter - Skala för självbedömning

PERSONAL INFORMATION

Cristina Garzillo Leemhuis Leopoldring 3, 79098 Freiburg cristina.garzillo@iclei.org www.iclei-europe.org

Sex F | Date of birth | Nationality Italian, German

WORK EXPERIENCE

Since 01/2009 Permanent contract as **Project Coordinator** (Sustainability Management and Urban Governance Team)

ICLEI – Local Governments for Sustainability, European Secretariat, Leopoldring 3 – 79098 Freiburg Germany

- Coordination of European Horizon 2020, FP7, EuropeAid projects and tenders on resilient cities and transitions, sustainable mobility, integrated management systems, tools and evaluation methods for local sustainability, environmental urban governance and spatial planning.
- Specifically in 2016: Support in 100 Resilient Cities Initiative and H2020 Smart Mature Resilience Project; Coordination of the H2020 Sumps Up Project on Sustainable Urban Mobility Plans; Support in the development of a Green City Action Plan in Yerevan (Armenia); Member of the European Topic Centre of the European Environment Agency (European Commission) – Coordination of the EEA Urban Adaptation Report to Climate Change 2016, and the IJME Group on Integrated Urban Monitoring in Europe.

Business or sector International association of local governments

20016/2017 **Validated URBACTIII External Assessment Panel (EAP) Member**

URBACT, 5 rue de Pleyel 93283 Saint Denis, Paris, France

- Member of the panel in charge of assessing all the eligible applications submitted in the framework of the Call for Proposal launched for the creation of URBACT Implementation Networks

Business or sector European Territorial Cooperation Programme

01/2009 – 12/2010 **Lecturer** in the Renewable Energy Master Course

University of Freiburg, Tennenbacher Str.4 - 79106 Freiburg Germany

Business or sector University

11/2005 – 12/2008 **Permanent contract as Project Officer** (Sustainability Management and Urban Governance Team)

ICLEI – Local Governments for Sustainability, European Secretariat, Leopoldring 3 – 79098 Freiburg Germany

- *Project experience in Environmental and Sustainable Management (LIFE, LIFE+), research projects for Urban Governance (FP6, FP7), specific topics (Biofuels and Bioversity projects), and Local Action 21 National Roundtables. Planning and carrying forward consultancy services to local governments in Europe.*

Business or sector International association of local governments

11/2004- 4/2006 Researcher and Consultant

Municipality of Bologna, Via Zamboni, 8 – 40126 Bologna (Italy) – Tel. 0039(0)51-203117,
Environment and Urban Green Areas Sector - Environmental Quality Unit (Head Dr Marco Farina up to December 2004. Director Dr Roberto Diolaiti from January 2005)

- *Working in a research team for Strategic Evaluation Assessment (SEA) of the Structure Plan of Bologna*
- *Dealing with National and International Projects on Sustainable Development*
- *Technical Co-ordinator of "ecoBudget Asia: Implementing ecoBudget in Asian Local Governments" (Asia-Urbs Programme).*

academic year 2004-2005 Professor ("Professore a contratto") for the course named "Evaluation of projects", Architecture

University of Parma, Via Università, 12 – 43100 Parma (Italy) – Tel. 0039(0)521-032111

11/2002 - 11/2004 Researcher and Consultant

Municipality of Bologna, Via Zamboni, 8 – 40126 Bologna (Italy) – Tel. 0039(0)51-203117
Urban Rehabilitation Sector Environmental Quality Unit (Head Dr Andrea Minghetti)

- *Working in a research team for Strategic Evaluation Assessment (SEA) of the Structure Plan of Bologna. Dealing with links between Local Agenda 21 and Health Plan.*
- *Project Co-ordinator of the Life ecoBGET Project.*

10/2000- 10/2002 Researcher and Consultant

Municipality of Bologna, Environment Unit (Head Dr Gabriele Bollini)

- *Part of a working group to develop: the Environmental Action Plan - Local Agenda 21 Process in Bologna and the up-date of the "CO2 reduction project" - Energy Plan of the city of Bologna. Research on sustainable mobility.*

10/2000- 10/2002 Researcher and Consultant

Municipality of Bologna, Via Zamboni, 8 – 40126 Bologna (Italy) – Tel. 0039(0)51-203117, Environment Unit (Head Eng Paolo Ferrecchi)

- *Co-ordination of the State of the Environment report of the City of Bologna and the Local Agenda 21 process*

Business or sector government

EDUCATION AND TRAINING

- 06/2004 - 10/2004 **Training Course on “Facilitating LA21 processes, training, moderation and workshop organisation”**
Dr Giuseppe De Sario, National expert on Facilitation, Bologna (Italy)
- 01/2003 - 12/2004 **Research grant on “Evaluation methods for sustainable transformation of urban environment”**
University of Parma (Italy), Via Università, 12 – 43100 Parma (Italy) – Tel. 0039(0)521-032111
▪ *Research on evaluation methods for architectural and environmental heritage*
- 2001 - 2003 **Scientific Researcher**
University of Naples (Italy)
▪ **Leonardo da Vinci Program** - European Pilot Project "Skills and competencies development in Local Agenda 21 process"
- 03/2000 - 05/2000 **Training Course on “Management of Local Agenda 21”**
ICLEI, Freiburg (Germany) & Avanzi srl (Italy)
- 11/1998 - 11/2001 **Ph.D. on “Evaluation methods for the integrated conservation of architectural, urban and environmental heritage”**
University "Federico II" of Naples (Italy)
▪ *Thesis title: "Sustainable Development: perspectives and needs for assessment at 10 years since Rio. Collection models, data analysis and evaluation methods for the concrete implementation of the Local Agenda 21 Process"*
- 06/1998 - 02/1999 **Post Degree Course on "Sustainable Urban Mobility and Protection of the Environment" funded by European Social Fund**
OIKOS, Bologna (Italy)
(*Fifth European Level*)
- 1992 - 1997 **First class honours degree in Architecture**
University “Federico II” of Naples (ITALY)
▪ Architecture

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	C1	C1	B1	B1	B1
French	A2	A2	A1	A1	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Communication skills
- Experienced at giving presentations to large audiences: lectures, conference presentations, workshops/seminars, trainings to policy-makers, practitioners, and students.
 - Able to handle multiple projects simultaneously with comprehensive skills in establishing productive working relationships among partners, governments, individuals.
 - Friendly, personable, and approachable individual while maintaining professional integrity.

Organisational / managerial skills Strong organisational, managerial and prioritisation skills.

- Coordination of European projects from inception to completion (e.g. FP7 PRIMUS involving 4 European partners)
- Collaborating and interfacing closely with Deputy Directors, currently as most senior coordinator of 2 interdisciplinary and connected teams of 12 people delivering integrated projects
- Leading, engaging and building confidence in staff
- Proven ability to stay within project budgets, schedules and objectives

Driving licence Driving licence, category B

ADDITIONAL INFORMATION
MAIN PUBLICATIONS

Chapters in Books

- Garzillo, C. (2002) "Processo di Agenda 21 Locale" in Luca Zevi (Scientific Director) "Il Manuale del Restauro Architettonico" II edition – Mancosu editore, Roma, pp. H54-H55.
- Cerreta, M. De Toro, P. Garzillo, C. " Integrated Evaluations for Urban Planning and Conservation of Cultural Heritage" Training Module G in " Local Agenda 21 and Work" Leonardo da Vinci Program Pilot Project, Contract n. I/01/B/F/PP-120592.
- Garzillo, C. (2004) "Le valutazioni integrate per l'edilizia rurale" in Alberto Mambriani e Paolo Zappavigna "Edilizia rurale e territorio. Analisi, metodi e progetti", Maccari Editore, Parma.
- Garzillo, C. and Fini, G. (2005) "Approcci e metodi per le valutazioni non monetarie nello sviluppo sostenibile: L'Environmental Budgeting, strumento operativo tecnico e politico" in Luigi Fusco Girard and Peter Nijkamp "Energia, bellezza, partecipazione: la sfida della sostenibilità. Valutazioni integrate tra conservazione e sviluppo", Franco Angeli.
- Garzillo, C. (2006) "Bologna: l'integrazione tra piani, processi e strumenti" in Luigi Fusco Girard and Nicholas You in "Città attrattori di speranza. Dalle buone pratiche alle buone politiche", Franco Angeli.
- Garzillo, C. Burzacchini, A. and Robrecht, H. (2008) "Environmental challenges in European urban areas: the added value of the integrated approach" in Luciano Morselli Ecomondo Proceedings, Maggioli Editore.
- Garzillo, C. and Rok, A. (forthcoming) "Bridging the gap between research and policy-making on local sustainability" in Martinuzzi, A. and Sedlacko, M. Knowledge Brokerage for Sustainable Development - Innovative Tools for Increasing Research Impact and Evidence-Based Policy Making", Greenleaf Publishing

BOOKS and Guidance Books

- Garzillo, C. and Kuhn, S. (2007) "The Aalborg Commitments Implementation Guide. A 5-step approach", ICLEI – European Secretariat.
- (2008) "Guidelines for the Integration of Environmental Balance with the Environmental Management System" Life-IDEMS Project, Tipografia Moderna, Ravenna.
- Contributing to the EEA Report (2009) "Ensuring Quality of Life in Europe's cities and Towns", Copenhagen.
- Contributing to the Climatecon (2011) "Developing a pragmatic approach to assess urban metabolism in Europe", Report to the EEA.
- Joas, M., Theobald, K., Mc Guinness D., Garzillo, C., Kuhn, S., (2013) "Informed Cities: Making Research work for Local Sustainability", Routledge, London.
- Sauer, T., Elsen, S. and Garzillo, C. (2016) "Cities in Transition: Social Innovation for Europe's Urban Sustainability", Routledge, London.

Papers

- Garzillo, C. "Local Agenda 21: A Process Formalisation", in Proceedings of the International Meeting "The Human Being and the City: Towards a Human and Sustainable Development". Naples, 6-8 September 2000.
- Garzillo, C. "Participation and Sustainability in a City Building Rules. The Case of Valsia and Brick in the City of Bologna" International Meeting "The Human Being and the City: Towards a Human and Sustainable Development". Naples, 6-8 September 2000 (in collaboration with Ferrecchi, P. and Fini, G.).
- Garzillo, C. "Different Approaches to the Management of Environmental Services in Europe" in collaboration with Fini, G. Ferrecchi, P. and Toffaletti, N. key paper of the "First International Conference On Ecology And The City" 15 September – 31 December, 2000.
- Garzillo, C. (2008) "European urban areas: Creative Policy-Making and the integrated approach" In Proceedings of the International Conference "Sustainable City and Creativity: Promoting Creative Urban Initiatives", Naples, 24-26 September 2008.
- Garzillo, C. (2002) (technical co-ordination) "The Second State of the Environment of the Municipality of Bologna" Tipografia Moderna, Bologna.
- Garzillo, C. (2013) "Poverty reduction and environmental management: Taking action in Asian Cities" http://dreams.ecobudget.org/fileadmin/dreams/files/test/logos/LF_DReAMS_final_Version_web.pdf
- EEA Report (forthcoming in July 2016) "Urban Adaptation to climate change in Europe 2016", Copenhagen.

Technical co-ordination of reports

Papers in Journals/Briefs

- Garzillo, C. (2001) "Una strategia per un pianeta a rischio: Agenda 21 Locale", in "Ananke Review", 31 - September.
- Ferrecchi, P. Fini, G. and Garzillo, C. (2002) "The management of environmental services in the City of Bologna", in "International Journal of Environment and Sustainable Development" Vol.1, N° 1, pp. 42-58.
- Garzillo, C and Garzillo, E (2008) "Ambiente: notizie da un pianeta malato. Un arcipelago di previsioni, ricette, accordi, progetti.", Ananke 53/2008.
- Garzillo, C. (2010) "Creative Connectivity between Research and Policy-Making to support Implementation of Urban Sustainability ", in "International Journal of Management and Decision-Making", Vol. 13, n. 1/2/2010.
- Garzillo, C, and Sadhukhan B. (2012) "The poverty-environment nexus: dynamic solutions in Asian cities" in BDC vol.12, 1/2012.
- Bhagavatula, L., Garzillo, C., Simpson, R., "Bridging the gap between theory and practice: an ICLEI perspective", in "Journal of Cleaner Production" Accepted manuscript (unedited version) available online: 30-JAN-2013
DOI information: 10.1016/j.jclepro.2012.11.024.
- Ludlow, D., Khan, Z., Loibl, W., Fons, J., Garzillo, C., Rix, J., Georgi, B. "Smart Cities Transforming Governance", in Journal on Progress in Planning (publication ongoing).

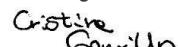
Additional information**Other teaching and research experiences**

Collaboration on many research activities with various Universities in Europe (e.g. University of West of England, Northumbria University, University of Freiburg). She is regularly giving presentations at Conferences, European Commission's seminars/workshops; Course responsibilities, seminar leader, mentoring post-graduate students on the themes of:

- Governance and participatory approaches for sustainable development,
 - Sustainability management, urban adaptation and resilience
 - European Sustainable Cities
 - EU Urban and Environmental Policy
- Evaluation Methods for Cultural and Environmental Assets (multicriteria methods, monetary and non-monetary methods, EIA and SEA),

She is regularly writing articles for projects briefs, newsletters and magazines on local sustainability, urban planning, and environmental issues.

Freiburg, 20 October 2016


Cristina Garzillo

Curriculum Vitae

Current as of September 2016

Alberto Viglione

Date of Birth: 3rd July 1977.

Nationality: Italian.

CONTACT INFORMATION

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EDUCATION

Ph.D. in Hydraulic Engineering, Politecnico di Torino, Italy

2007

(Advisors: Pierluigi Claps, Francesco Laio)

Master's Degree in Environmental Engineering, Politecnico di Torino, Italy

2002

(Advisors: Luca Ridolfi, Amilcare Porporato, Davide Poggi)

POSITIONS

Research Fellow, Vienna University of Technology, Austria

2007 - present

Visiting Scholar, University of Illinois at Urbana-Champaign, USA

2011

Research Assistant, Politecnico di Torino, Italy

2003 - 2007

RESEARCH INTERESTS

Research objectives:

- to understand the *spatio-temporal dynamics* of climatic, hydrologic and human processes in river basins;
- to decipher the implications of these dynamics on the *probabilities of extreme hydrological events* (in particular river floods) and their *evolution in space and time*.

Research strategy (combination of):

- investigation of long time series of observed/reconstructed climatic, hydrologic and human related variables;
- comparative analysis of climatic, hydrologic and human related variables across spatial gradients;
- conceptual modelling of the interconnection of climatic, hydrologic and human processes as a mean to understand what the data say.

HONORS AND AWARDS

Leonardo conference “Facets of Uncertainty”, Kos, Greece: Young scientist invited talk, 2013.

Fondazione AMGA, Genova, Italy: Premio di Dottorato per tesi sulle Risorse Idriche (Doctoral thesis award), 2009.

Politecnico di Torino, Italy: graduated Magna Cum Laude, Environmental Engineering, 2002.

CITATION IMPACT

	Web of Science	Scopus	Google scholar
N. of publications	48	57	156
Sum of the times cited	904	984	1881
h-index	18	19	24



BOOKS

- Blöschl, G., M. Sivapalan, T. Wagener, A. Viglione and H. Savenije, 2013. *Runoff Prediction in Ungauged Basins - Synthesis across Processes, Places and Scales*, Cambridge University Press, ISBN:9781107028180.

PAPERS IN ISI JOURNALS

2016

- Archfield, S.A., R.M. Hirsch, A. Viglione and G. Blöschl, 2016. Fragmented patterns of flood change across the United States, *Geophysical Research Letters*, doi:10.1002/2016GL070590.
- Salinas, J.L., A. Kiss, A. Viglione, R. Viertl and G. Blöschl, 2016. A fuzzy Bayesian approach to flood frequency estimation with imprecise historical information, *Water Resources Research*, doi:10.1002/2016WR019177.
- Kuil, L., G. Carr, A. Viglione, A. Prskawetz and G. Blöschl, 2016. Conceptualizing socio-hydrological drought processes: the case of the Maya collapse. *Water Resources Research*, **52**(8), 6222-6242, doi:10.1002/2015WR018298.
- Ceola, S. et al., 2016. Adaptation of Water Resources Systems to Changing Society and Environment - A statement by the International Association of Hydrological Sciences, *Hydrological Sciences Journal*, doi:10.1080/02626667.2016.1230674.
- Laaha, G., J. Parajka, A. Viglione, D. Koffler, K. Haslinger, W. Schöner, J. Zehetgruber and G. Blöschl, 2016. A three-pillar approach to assessing climate impacts on low flows, *Hydrology and Earth System Sciences*, **20**, 3967-3985, doi:10.5194/hess-20-3967-2016.
- Grames, J., A. Prskawetz, D. Grass, A. Viglione and G. Blöschl, 2016. Modelling the interaction between flooding events and economic growth. *Ecological Economics*, **129**, 193-209, doi:10.1016/j.ecolecon.2016.06.014.
- Viglione, A., B. Merz, N.V. Dung, J. Parajka, T. Nester and G. Blöschl, 2016. Attribution of regional flood changes based on scaling fingerprints, *Water Resources Research*, **52**(7), 5322-5340, doi:10.1002/2016WR019036.
- Šraj, M., A. Viglione, J. Parajka and G. Blöschl, 2016. The influence of non-stationarity of extreme hydrological events on flood frequency estimation. *Journal of Hydrology and Hydromechanics*, doi:10.1515/johh-2016-0032.
- McMillan, H. et al., 2016. Panta Rhei 2013-2015: Global perspectives on hydrology, society and change, *Hydrological Sciences Journal*, **61**(7), 1174-1191, doi:10.1080/02626667.2016.1159308.
- Parajka, J., A.P. Blaschke, G. Blöschl, K. Haslinger, G. Hepp, G. Laaha, W. Schöner, H. Trautvetter, A. Viglione, and M. Zessner, 2016. Uncertainty contributions to low flow projections in Austria, *Hydrology and Earth System Sciences*, **20**, 2085-2101, doi:10.5194/hess-20-2085-2016.
- Archfield, S.A., M. Clark, B. Arheimer, L.E. Hay, H. Mcmillan, J.E. Kiang, J. Seibert, K. Hakala, A. Bock, T. Wagener, W.H. Farmer, V. Andréassian, S. Attinger, A. Viglione, R. Knight, S. Markstrom and T. Over, 2016. Accelerating advances in continental domain hydrologic modeling, *Water Resources Research*, **51**(12), 10078-10091, doi:10.1002/2015WR017498.
- Laaha, G., K. Haslinger, D. Koffler, J. Parajka, W. Schöner, A. Viglione, J. Zehetgruber und G. Blöschl, 2016. Ein Drei-Standbeine-Ansatz zur Ermittlung zukünftiger Niederwasserabflüsse in Österreich, *Österreichische Wasser- und Abfallwirtschaft*, **68**(1), 54-57, doi:10.1007/s00506-015-0284-1.

2015

- Merz, B., S. Vorogushyn, U. Lall, A. Viglione and G. Blöschl, 2015. Charting unknown waters - on the role of surprise in flood risk assessment and management, *Water Resources Research*, **51**(8), 6399-6416, doi:10.1002/2015WR017464.
- Parajka, J., R. Merz, J.O. Skøien and A. Viglione, 2015. The role of station density for predicting daily runoff by top-kriging interpolation in Austria, *Journal of Hydrology and Hydromechanics*, **63**(3), 228-234, doi:10.1515/johh-2015-0024.
- Di Baldassarre, G., A. Viglione, G. Carr, L. Kuil, K. Yan, L. Brandimarte and G. Blöschl, 2015. Debates - Perspectives on socio-hydrology: Capturing feedbacks between physical and social processes, *Water Resources Research*, **51**(6), 4770-4781, doi:10.1002/2014WR016416.
- Ceola, S., B. Arheimer, E. Baratti, G. Blöschl, R. Capell, A. Castellarin, J. Freer, D. Han, M. Hrachowitz, Y. Hundecha, C. Hutton, G. Lindstrom, A. Montanari, R. Nijzink, J. Parajka, E.



- Toth, A. Viglione and T. Wagener, 2015. Virtual laboratories: new opportunities for collaborative water science, *Hydrology and Earth System Sciences*, **19**(4), 2101-2117, doi:10.5194/hess-19-2101-2015.
35. Blöschl, G., L. Gaál, J. Hall, A. Kiss, J. Komma, T. Nester, J. Parajka, R. Perdigão, L. Plavcová, M. Rogger, J.L. Salinas and A. Viglione, 2015. Increasing river floods: fiction or reality?, *WIREs Water*, **2**(4), 329-344, doi:10.1002/wat2.1079.
 34. Zoboli, O., A. Viglione, H. Rechberger and M. Zessner, 2015. Impact of reduced anthropogenic emissions and century flood on the phosphorus stock, concentrations and loads in the Upper Danube, *Science of The Total Environment*, **518-519**, 117-129, doi:10.1016/j.scitotenv.2015.02.087.
 33. Gaál, L., J. Szolgay, S. Kohnová, K. Hlavčová, J. Parajka, A. Viglione, R. Merz and G. Blöschl, 2015. Dependence between flood peaks and volumes - A case study on climate and hydrological controls, *Hydrological Sciences Journal*, **60**(6), 968-984, doi:10.1080/02626667.2014.951361.

2014

32. Salinas, J. L., A. Castellarin, A. Viglione, S. Kohnová, and T.R. Kjeldsen, 2014. Regional parent flood frequency distributions in Europe - Part 1: Is the GEV model suitable as a pan-European parent?, *Hydrology and Earth System Sciences*, **18**, 4381-4389, doi:10.5194/hess-18-4381-2014.
31. Merz, B. et al., 2014. Floods and climate: emerging perspectives for flood risk assessment and management, *Natural Hazards and Earth System Sciences*, **14**, 1921-1942, doi:10.5194/nhess-14-1921-2014.
30. Hall, J. et al., 2014. Understanding flood regime changes in Europe: a state-of-the-art assessment, *Hydrology and Earth System Sciences*, **18**, 2735-2772, doi:10.5194/hess-18-2735-2014.
29. Skøien, J.O., G. Blöschl, G. Laaha, E. Pebesma, J. Parajka and A. Viglione, 2014. rtop: an R package for interpolation of data with a variable spatial support, with an example from river networks, *Computers & Geosciences*, **67**, 180-190, doi:10.1016/j.cageo.2014.02.009.
28. Viglione, A., G. Di Baldassarre, L. Brandimarte, L. Kuil, G. Carr, J.L. Salinas, A. Scolobig and G. Blöschl, 2014. Insights from socio-hydrology modelling on dealing with flood risk – roles of collective memory, risk-taking attitude and trust, *Journal of Hydrology*, **518**(A), 71-82, doi:10.1016/j.jhydrol.2014.01.018.

2013

27. Rogger, M., A. Viglione, J. Derx and G. Blöschl, 2013. Quantifying effects of catchments storage thresholds on step changes in the flood frequency curve, *Water Resources Research*, **49**(10), 6946-6958, doi:10.1002/wrcr.20553.
26. Montanari, A. et al., 2013. “Panta Rhei – Everything Flows”: Change in hydrology and society– The IAHS Scientific Decade 2013-2022, *Hydrological Sciences Journal*, **58**(6), 1256-1275, doi:10.1080/02626667.2013.809088.
25. Di Baldassarre, G., A. Viglione, G. Carr, L. Kuil, J.L. Salinas and G. Blöschl, 2013. Socio-hydrology: conceptualising human-flood interactions, *Hydrology and Earth System Sciences*, **17**, 3295-3303, doi:10.5194/hess-17-3295-2013.
24. Viglione, A., J. Parajka, M. Rogger, J.L. Salinas, G. Laaha, M. Sivapalan and G. Blöschl, 2013. Comparative assessment of predictions in ungauged basins - Part 3: Runoff signatures in Austria, *Hydrology and Earth System Sciences*, **17**, 2263-2279, doi:10.5194/hess-17-2263-2013.
23. Salinas, J.L., G. Laaha, M. Rogger, J. Parajka, A. Viglione, M. Sivapalan and G. Blöschl, 2013. Comparative assessment of predictions in ungauged basins - Part 2: Flood and low flow studies, *Hydrology and Earth System Sciences*, **17**, 2637-2652, doi:10.5194/hess-17-2637-2013.
22. Parajka, J., A. Viglione, M. Rogger, J.L. Salinas, M. Sivapalan and G. Blöschl, 2013. Comparative assessment of predictions in ungauged basins - Part 1: Runoff hydrograph studies, *Hydrology and Earth System Sciences*, **17**, 1783-1795, doi:10.5194/hess-17-1783-2013.
21. Viglione, A., R. Merz, J. L. Salinas and G. Blöschl, 2013. Flood frequency hydrology: 3. A Bayesian analysis, *Water Resources Research*, **49**(2), 675-692, doi:10.1029/2011WR010782.

2012

20. Baratti, E., A. Montanari, A. Castellarin, J. L. Salinas, A. Viglione and A. Bezzi, 2012. Esti-



- mating the flood frequency distribution at seasonal and annual time scale, *Hydrology and Earth System Sciences*, **16**, 4651-4660, doi:10.5194/hess-16-4651-2012.
19. Yaeger, M., E. Coopersmith, S. Ye, L. Cheng, A. Viglione and M. Sivapalan, 2012. Exploring the physical controls of regional patterns of flow duration curves - Part 4: A synthesis of empirical analysis, process modeling and catchment classification, *Hydrology and Earth System Sciences*, **16**, 4483-4498, doi:10.5194/hess-16-4483-2012.
 18. Cheng, L., M. Yaeger, A. Viglione, E. Coopersmith, S. Ye and M. Sivapalan, 2012. Exploring the physical controls of regional patterns of flow duration curves - Part 1: Insights from statistical analyses, *Hydrology and Earth System Sciences*, **16**, 4435-4446, doi:10.5194/hess-16-4435-2012.
 17. Nester, T., J. Komma, A. Viglione and G. Blöschl, 2012. Flood forecast errors and ensemble spread - a case study, *Water Resources Research*, **48**(10), W10502, 19 pp., doi:10.1029/2011WR011649.
 16. Rogger, M., B. Kohl, H. Pirk, A. Viglione, J. Komma, R. Kirnbauer, R. Merz and G. Blöschl, 2012. Runoff models and flood frequency statistics for design flood estimation in Austria - Do they tell a consistent story? *Journal of Hydrology*, **456-457**, 30-43, doi:10.1016/j.jhydrol.2012.05.068.
 15. Rogger, M., H. Pirk, A. Viglione, J. Komma, B. Kohl, R. Kirnbauer, R. Merz and G. Blöschl, 2012. Step changes in the flood frequency curve: Process controls, *Water Resources Research*, **48**(5), W05544, 15 pp., doi:10.1029/2011WR011187.
 14. Gaál, L., J. Szolgay, S. Kohnová, J. Parajka, R. Merz, A. Viglione and G. Blöschl, 2012. Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology, *Water Resources Research*, **48**(4), W04511, 21 pp., doi:10.1029/2011WR011509.
 13. Viglione, A., A. Castellarin, M. Rogger, R. Merz and G. Blöschl, 2012. Extreme rainstorms: Comparing regional envelope curves to stochastically generated events, *Water Resources Research*, **48**(1), W01509, 16 pp., doi:10.1029/2011WR010515.

2007-2011

12. Zoccatelli, D., M. Borga, A. Viglione, G.B. Chirico and G. Blöschl, 2011. Spatial moments of catchment rainfall: rainfall spatial organisation, basin morphology, and flood response, *Hydrology and Earth System Sciences*, **15**, 3767-3783, doi:10.5194/hess-15-3767-2011.
11. Viglione, A., 2010. Confidence intervals for the coefficient of L-variation in hydrological applications, *Hydrology and Earth System Sciences*, **14**(11), 2229-2242, doi:10.5194/hess-14-2229-2010.
10. Viglione, A., G.B. Chirico, J. Komma, R. Woods, M. Borga and G. Blöschl, 2010. Quantifying space-time dynamics of flood event types, *Journal of Hydrology*, **394**(1-2), 213-229, doi:10.1016/j.jhydrol.2010.05.041.
9. Viglione, A., G.B. Chirico, R. Woods and G. Blöschl, 2010. Generalised synthesis of space-time variability in flood response: An analytical framework, *Journal of Hydrology*, **394**(1-2), 198-212, doi:10.1016/j.jhydrol.2010.05.047.
8. Gaume, E., L. Gaál, A. Viglione, J. Szolgay, S. Kohnová and G. Blöschl, 2010. Bayesian MCMC approach to regional flood frequency analyses involving extraordinary flood events on ungauged sites, *Journal of Hydrology*, **394**(1-2), 101-117, doi:10.1016/j.jhydrol.2010.01.008.
7. Viglione, A., M. Borga, P. Balabanis and G. Blöschl, 2010. Barriers to the exchange of hydrometeorological data in Europe: Results from a survey and implications for data policy, *Journal of Hydrology*, **394**(1-2), 63-77, doi:10.1016/j.jhydrol.2010.03.023.
6. Vezza, P., C. Comoglio, M. Rosso and A. Viglione, 2010. Low flows regionalization in North-Western Italy, *Water Resources Management*, **24**(14), 4049-4074, doi:10.1007/s11269-010-9647-3.
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52. Viglione, A., L. Brandimarte, G. Carr, G. Di Baldassarre, L. Kuil, T. Nester, J.L. Salinas, A. Scolobig, M. Sivapalan, G. Blöschl, 2013. Socio-hydrology: analysing water-people interactions - Early lessons learned, *Deciphering River Flood Change: Historical Floods*, Vienna, Austria 5-6 September 2013.
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50. Viglione, A., A. Montanari and G. Blöschl, 2013. Challenges of reservoir planning and management in a changing world (key note presentation), *Knowledge for the Future*, Joint Assembly IAHS - IAPSO - IASPEI, Gothenburg, Sweden 22-26 July 2013.
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42. Rogger, M., J. Parajka, A. Viglione, J.L. Salinas, M. Sivapalan and G. Blöschl, 2012. Comparative assessment of predictions in ungauged basins: Runoff hydrograph studies, *EGU Leonardo Conference Series on the Hydrological Cycle, Hydrology and Society*, Turin 14-16 November 2012.
41. Salinas, J.L., G. Laaha, M. Rogger, J. Parajka, A. Viglione, M. Sivapalan and G. Blöschl, 2012. Predictions in ungauged basins: comparative assessment of floods and low flows studies, *EGU Leonardo Conference Series on the Hydrological Cycle, Hydrology and Society*, Turin 14-16 November 2012.
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37. Salinas, J.L., A. Viglione, R. Merz, and G. Blöschl, 2012. Climate Change Impact on Floods in Austria. Focus on mechanisms, *Geophysical Research Abstracts*, Vol. 14, 13247, SRef-ID: EGU2012-13247.
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34. Alamirew, T., G. Mekonnen, and A. Viglione, 2012. Accelerated Capacity Development in Water Resources Education: the experiences of the Ethiopian Institute of Water Resources, *Geophysical Research Abstracts*, Vol. 14, 10744, SRef-ID: EGU2012-10744.

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32. Viglione, A., J.L. Salinas, R. Merz, W. Schöner, K. Haslinger and G. Blöschl, 2011. Mechanisms of climate change effects on floods, *EGU Leonardo Conference*, Series on the Hydrological Cycle, Floods in 3D: Processes, Patterns, Predictions, Bratislava 23-25 November 2011.
31. Viglione, A., A. Castellarin, M. Rogger, R. Merz and G. Blöschl, 2011. Extreme rainstorms: testing regional envelope curves against stochastically generated events, *EGU Leonardo Conference*, Series on the Hydrological Cycle, Floods in 3D: Processes, Patterns, Predictions, Bratislava 23-25 November 2011.
30. Rogger, M., B. Kohl, R. Merz, A. Viglione and G. Blöschl, 2011. A comparison of different approaches to design flood estimation in alpine catchments, *EGU Leonardo Conference*, Series on the Hydrological Cycle, Floods in 3D: Processes, Patterns, Predictions, Bratislava 23-25 November 2011.
29. Gaál, L., T. Bacigál, A. Viglione and J. Szolgay, 2011. Analysis of the dependence structure of simulated flood peak-volume data using Copulas, *EGU Leonardo Conference*, Series on the Hydrological Cycle, Floods in 3D: Processes, Patterns, Predictions, Bratislava 23-25 November 2011.
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24. Viglione, A., G.B. Chirico, J. Komma, R. Woods, M. Borga and G. Blöschl, 2010. Generalised synthesis of space-time variability in flood response: Dynamics of flood event types, *Geophysical Research Abstracts*, Vol. 12, 5707, SRef-ID: EGU2010-5707.
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22. Blöschl, G., A. Viglione, P. Balabanis and M. Borga, 2010. Barriers to the exchange of hydrometeorological data across Europe - results from a survey and implications for data policy, *Geophysical Research Abstracts*, Vol. 12, 9619, SRef-ID: EGU2010-9619.
21. Castellarin, A., A. Viglione, R. Merz and G. Blöschl, 2010. Testing rainfall envelope curves against stochastically generated rainstorms - a regional analysis, *Geophysical Research Abstracts*, Vol. 12, 13700, SRef-ID: EGU2010-13700.
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17. Viglione, A., G. Blöschl, M. Borga, J. Komma, R. Woods and G.B. Chirico, 2009. Metrics for quantifying space-time dynamics of flood event types, *Geophysical Research Abstracts*, Vol. 11, 4335, SRef-ID: EGU2009-4335.
16. Viglione, A., 2009. Software for Regional Frequency Analysis: the R package nsRFA, *Geophysical Research Abstracts*, Vol. 11, 4228, SRef-ID: EGU2009-4228.
15. Viglione, A., E. Gaume, L. Gaál, G. Blöschl and J. Szolgay, 2009. The index-flood method in a Bayesian perspective: sensitivity to regional heterogeneity, *Geophysical Research Abstracts*, Vol. 11, 4289, SRef-ID: EGU2009-4289.
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12. Heindl, H., A. Viglione and G. Blöschl, 2009. Dynamics of design floods and their consequences - climate change, *Geophysical Research Abstracts*, Vol. 11, 2524, SRef-ID: EGU2009-2524.
11. Rogger, M., R. Merz, A. Viglione, R. Kirnbauer and G. Blöschl, 2009. Reconciling statistical and deterministic flood estimation methods - a case study in Tyrol, *Geophysical Research Abstracts*, Vol. 11, 4576, SRef-ID: EGU2009-4576.
10. Gaume, E. and THE HYDRATE TEAM, 2009. An Intensive Post Event Campaign (IPEC) on the extreme flash flood which affected the Starzel river (Germany) on the 2nd of June 2008, *Geophysical Research Abstracts*, Vol. 11, 10190, SRef-ID: EGU2009-10190.



2004-2008

9. Viglione, A., 2008. Comparison of Regional Frequency Analysis approaches based on L-CV confidence intervals, *Workshop “New Statistical Tool in Hydrology”*, Capri, October 13-14, 2008.
8. Viglione, A. and G. Blöschl, 2008. Process controls on the mapping of rainfall to flood return periods, *Geophysical Research Abstracts*, Vol. 10, 03846, SRef-ID: 1607-7962/gra/EGU2008-A-03846.
7. Bain, V. and THE HYDRATE TEAM, 2008. European flash flood data, *Geophysical Research Abstracts*, Vol. 10, 07780, SRef-ID: 1607-7962/gra/EGU2008-A-07780.
6. Claps, P. and THE CUBIST TEAM, 2008. Development of an Information System of the Italian basins for the CUBIST project, *Geophysical Research Abstracts*, Vol. 10, 12048, SRef-ID: 1607-7962/gra/EGU2008-A-12048.
5. Viglione, A., P. Claps and F. Laio, 2006. Regional analysis of monthly runoff using regime curves (solicited), *Geophysical Research Abstracts*, Vol. 8, 10745, SRef-ID: 1607-7962/gra/EGU06-A-10745.
4. Claps, P., A. Viglione and F. Laio, 2006. Using catchment indices in regional frequency analysis (solicited), *Geophysical Research Abstracts*, Vol. 8, 08261, SRef-ID: 1607-7962/gra/EGU06-A-08261.
3. Viglione, A., F. Laio and P. Claps, 2005. A comparison of homogeneity tests for Regional Frequency Analysis (solicited), *Geophysical Research Abstracts*, Vol. 7, 04688, SRef-ID: 1607-7962/gra/EGU05-A-04688.
2. Viglione, A., M. Giannattasio, R. Rigon and P. Claps, 2004. Determinazione automatica di alcuni parametri dei bacini idrografici italiani, *Convegno sulla Conservazione e difesa del Suolo*, Turin 7-8 June, Rome 6 July.
1. Claps, P., P. Giordano, G. Laguardia and A. Viglione, 2004. Distribuzione spaziale della temperatura media e della radiazione solare in Italia, *Convegno sulla Conservazione e difesa del Suolo*, Turin 7-8 June, Rome 6 July.

PHD OPPONENT

- Anna Åkesson, 2015. Peakflow response of stream networks - implications of physical descriptions of streams and temporal change, *KTH Royal Institute of Technology*, Stockholm, Sweden, 29 September 2015.
- Muhammad Azmat, 2015. Water Resources Availability and Hydropower Production under Current and Future Climate Scenarios: The Case of Jhelum River Basin, Pakistan, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
- Andrea Guala, 2015. Mathematical modelling of cardiovascular fluid mechanics: physiology, pathology and clinical practice, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
- Muhammad Uzair Qamar, 2015. Parametric and non-parametric approaches for runoff and rainfall regionalization, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
- Andrea Cagninei, 2015. Hull and mooring design of a gyroscopic-based wave energy converter, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
- Anna Botto, 2015. Uncertainty Compliant Design of flood-defense infrastructures: a cost-benefit approach, *Scuola Interpolitecnica di Dottorato*, Turin, Italy.

TEACHING
EXPERIENCE

TO UPDATE

- Summer School - Runoff Predictions in Ungauged Basins (PUB), Vienna, Austria, 6-10 July 2015.
- M.S. thesis advisor of Walter Mangini, Politecnico di Torino, 2015.
- M.S. thesis advisor of Maria Anastasia Como, Politecnico di Torino, 2015.
- M.S. thesis advisor of Paola Almeida Soares, Bologna University, 2015.
- M.S. thesis advisor of Stefano Mallucci, Politecnico di Torino, 2015.
- M.S. thesis advisor of Elena Diamantini, Politecnico di Torino, 2015.
- UNESCO-IHE short course “Where there is little data: how to estimate design variables in poorly gauged basins”, Delft, The Netherlands, 2-13 November 2014.



- M.S. thesis advisor of Thomas Glatz, Vienna University of Technology, 2014.
- UNESCO-IHE short course “Where there is little data: how to estimate design variables in poorly gauged basins”, Delft, The Netherlands, 11-22 November 2013.
- “Dynamic modelling with R” for the Vienna Doctoral Program on Water Resources Systems, Vienna, 13 August 2013.
- M.S. thesis advisor of Ulrike Gabriele Kobler, Vienna University of Technology, 2013.
- FloodFreq training school “Advanced techniques for flood hazard assessment in a changing environment”, Limassol, Cyprus, 8 - 12 October 2012.
- Winter Research Workshop on “Comparative Hydrology” at the Ethiopian Institute of Water Resources, Addis Ababa, 26 Dec. 2011 - 13 Jan. 2012.
- Seminar “Storm water hydrology: flood peak estimation, statistical analysis and rainfall-runoff modelling” at the course “Integrated water resources management” for the International Post-Graduate Training Programme in Limnology IPGL2010, Vienna, 2010.
- “Model building and simulations” at graduate courses of Hydrology. Vienna University of Technology, 2009 - present.
- Seminar “Storm water hydrology” at the course “Management and governance of the integrated water service cycle” for Hydroaid - International School for Water and Development, Turin, 2008.
- “A stochastic rainfall model in R” at graduate courses of Hydrology. Vienna University of Technology, 2009 - 2010.
- Teaching assistance at graduate courses of Hydrology, Vienna University of Technology, 2009 - present.
- Seminar at the “Training course on management and control of water resources” for Hydroaid - International School for Water and Development, Turin, 2006.
- Teaching assistance at graduate courses of Water Resources Planning and Management, Politecnico di Torino, Turin, 2005 - 2006.
- Seminar on “Regional Frequency Analysis” at graduate courses of Hydrology, Politecnico di Torino, Turin, 2005.
- Teaching assistance at graduate courses of Hydrology, Politecnico di Torino, Vercelli, 2004 - 2005.
- B.S. thesis advisor or co-advisor for 3 students; M.S. thesis advisor or co-advisor for 3 students, Politecnico di Torino, Turin, 2004 - 2007.

PROJECTS		
9. HORA 3.0		2016 - 2018
Flood risk zoning in Austria 3.0 - hydrological analyses.		
8. System Risk		2016 - 2019
A large-scale systems approach to flood risk assessment and management.		
7. Switch-On		2013 - 2017
Sharing Water-related Information to Tackle Changes in the Hydrosphere - for Operational Needs.		
6. FloodChange		2012 - 2017
Deciphering River Flood Change.		
5. CILFAD		2011 - 2014
Climate Impact on Low Flows And Droughts.		
4. Mountain floods		2009 - 2012
Regional joint probability estimation of extreme events.		
3. HYDRATE		2007 - 2010
Hydrometeorological data resources and technologies for effective flash flood forecasting.		
2. CUBIST		2006 - 2007
Characterisation of Ungauged Basins by Integrated uSe of hydrological Techniques.		
1. PTA Piemonte		2003 - 2007
Piano di Tutela delle Acque della Regione Piemonte.		



ASSOCIATE EDITOR	<ul style="list-style-type: none"> - Water Resources Research, Wiley ISSN: 1944-7973 (Online) - WIREs Water, Wiley ISSN: 2049-1948 (Online) - Hydrological Sciences Journal, Taylor & Francis ISSN: 0262-6667 (Print), 2150-3435 (Online) 	2014 - present
REVIEWER	<ul style="list-style-type: none"> - Journal of Hydrologic Engineering, ASCE ISSN: 1084-0699 - Journal of Hydrology: Regional Studies, Elsevier ISSN: 2214-5818 - Journal of Hydrology and Hydromechanics, De Gruyter ISSN: 0042-790X - Hydrology Research, IWA ISSN: 0029-1277 - Quaternaire, AFEQ ISSN: 1965-0795 - Advances in Water Resources, Elsevier ISSN: 0309-1708 - Geophysical Research Letters, Wiley ISSN: 1944-8007 - Natural Hazards and Earth System Sciences, Copernicus ISSN: 1561-8633 (Print), 2195-9269 (Online) - Natural Hazards, Springer ISSN: 0921-030X (Print), 1573-0840 (Online) - International Journal of Climatology, Wiley ISSN: 1097-0088 - Hydrological Processes, Wiley ISSN: 1099-1085 - Physics and Chemistry of the Earth, Elsevier ISSN: 1474-7065 - Hydrological Sciences Journal, Taylor & Francis ISSN: 0262-6667 (Print), 2150-3435 (Online) - Journal of Hydrology, Elsevier ISSN: 0022-1694 - Hydrology and Earth System Sciences, Copernicus ISSN: 1027-5606 (Print), 1607-7938 (Online) - Water Resources Research, Wiley ISSN: 1944-7973 	since 2014
		since 2013
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COMMISSIONS AND ASSOCIATIONS 1. Secretary of the International Commission on Water Resources Systems, 2015-2019.

CONFERENCE ORGANISATION 2. International Conference on Integrated Water Resources Management 2016, 18-20 May 2016, Bochum, Germany.
1. Symposium “Deciphering River Flood Change”, Vienna, 3-5 September 2012.

CONVENER 19. Gires, A., et al. 2016. Precipitation variability: spatio-temporal scales and hydrometeorologic extremes, HS7.9/AS1.30/CL2.21/NH1.12/NP3.8 session at the *European Geoscience Union General*



Assembly, Vienna, Austria, 17-22 April 2016.

18. Pande, S., A. Viglione, G. Di Baldassarre and M. Sivapalan, 2016. Advances in socio-hydrology, HS5.4 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.
17. Mediero, L., H. Kreibich, A. Viglione and S. Vorogushyn, 2016. Flood dynamics: processes, controls, consequences, HS2.4.4 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.
16. Van Loon, A., J. Szolgay, L.M. Tallaksen, G. Laaha and A. Viglione, 2016. Hydrological extremes: from droughts to floods, HS2.1.1 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.
15. Cudennec, C., A. Eicker, P. Pilon, M. Stoffel, A. Viglione, Z. Xu and X. Zhang, 2015. Extreme Hydrological Events, JH1 Joint Inter-Association Symposia at the *26-th IUGG General Assembly*, Prague, June 22 - July 2, 2015.
14. Aksoy, H., M. Sivapalan, Y. Chen, A. Viglione, R. Moussa and E. Eris, 2015. Hydrological Predictions in Ungauged Basins, HW13 IAHS Symposia Workshop at the *26-th IUGG General Assembly*, Prague, June 22 - July 2, 2015.
13. Viglione, A., A. Castellarin, J. Szolgay, L.M. Tallaksen and G. Laaha, 2015. Hydrological extremes: from droughts to floods, HS2.4.1 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 12-17 April 2015.
12. Mediero, L., A. Viglione, S. Vorogushyn and H. Kreibich, 2015. Flood changes: understanding the drivers of hazard and risk, HS2.4.4 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 12-17 April 2015.
11. Carstea, A.A., A. Viglione, L. Gaál, S. Lennartz-Sassinek, M. Borga, A. Gires, A. Langousis, X. Wang, D. Koutsoyiannis, S. Grimaldi and V. Vuruputur, 2015. Hydroclimatic and hydrometeorologic stochastics: Extremes, scales, probabilities, HS7.7/NP3.8 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 12-17 April 2015.
10. Viglione, A., S. Grimaldi, A. Castellarin and D. Ganora, 2014. Analisi idraulico-idrologiche in bacini non strumentati, sessione al *XXXIV Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Bari, Italia, 8-10 Settembre 2014.
9. Formetta, G., M. Di Leo, A. Viglione, and A. Castellarin, 2014. Open-source computing per le applicazioni idrologiche e idrauliche, sessione al *XXXIV Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Bari, Italia, 8-10 Settembre 2014.
8. Viglione, A., A. Castellarin, J. Szolgay, L.M. Tallaksen and G. Laaha, 2014. Hydrological extremes: from droughts to floods, HS2.4.2 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 27 April - 2 May 2014.
7. Mediero, L., A. Viglione and S. Vorogushyn, 2014. Decadal flood risk changes, HS2.4.7 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 27 April - 2 May 2014.
6. Langevin, C., A. Viglione, A. Castellarin and M. Bakker, 2013. Open-Source Programming, Scripting, and Tools for the Hydrological Sciences, session at the *American Geophysical Union's 46th annual Fall Meeting*, San Francisco, 9-13 December 2013.
5. Viglione, A., A. Castellarin, J. Szolgay, L.M. Tallaksen and G. Laaha, 2013. Hydrological extremes: from droughts to floods, HS2.2 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 7-12 April 2013.
4. Mediero, L., A. Viglione and A. Kiss, 2013. Decadal flood risk changes, HS2.13 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 7-12 April 2013.
3. Viglione, A., L.M. Tallaksen, G. Laaha, A. Castellarin and J. Szolgay, 2012. Hydrological extremes: from droughts to floods, HS2.6 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 22-27 April 2012.
2. Viglione, A., J. Szolgay, L.M. Tallaksen and G. Laaha, 2011. Hydrological extremes: from droughts to floods (co-organized), HS2.11/NH1.14 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 3-8 April 2011.
1. Laaha, G., J. Szolgay, L.M. Tallaksen and A. Viglione, 2010. Hydrological extremes: from droughts to floods, HS4.12 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 2-7 May 2010.



PERSONAL INFORMATION



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Sex Male | Date of birth _____ | Nationality Italian

WORK EXPERIENCE

From 01/04/2015 to current

Seconded National Expert – Project Manager

European Environment Agency (EEA), Copenhagen, Denmark

- Climate change impacts, vulnerability, adaptation and disaster risk reduction Specific Activities:
- Co-Coordinator of 2017 EEA report *"Climate change adaptation and disaster risk reduction in Europe - Synergies for the knowledge base and policies"*
- Contributing author of chapter *"Policy context"* and of chapter *"Human influence on the climate system"* of 2016 EEA Report *"Climate change, impacts and vulnerability in Europe 2016 - An indicator-based report"*
- Lead author of chapter *"Vulnerability to climate change in European macro-regions"* of 2016 EEA Report *"Climate change, impacts and vulnerability in Europe 2016 - An indicator-based report"*
- Managing the collection, processing, and quality checking of reported information under EU Monitoring mechanism regulation No 525/2013, and their publication and dissemination on the *European Climate Adaptation Platform (Climate-ADAPT)*

Business or sector Public Sector

From 07/11/2011 to 31/12/2014 **Head of Research Unit "Institutional Relations and Adaptation Policies" – Climate Services Division (SERC)**

Euro-Mediterranean Centre on Climate Change (CMCC), Bologna (Italy) – www.cmcc.it

- Coordination and management of Team (4 persons, supported financially from external funds from National and European projects)

Business or sector National Research Centre on Climate Science and Policy

From 01/09/2006 to 31/03/2015

Senior scientist

Euro-Mediterranean Centre on Climate Change (CMCC), Bologna (Italy) – www.cmcc.it

- Research on climate science (climate modelling, climate risk, impacts and vulnerability assessments), adaptation policy and disaster risk management
- Main author of proposal of EEA funded project: *ETC/CCA (European Topic Centre on Climate Change impacts, vulnerability and Adaptation)*
- Author of proposals of Italy funded projects: *SNAC (Elementi per l'elaborazione della Strategia Nazionale Adattamento ai Cambiamenti Climatici)*, *SINTA (Simulation of climate change in the Mediterranean area)*
- Co-author of proposal of EU H2020 funded project: *PLACARD (Platform for Climate Adaptation and Risk reduction)*
- Co-author of proposals of EU FP7 funded projects: *BASE (Bottom-up climate adaptation strategies toward a sustainable Europe)*, *CIRCLE-2 (Climate impact research & response coordination for a larger Europe)*, *CLIPC (Climate Information Platform for Copernicus)*. Co-author of proposals of EU Interreg funded project: *Adaptalp (Adaptation to Climate Change in the Alpine Space)*
- Co-author of proposal of Italy co-funded project: *SWIMMER-PHASE2 (The Sustainable Water Integrated Management of the East Route in the China South-North Water Diversion Project–Phase 2)*
- Managing (Coordinator/Project Manager/Workpackage Leader/Task Leader) and contributing to projects on climate change adaptation policies, including evaluation of the effectiveness of national adaptation strategies and action plans, economic costs and benefits of adaptation actions and synergies with disaster risk reduction management: *ETC/CCA*, *BASE*, *CIRCLE-2*, *CIRCE (Climate Change and Impact Research: the Mediterranean Environment)*, *CIRCLE*, *Adaptalp*, *ClimChAlp (Climate Change, Impacts and Adaptation Strategies in the Alpine Space)*

- Coordination and contribution to the following capacity building projects in the area of climate change adaptation and impacts, vulnerability assessments: *SINTA, SWIMMER-PHASE2*
- Coordination and contribution to the following EEA funded capacity building project: *Support for work on Climate change impacts, vulnerability and adaptation (linked to the European Climate Adaptation Platform) in West Balkan countries*, in the context of the *Service Contract between EEA and ETC/CCA (within the EEA cooperation with West Balkan countries under the Instrument for pre-accession (IPA) project for 2011-2013)*
- Managing the collection, processing, and quality checking of reported information under the UNFCCC, and their publication and dissemination (coordination and contribution to chapters of Sixth and Fifth UNFCCC National Communications of Italy)
- Networking and communicating results of assessments to relevant audiences, e.g. conferences, working groups, expert and research communities, ministerial panels and international organisations (*UNFCCC, IPCC, UNCCD, UNEP, GEO, WHO*), and the media.
- Participatory planning for climate change adaptation. Stakeholder engagement
- Writing peer-reviewed publications, assessments (reports and indicators). Participation to conferences and workshops
- Knowledge transfer for decision-makers (EU, National and local level)
- Scientific/technical support to the Italian Ministry for Environment, Land and Sea on climate change science, adaptation policies (National, European and International level) and multilateral sessions (*UNFCCC, IPCC*)
- IPCC National Focal Point of Italy

Business or sectorNational Research Centre on Climate Science and Policy

From 11/04/2007 to 06/11/2011 **Head of unit “International relations and negotiations”, Research Division on Economic assessment of climate change impacts and policies (CIP)**

Euro-Mediterranean Centre on Climate Change (CMCC), Bologna (Italy) – www.cmcc.it

- Coordination and management of Team (4 persons, supported financially from external funds from National and European projects)

Business or sectorNational Research Centre on Climate Science and Policy

From 01/01/2008 to present **Senior scientist (permanent position)**

National Institute of Geophysics and Volcanology (INGV), Bologna (Italy) – www.ingv.it

- Research on climate science (climate modelling, climate risk, impacts and vulnerability assessments), adaptation policy and disaster risk management

Business or sectorPublic National Research Institution

From 01/09/2003 to 31/12/2007 **Scientist (permanent position)**

National Institute of Geophysics and Volcanology (INGV), Bologna (Italy) – www.ingv.it

- Research on climate science (climate modelling, climate risk, impacts and vulnerability assessments), adaptation policy and disaster risk management
- Main author of proposals of Italy funded projects: *SOCEUM (Feasibility study for the organisation and management of the Euro-Mediterranean Centre for Climate Change)*, *W-BLESS (Western Black sea integrated Environmental System)*
- Co-author of proposal of EU FP6 project: *CIRCLE (Climate impact research coordination for a larger Europe)*
- Co-author of proposal of EU Interreg project: *ClimChAlp*
- Co-author of proposal of Italy funded project: *ADRICOSM–PULA BAY (Adriatic sea integrated coastal areas and river basin management system pilot project – Pula Bay)*
- Managing (Coordinator/ProjectManager/WorkpackageLeader/Task Leader) projects on climate change adaptation policies, including evaluation of the effectiveness of national adaptation strategies and action plans; economic costs and benefits of adaptation actions and synergies with disaster risk reduction management: *CIRCLE, ClimChAlp*
- Coordination and contribution to the following capacity building projects in the area of climate change adaptation and impacts, vulnerability assessments: *SWIMMER-PHASE2, SINTA, W-BLESS, ADRICOSM–PULA BAY*

- Managing the collection, processing, and quality checking of reported information under the UNFCCC, and their publication and dissemination (coordination and contribution to chapters of Fourth UNFCCC National Communication of Italy)
- Networking and communicating results of assessments to relevant audiences, e.g. conferences, working groups, expert and research communities, ministerial panels and international organisations (*UNFCCC, IPCC, UNCCD, UNEP, GEO, WHO*), and the media
- Participatory planning for climate change adaptation
- Stakeholder engagement
- Writing peer-reviewed publications, assessments (reports and indicators)
- Participation to conferences and workshops
- Knowledge transfer for decision-makers (EU, National and local level)
- Scientific/technical support to the Italian Ministry for Environment, Land and Sea on climate change science, adaptation policies (National, European and International level) and multilateral sessions (*UNFCCC, UNCCD, IPCC, UNEP, GEO*)

Business or sector Public National Research Institution

From 01/05/2000 to 30/08/2003

Contract scientist

National Institute of Geophysics and Volcanology (INGV), Bologna (Italy) – www.ingv.it

- Research on marine science, climate science (climate modelling, climate risk, impacts and vulnerability assessments) and adaptation policy
- Main author of proposal of Italy funded project: *Pacific Regional Climate Bulletin (The Island Climate Update)*
- Co-author of proposals of Italy funded projects: *ADRICOSM (Adriatic sea integrated coastal areas and river basin management system pilot project)*, *CAIEDAS (Climatic and anthropogenic impact on the environmental dynamics of the Northern Adriatic Sea)*
- Coordination and contribution to the following capacity building projects in the area of climate change adaptation and impacts, vulnerability assessments: *ADRICOSM, CAIEDAS*
- Managing the collection, processing, and quality checking of reported information under the UNFCCC, and their publication and dissemination (coordination and contribution to chapters of Third UNFCCC National Communication of Italy)
- Networking and communicating results of assessments to relevant audiences, e.g. conferences, working groups, expert and research communities, ministerial panels and international organisations (*UNFCCC, IPCC, UNCCD, UNEP, GEO, WHO*), and the media
- Participatory planning for climate change adaptation
- Stakeholder engagement
- Writing peer-reviewed publications, assessments (reports and indicators)
- Participation to conferences and workshops
- Knowledge transfer for decision-makers (EU, National and local level)
- Scientific/technical support to the Italian Ministry for Environment, Land and Sea on climate change science, adaptation policies (National, European and International level) and multilateral sessions (*UNFCCC, UNCCD, IPCC, UNEP, GEO*)

Business or sector Public National Research Institution

From 01/01/1999 to 31/12/1999

Post Doc researcher

Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, Miami, Florida (USA) - www.rsmas.miami.edu/

- Research in physical oceanography (lagrangian marine modelling)
- Writing peer-reviewed publications
- Participation to conferences and workshops

Business or sector Private university and research centre

August 1998 :

Scientific consultant

Italy – Brazil Cooperation Project for marine and coastal pollution monitoring.

- Co-coordination of a coastal marine observational monitoring program, (*Vitória, Espírito Santo, Brazil*)
- Elaboration and finalization of scientific/technical reports

Business or sector Private company

From 1/12/1996 to 15/07/1998

Contract scientist

Istituto per lo Studio delle Metodologie Geofisiche e Ambientali (IMGA), National Research Council (CNR), Modena (Italy), then merged in Istituto per lo Studio dell'Atmosfera e Oceano (ISAO) National Research Council (CNR), Bologna (Italy).

- Research in physical oceanography and atmospheric physics (marine modelling and marine/meteo data analysis)
- Writing scientific/technical reports and peer-reviewed publications
- Participation to conferences and workshops

Business or sector Public National Research Institution

From August 1988 to June 1996 **Research assistant**Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, Miami, Florida (USA) - www.rsmas.miami.edu/

- Research in physical oceanography and atmospheric physics (marine modelling and marine/meteo data analysis)
- Field studies (participation to scientific marine cruises)
- Writing scientific/technical reports and peer-reviewed publications
- Participation to conferences and workshops

Business or sector Private university and research centre

EDUCATION AND TRAININGFrom 12/03/2011 to 16/03/2011 **Advanced Course: “Climate change in the Mediterranean Region – part I: Physical aspects”**International Centre for Theoretical Physics (ICTP), Trieste (Italy) www.ictp.it/

- Climate science (observations, model projections, impacts and vulnerabilities)

From August 1988 to June 1996 **Ph.D. in Meteorology and Physical Oceanography
(declared equivalent to an Italian Ph.D.)**Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, Miami, Florida (USA) - www.rsmas.miami.edu/

- Atmospheric and marine physics and chemistry
- Meteorology and Physical oceanography
- Meteorological and marine modelling
- Meteo/marine data analysis

From October 1980 to December 1987 **University Degree (“Laurea”) in Physics (final grade: 110/110)**

University of Bologna (Italy)

- General theoretical and experimental physics
- General and advanced Mathematics
- Advanced physics
- Atmospheric physics
- Statistical analysis of data

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
	TOEFL (1988), Spanish language course (Miami, FL, USA, 1993)				
Spanish	C1	C1	B2	A2	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Communication skills**
- Excellent communication and interpersonal skills, with a demonstrable ability to establish and maintain effective working relations in a multicultural environment, gained through the following experiences: (a) work experience abroad; (b) university lecturer providing science and policy courses (in English language) to international MSc and PhD students; (c) scientist participating in international and national projects; (d) lecturer and moderator in conferences, workshops and radio/TV interviews; (e) climate advisor to the Italian Ministry for Environment, Land and Sea; (f) Co-Chair/Co-Facilitator of UNFCCC/SBSTA meetings
 - Excellent command of written and spoken English, gained through the following experiences: (a) PhD student and Post Doc researcher in USA; (b) scientist writing project proposals, reports and peer-reviewed publications in English; (c) scientist participating in international projects
 - Good production of infographic and visual instrument (such as PowerPoint) in order to show data and message in clear way.
- Organisational / managerial skills**
- Working in a team both as a leader and as a team member and respond to leader input
 - Leadership skills, gained through past coordination of a Team of 4 persons and coordination of several experts in projects
 - Proven project management skills and experience, including delivery of complex projects involving a variety of stakeholders, gained through the following experience: project coordination and project management of several international and national projects involving round-table discussions, workshops with different stakeholders and coordinating reviews of project outcomes from different stakeholders
- Job-related skills**
- Proven experience and expertise in qualitative and quantitative analysis and/or evaluation of climate change adaptation policies, gained through the following experience: participation to EU funded projects (BASE, CIRCLE-2, CIRCLE, CIRCE, AdaptaLP, ClimChAlp) and Italy funded project (SNAC)
 - Proven experience and expertise in compiling assessments, such as reports and indicators, gained through the following experiences: (a) coordination (Coordinator/Project Manager/Workpackage Leader/Task Leader) and contribution to international and national projects (BASE, CIRCLE-2, CIRCLE, CIRCE, AdaptaLP, ClimChAlp, SNAC); (b) climate science/policy advisor to the Italian Ministry for Environment, Land and Sea
 - Understanding of EU climate change adaptation and environment policies, gained through the following experiences: (a) coordination (Coordinator/Project Manager/Workpackage Leader/Task Leader) and contribution to EU and national projects on climate change adaptation and environmental policies (BASE, CIRCLE-2, CIRCLE, CIRCE, AdaptaLP, ClimChAlp, SNAC); (b) climate science/policy advisor to the Italian Ministry for Environment, Land and Sea
 - Familiarity with EU disaster risk management and relevant sectoral policies, gained through the following experiences: (a) coordination and contribution to ETC/CCA activities; (b) EEA project manager in climate change adaptation and disaster risk reduction topics; (c) coordination (Coordinator/Project Manager/Workpackage Leader/Task Leader) and contribution to EU and national projects (BASE, CIRCLE-2, CIRCLE, CIRCE, AdaptaLP, ClimChAlp, SNAC)
 - Proven experience and expertise on analysis of economic costs and benefits of adaptation actions, gained through the following experience: contribution to EU and national projects (BASE, CIRCE, AdaptaLP, ClimChAlp, SNAC)
 - Proven experience working with European Union and/or international institutions, gained through the following experiences: (a) EEA project manager, (b) coordination and contribution to ETC/CCA activities; (c) coordination (Coordinator/Project Manager/Workpackage Leader/Task Leader) and contribution to EU and national projects (BASE, CIRCLE-2, CIRCLE, CIRCE, AdaptaLP, ClimChAlp, SNAC); (d) climate science/policy advisor to the Italian Ministry for Environment, Land and Sea; (e) member of Italian delegations to UNFCCC, UNCCD, IPCC, UNEP and GEO sessions; (f) IPCC Focal Point for Italy
 - Excellent experience in providing seminars, lectures
 - Excellent experience in moderation of round-tables and workshops
 - Excellent experience in review and editing working documents, reports and publications
 - Ability to work under pressure, analysing data and problems, brainstorming, comparing results, negotiating skills, planning meeting, taking decisive action, taking initiative, taking personal responsibility, thinking logically, writing clearly and concisely and writing letters, reports and publications

Computer skills

- Proficient user of Microsoft Office™ tools (Word, Excel, PowerPoint)
- Past user of Matlab and Unix

Other skills

- Author/co-author of journal articles, books, books chapters and reports on marine science, climate science (climate modelling; impacts, vulnerability assessments), adaptation policy, disaster risk management and IPCC
- Active reviewer for the following international scientific journals: Journal of Geophysical Research; Journal of Marine Systems; Global and Planetary Change; Journal of Environmental Management
- Involved in dissemination activities on climate science and policy by participating in conferences, workshops and TV/radio programs in Italy and in Europe
- Past member of Scientific Committee of *WWF-Italy* and member of Scientific Committee of *Climalteranti* (italian scientific blog on climate change science communication)
- Cofounder of *Italian Climate Network Onlus* (www.italiaclima.org), no profit NGO organization keen on climate change scientific communication and dissemination

Publications
Presentations
Projects
Conferences
Honours and awards
Institutional responsibilities
Academic and lecturing

Publications:

h-index= 11 (*Google Scholar Citations*)

<https://scholar.google.it/citations?user=BSzixgAAAAJ&hl=en>

Recent publications (Scientific articles on JCR journals)

- Vezzoli R., P. Mercogliano and **S. CASTELLARI**. 2016: "Scenari di cambiamenti climatici nel periodo 2021-2050: Quale disponibilità idrica nel bacino del fiume Po?". *Ingegneria dell'Ambiente* Vol. 3 n. 1/2016
- Montesarchio M., A.L. Zollo, E. Bucchignani, P. Mercogliano and **S. CASTELLARI**. 2014: "Performance evaluation of a high-resolution regional climate simulations in the Alpine space and analysis of extreme events". *Journal of Geophysical Research. Volume 119, Issue 6, pp. 3222-3237, 27 March 2014*
- Bucchignani E., A. Sanna, S. Gualdi, **S. CASTELLARI** and P. Schiano. 2013: "Simulation of the climate of the XX century in the Alpine space". *Nat. Hazards, Volume 67 N. 3, pp. 67:981–990*

Recent publications (Scientific articles on not JCR journals)

- Medri S., S. Venturini and **S. CASTELLARI**, 2013. "Overview of Key Climate Change Impacts, Vulnerabilities and Adaptation Action in Italy". *CMCC-Research Papers n. 178*
- Venturini S., S. Medri and **S. CASTELLARI**, 2012. "Overview of key climate change impacts, vulnerabilities and adaptation action in Europe". *CMCC Research Papers Issue RP0142, July 2012*
- Venturini S. and **S. CASTELLARI**, 2010. "IPCC, dalla verifica parte una nuova fase di riforma" (in Italian). *Ecoscienza, Numero 3 • Anno 2010, pp. 4-5*
- **CASTELLARI S.**, 2009. "I cambiamenti climatici e il processo negoziale internazionale da Kyoto verso Copenaghen" (in Italian). *Italianieuropei, No. 5, 2009, pp. 11*
- C. Della Volpe, S. Caserini, **S. CASTELLARI** and A. Zecca, 2009. "Opinioni autoreferenziali o evidenze scientifiche sul riscaldamento globale?" (in Italian). *La Chimica e l'Industria, giugno 2009, pp. 100 – 103*
- S. Medri and **S. CASTELLARI**, 2008. "UNFCCC/KP: Convenzione Quadro delle Nazioni Unite sui Cambiamenti Climatici e Protocollo di Kyoto - Sessione degli Organi Sussidiari 2-13 Giugno 2008, Bonn (Germania): Breve sintesi dei risultati inerenti la Roadmap di Bali" (in Italian). *CMCC Policy Notes, 2, 2008*
- S. Medri and **S. CASTELLARI**, 2008. "Conferenza della Convenzione Quadro delle Nazioni Unite sui Cambiamenti Climatici (UNFCCC) e del Protocollo di Kyoto. Bali (Indonesia), 3-15 Dicembre 2007 - Sintesi dei risultati" (in Italian). *CMCC Policy Notes, 1, 2008*

Chapters of UNFCCC National Communications of Italy

- **CASTELLARI S.**, S. Medri, S. Venturini, D. Pasella and L. Pierantonelli, 2013: "Chapter 6 – Vulnerability assessment, climate change impacts and adaptation measures" in Clini C., R. Binatti, G. Dramis, M. Angeloni, R. De Lauretis, M. Contaldi (eds.), "Sixth National Communication under the UN Framework Convention on Climate Change – Italy". *Ministry for Environment, Land and Sea, December 2013, pp. 142-167*
- **CASTELLARI S.**, S. Medri, F. Ciciulla, V. Artale, F. Apadula, S. Calmanti, P. Cristofanelli, F. Desiato, A. di Sarra, N. Pinardi, A. Provenzale, M. Ravaioli and P. Ruti, 2013: "Chapter 8 – Research and systematic observations" in Clini C., R. Binatti, G. Dramis, M. Angeloni, R. De Lauretis, M. Contaldi (eds.), "Sixth National Communication under the UN Framework Convention on Climate Change – Italy". *Ministry for Environment, Land and Sea, December 2013, pp. 196-240*
- **CASTELLARI S.**, S. Medri, C. Pona, F. Antonioli, V. Artale, C. Carraro, L. Ciccarese, S. Cocito, S. Corsini, J. Crimi, G. De Leo, A. De Martino, F. Desiato, D. Gaudioso, M. Guido, M. Lapi, S. Mandrone, S. Marchesi, V. Marletto, I. Montanari, V. Pavan, A. Peirano, M. Preti, V. Rupolo, M. Sciortino, F. Scotto, A. Sgobbi, S. Tibaldi, A. Toreti, E. Valpreda, S. Venturini, C. Vicini and S. Zauli-Sajani, 2009: "Chapter 6 – Vulnerability assessment, climate change impacts and adaptation measures" in Clini C., M. Angeloni, G. Dramis, G. Perrella, M. Bordet, N.M. Caminiti, S. La Motta, M. Contaldi, R. De Lauretis and **S. CASTELLARI** (eds.), "Fifth National Communication under the UN Framework Convention on Climate Change – Italy". *Ministry for Environment, Land and Sea, November 2009, pp. 128–156*

- **CASTELLARI S.**, T. Colombo, S. Medri , S. Fuzzi, F. Miglietta, P. Ruti and V. Artale, **2009:** "Chapter 8 – Research and systematic observations" in Clini C., M. Angeloni, G. Dramis, G. Perrella, M. Bordet, N.M. Caminiti, S. La Motta, M. Contaldi, R. De Lauretis and **S. CASTELLARI** (eds.), *"Fifth National Communication under the UN Framework Convention on Climate Change – Italy"*. Ministry for Environment, Land and Sea, November 2009, pp. 186 – 203
- **CASTELLARI S.**, S. Medri, T. Colombo, M. Brunetti, U. Di Matteo, R. Francaviglia, S. Fuzzi, L. Genesio, V. Marletto, M. Maugeri, T. Nanni, S. Persoglia, A. Piccolo, F. Prodi, D. Rossi, T. Sediari, C. Tomasi, R. Valentini and D. Ventrella, **2007:** "Chapter 8 - Research and Systematic Observations" in Clini C., M. Angeloni, G. Perrella, N.M. Caminiti, M. Contaldi, R. De Lauretis, M. Dalla Costa and **S. CASTELLARI** (eds.), *"Fourth National Communication under the UN Framework Convention on Climate Change – Italy"*. Ministry for Environment, Land and Sea, November 2007, pp. 250–302
- **CASTELLARI S.**, S. Medri, T. Colombo, M. Brunetti, U. Di Matteo, R. Francaviglia, S. Fuzzi, L. Genesio, V. Marletto, M. Maugeri, T. Nanni, S. Persoglia, A. Piccolo, F. Prodi, D. Rossi, T. Sediari, C. Tomasi, R. Valentini and D. Ventrella, **2007:** "Chapter 8 - Research and Systematic Observations" in Clini C., M. Angeloni, G. Perrella, N.M. Caminiti, M. Contaldi, R. De Lauretis, M. Dalla Costa and **S. CASTELLARI** (eds.), *"Fourth National Communication under the UN Framework Convention on Climate Change – Italy"*. Ministry for Environment, Land and Sea, November 2007, pp. 250–302
- **CASTELLARI S.**, A. Navarra, A. Cherchi, E. Demirov, M. Vichi, F. Quattrocchi, F. Apadula, F. Miglietta, S. Fuzzi, R. Valentini, R. Santaguida, G. Manzella, A.G. di Sarra, M. Sciortino, V. Artale, V. Rupolo, G. Pisacane, A. Carillo, P. Ruti, D. Di Rocco and F. Giorgi, **2002:** "Chapter 8 - Research and Systematic Observation" In Clini. C., M. Contaldi, D. Gaudioso and M. Angeloni (eds.), *"Third National Communication under the UN Framework Convention on Climate change – Italy"*. Ministry for Environment, Land and Sea, October 2002, pp. 165-190

Recent books and books chapters

- Gualdi S., S. Somot, W. May, **S. CASTELLARI**, M. Déqué, M. Adani, V. Artale, A. Bellucci, J.S. Breitgand, A. Carillo, R. Cornes, A. Dell'Aquila, C. Dubois, D. Efthymiadis, A. Elizalde, L. Gimeno, C. M. Goodess, .A. Harzallah, S.O. Krichak, F.G. Kuglitsch, G.C. Leckebusch, B. L'Hévéder, L. Li, P. Lionello, J. Luterbacher, A. Mariotti, R. Nieto, K.M. Nissen, P. Oddo, P. Ruti, A. Sanna, G. Sannino, E. Scoccimarro, F. Sevault, M.V. Struglia, A. Toreti, U. Ulbrich and E. Xoplaki., **2013:** "Future Climate Projections in Regional Assessment of Climate Change in the Mediterranean", in A. Navarra and L.Tubiana (eds.), *"Regional Assessment of Climate Change in the Mediterranean"*, Springer, Dordrecht, The Netherlands. DOI 10.1007/978-94-007-5781-3, 2013
- Navarra A. and **S. CASTELLARI**, **2010:** "Climate Change and Science", in M. Mascia and L. Mariani (eds.), *"Ethics and climate change. Scenarios for Justice and Sustainability"*, Cleup SC, pp. 17-26, 2010
- **CASTELLARI S.** and V. Artale, **2009** (Eds.): "I cambiamenti climatici in Italia: evidenze, vulnerabilità e impatti" (in Italian). Bononia University Press, 2009

Recent scientific and technical reports

- **CASTELLARI S.**, S. Venturini, F. Giordano, A. Ballarin Denti, A. Bigano, M. Bindi, F. Bosello, L. Carrera, M.V. Chiriacò, R. Danovaro, F. Desiato, A. Filpa, S. Fusani, M. Gatto, D. Gaudioso, O. Giovanardi, C. Giupponi, S. Gualdi, F. Guzzetti, M. Lapi, A. Luise, G. Marino, J. Mysiak, A. Montanari, D. Pasella, L. Pierantonelli, A. Ricchiuti, R. Rudari, C. Sabbioni, M. Sciortino, L. Sinisi, R. Valentini, P. Viaroli, M. Vurro and M. Zavatarelli, **2014:** "Elementi per una Strategia Nazionale di Adattamento ai Cambiamenti Climatici". (in Italian) Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma.
- **CASTELLARI S.**, S. Venturini, A. Ballarin Denti, A. Bigano, M. Bindi, F. Bosello, L. Carrera, M.V. Chiriacò, R. Danovaro, F. Desiato, A. Filpa, M. Gatto, D. Gaudioso, O. Giovanardi, C. Giupponi, S. Gualdi, F. Guzzetti, M. Lapi, A. Luise, G. Marino, J. Mysiak, A. Montanari, A. Ricchiuti, R. Rudari, C. Sabbioni, M. Sciortino, L. Sinisi, R. Valentini, P. Viaroli, M. Vurro and M. Zavatarelli (Eds.), **2014:** "Rapporto sullo stato delle conoscenze scientifiche su impatti, vulnerabilit. ed adattamento ai cambiamenti climatici in Italia". (in Italian) Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma.

- **CASTELLARI S.**, S. Venturini, B. Pozzo, G. Tellarini and F. Giordano. **2014:** "Analisi della normativa comunitaria e nazionale rilevante per gli impatti, la vulnerabilità e l'adattamento ai cambiamenti climatici". (in Italian) *Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma.*)
- Russel D., A. Jensen, E. Karali, H. Ørsted Nielsen, M. Bonjean, B. Boteler, A. Capriolo, **S. CASTELLARI**, R. Den Uyl, S. Dessai, F. Giordano, Z. Harmáčková, M. Hilden, M. João Coelho, E. Lorencová, K. Mäkinen, K. McGlade, G. Penha-Lopes, P. Sakai, L. Schmidt , J. Troeltzch, S. Weiland and G. Whitman, **2014:** "D2.2 - Knowledge use, knowledge needs and policy integration in Member States". *BASE EU Project, Work Package: WP2, Deliverable number: D2.2.* (available at: http://base-adaptation.eu/sites/default/files/BASE%20Deliverable_2_2.pdf)
- Hildén M., B. Boteler, A. Capriolo, **S. CASTELLARI**, F. Giordano, A. Jensen, E. Karali K. McGlade, K. Mäkinen, H. Nielsen, A. Pedersen, D. Russel and S. Weiland, **2013:** "Policy integration and knowledge use in the EU adaptation strategy". *BASE EU Project, Work Package: WP2, Deliverable number: D2.1.* (available at: http://base-adaptation.eu/sites/default/files/Deliverable_2_1.pdf)
- Davide M., V. Giannini, S. Venturini and **S. CASTELLARI**, **2013:** "Questionario per la Strategia Nazionale di Adattamento ai Cambiamenti Climatici: elaborazione dei risultati". (in Italian) *Rapporto per il Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma.* (available at: http://www.minambiente.it/sites/default/files/archivio/allegati/clima/snac_rapporto_questionario.pdf)
- Sousa A.G., D. Avelar, S. Venturini, A. Gomes, T. Szabolcs, T.C. Lourenco, M. Mojaisky, M. Imbard, D. Dodd, A. Rovisco, M. Leitner, I. Schausser, D. Carrilho, O. Matzer, R. Street and **S. CASTELLARI**, **2013:** "CIRCLE-2, 2013: Preliminary Findings & Key Questions: Climate Adaptation Research in a Larger Europe: an analysis at national scale" 1-14 (available at: http://www.circle-era.eu/np4/?newsId=554&fileName=CIRCLE_2_Preliminary_Findings_Climate_Ad.pdf)

Recent conferences proceedings

- **CASTELLARI S., 2013:** "Italian approach to develop a National Adaptation Strategy – lessons learnt from other European efforts". *European Climate Change Adaptation conference 2013 (ECCA), 18-20 March 2013, Hamburg, Germany*
- **CASTELLARI S., 2009:** "Climate Change, Impacts and Adaptation Strategies in the Alpine Space: Some Results from the INTERREG III B Project ClimChAlp". pp. 81-91, *Proceedings of the International Conference "Mountains as Early Indicators of Climate Change", 17-18 April 2008, Padova, Italy, Published by the United Nations Environment (UNEP) Programme Regional Office for Europe – Vienna Office*

Presentations:

Recent presentations at international conferences

- Montesarchio M., Rianna G., Mercogliano P., **CASTELLARI S.**, and Schiano P., **2015:** "An assessment of urban heat island effect adopting urban parameterizations in COSMO-CLM simulations over big cities in Northern Italy". 11:30–11:45 *EGU2015-1594*

Most relevant projects:

Project on urban adaptation - From 21/01/2013 to 05/06/2015

Bologna Local Urban Environment Adaptation Plan for a Resilient City (BLUE AP)
(LIFE+ project)

Chairman of Scientific Board

- Coordination of a Scientific Board including 14 national and international scientific experts.
- Qualitative and quantitative analysis and/or evaluation of climate change adaptation policies including economic costs and benefits of adaptation actions and synergies with disaster risk reduction management.
- Writing and reviewing of assessments (reports and indicators).
- Participation to conferences and workshops.

Project on impacts, vulnerability, adaptation and disaster risk reduction at EU and national level - From 1/01/2011 to 31/03/2015

European Topic Centre on climate Change Impacts, Vulnerability and Adaptation (ETC/CCA)
(European Environment Agency – EEA)

Project Manager

- Coordination of project activities.
- Preparation and finalization of progress reports and review of financial reports. Preparation of annual work plan.
- Participation to tasks scientific/technical activities.

EU climate innovation initiative - From June 2013 to December 2013
Climate-KIC

CMCC representative

- Member of the Adaptation Services Platform. Reviewing of proposals and documents.

Project for capacity building to assist West Balkan countries with reporting obligations in the area of climate change adaptation - From 1/01/2013 to 31/12/2013

Support for work on Climate change impacts, vulnerability and adaptation (linked to the European Climate Adaptation Platform) in West Balkan countries

(Service Contract between EEA and ETC/CCA (within the EEA cooperation with West Balkan countries under the Instrument for pre-accession (IPA) project for 2011-2013))

Coordinator

- Coordination of project activities and finalization of report and review of financial report

EU project to analyse and evaluate adaptation policies - From 1/10/2012 to 31/03/2015

Bottom-up Climate Adaptation Strategies towards a Sustainable Europe (BASE)
(EU FP7 Project)

Scientist

- Writing and reviewing scientific/technical reports on climate change adaptation policies, including evaluation of the effectiveness of national adaptation strategies and action plans; economic costs and benefits of adaptation actions and synergies with disaster risk reduction management.
- Writing peer-reviewed publications. Participation to conferences and workshops.

National project to elaborate a National Adaptation Strategy for Italy - From 6/07/2012 to 5/07/2014

Elements for elaboration of a National Adaptation Strategy to Climate Change (SNAC)
(Italian National Project funded from Italian Ministry for Environment, Land and Sea)

Coordinator and Chairman of a Scientific Panel

- Coordination of all project activities.
- Qualitative and quantitative analysis and evaluation of climate change adaptation policies including economic costs and benefits of adaptation actions and synergies with disaster risk reduction management.
- Writing and reviewing of scientific/technical reports. Co-writing a National Adaptation Strategy
- Participation to conferences, workshops and ministerial panels. Chairman of Scientific Panel including about 120 scientists.

EU project to share knowledge on climate adaptation and the promotion of long-term cooperation among national and regional climate change programmes - From 1/06/2010 to 31/04/2014

Climate Impact Research and Response Coordination for a Larger Europe (CIRCLE-2)
(EU FP7 Project)

Workpackage Co-Leader

- Coordination of a Workpackage activities.
- Qualitative and quantitative analysis and evaluation of climate change adaptation policies, climate research funding policies and impacts, vulnerability assessments.
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops.

EU project to assess impacts, vulnerability and adaptation options for the Mediterranean region - From 2010 to 2011

Climate Change and Impact Research: the Mediterranean Environment (CIRCE)
(EU FP6 Project)

Scientist

- Writing and reviewing of scientific/technical reports

EU initiative - From 2010 to 2011

Joint Programming Initiative – Climate (JPI-Climate) “Connecting Climate Knowledge for Europe”

CMCC representative

- Reviewing of scientific/technical reports

EU project to assess impacts, vulnerability and adaptation options for the Alpine region - From 1/09/2008 to 31/08/2011

Adaptation to Climate Change in the Alpine Space (Adaptalp)
(Interreg III B Project – Alpine Space)

Scientist

- Qualitative and quantitative analysis and evaluation of climate change adaptation policies.
- and impacts, vulnerability assessments.
- Writing and reviewing of scientific/technical reports.
- Participation to conferences and workshops.

EU project to share knowledge on climate adaptation and the promotion of long-term cooperation among national and regional climate change programmes - From 1/10/2005 – 30/09/2009

Climate Impact Research Co-ordination for a Larger Europe (CIRCLE)
(EU FP6 Project)

Workpackage Leader

- Coordination of a Workpackage activities.
- Qualitative and quantitative analysis and evaluation of climate change adaptation policies, climate research funding policies and impacts, vulnerability assessments.
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops

EU project to assess impacts, vulnerability and adaptation options for the Alpine region: - From 1/03/2006 – 31/03/2008

Climate Change, Impacts and adaptation strategies in the Alpine Space (ClimChAlp)
(Interreg III B Project – Alpine Space)

Workpackage Leader

- Coordination of a Workpackage activities.
- Qualitative and quantitative analysis and evaluation of climate change adaptation policies, and impacts, vulnerability assessments.
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops.

Italian funded capacity building project to conduct climate projections and impacts assessments in an area in China - From 25/01/2005 to July /2006

The Sustainable Water Integrated Management of the East Route in the China South-North Water Diversion Project–Phase 2 (SWIMER-PHASE 2)

(International Cooperation Project funded from Italian Ministry for Environment, Land and Sea)

Workpackage Leader

- Coordination of Workpackage activities.
- Qualitative and quantitative analysis and evaluation of climate change impacts, vulnerability.
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops

Italian funded capacity building project to conduct climate projections and impacts assessments in an area in Croatia - From 15/10/2004 to 28/2/2006

Adriatic sea integrated coastal areas and river basin management system pilot project – Pula Bay (ADRICOSM – PULA BAY)

(International Cooperation Project funded from Italian Ministry for Environment, Land and Sea)

Project manager

- Coordination of all project activities.
- Qualitative and quantitative analysis and evaluation of environmental and climate change impacts,
- Coordination of all project activities.
- Qualitative and quantitative analysis and evaluation of environmental and climate change impacts, vulnerability.

Writing and reviewing of scientific/technical reports. Participation to conferences and workshops.

Italian funded capacity building project to conduct climate projections and impacts assessments in Romania - From 18/01/2003 to 17/03/2004

Western Black sea integrated Environmental System (W-BLESS)

(International Cooperation Project funded from Italian Ministry for Environment, Land and Sea)

Project manager

- Coordination of all project activities.
- Qualitative and quantitative analysis and evaluation of environmental and climate change impacts, vulnerability.
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops.

Italian funded capacity building project to conduct climate projections and impacts assessments in Slovenia and Croatia - From 1/10/2001 to 31/03/2005

Adriatic sea integrated coastal areas and river basin management system pilot project (ADRICOSM)

(International Cooperation Project funded from Italian Ministry for Environment, Land and Sea)

Project Manager

- Coordination of all project activities.
- Qualitative and quantitative analysis and evaluation of environmental and climate change impacts, vulnerability.
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops.

Italian funded capacity building project to elaborate and produce a Pacific Regional Climate Bulletin for the Pacific small islands states - From 1/10/2000 to 30/09/2001

Pacific Regional Climate Bulletin (The Island Climate Update)

(International Cooperation Project funded from Italian Ministry for Environment, Land and Sea)

Project Manager

- Coordination of all project activities
- Writing and reviewing of scientific/technical reports. Participation to conferences and workshops.

Honours and awards:

2013:

Member of Scientific Board - European Climate Change Adaptation Conference (ECCA) 2013, 18-20 March 2013, Hamburg, Germany

25/10/2007:

Diploma "for the important role in the Intergovernmental Panel on Climate Change (IPCC)" by the Italian Prime Minister On. Romano Prodi and Minister for Environment On. Alfonso Pecoraro Scanio

12/11/2003:

Koczy Prize and Fellowship "for the best PhD Thesis in progress of the year" by the Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, FL (USA)

Institutional responsibilities:

From August 2006 to 31/03/2015:

National Focal Point of IPCC (Intergovernmental Panel on Climate Change) for Italy

- Head or member of Italian delegations at IPCC plenaries and meetings
- Preparation and updating list of national experts to help implement the IPCC work programme.
- Provision of integrated comments on the accuracy and completeness of the scientific
- Provision of integrated comments on the accuracy and completeness of the scientific and/or technical content and the overall scientific and/or technical balance of drafts of IPCC reports
- Reporting and presentations to Italian Minister for Environment, Land and Sea
- Partecipation to conferences and workshops

From May 2000 to 31/03/2015:

Advisor on climate science, adaptation policies and disaster risk reduction policies

Italian Ministry for Environment, Land and Sea

- Scientific/technical support in climate science, adaptation policies and disaster risk reduction policies
- Review of National projects
- Preparation of scientific/technical reports and dossiers for Italian Ministry for Environment, Land and Sea and other panels
- Coordination and contribution of chapters of UNFCCC National Communications of Italy
- Participatation to International, European and National panels
- Partecipation to conferences and workshops

From May 2000 to 31/03/2015:

Italian delegate and negotiator in climate multilateral sessions

Italian Ministry for Environment, Land and Sea

- Partecipation in Italian delegations in climate multilateral sessions (UNFCCC, IUNCCD, IPCC, UNEP, GEO)
- EU Negotiator during the Italian Presidency of the Council of the EU at UNCCD COP6 (August 25-September 5, La Habana, Cuba) and UNFCCC COP9 (December 1-12, 2003, Milan, Italy)

From May 2014 to October 2014:

Italian Delegate and Science Expert

Union for the Mediterranean (UfM)

- Partecipation to:
 - Ministerial Meeting on the Environment and Climate Change (13 May 2014, Athens, Greece)
 - 1st meeting of the UfM Climate Change Expert Group (13-14 October 2014, Barcelona, Spain)

From 2001 to April 2012:

Italian expert

EU Science Expert Group (EGsci), EU WPIEI-CC (European Union Working Party on International Environmental Issues - Climate Change) of EU Council

- Partecipation to EU meetings on behalf of Italian Ministry for Environment, Land and Sea

From May 2005 to Dec. 2011:

Co-Chair/Co-Facilitator of UN Groups

UN Framework Convention on Climate Change (UNFCCC)

- Co-Chair/Co-Facilitator of Informal Consultations and Contact Groups on research at UNFCCC - SBSTA
- Preparation of UNFCCC draft conclusions and decisions

Academic and lecturing:

From 2008 to 2015:

Lecturer

University Ca' Foscari of Venice, Venice (Italy), Ph.D. Programme "Science and Management of Climate Change".

Lecturer of annual 30 hrs. course: "Climate Change and International Policies"

From 24/2/2007 to 02/03/2007:

Lecturer

University of Tuscia, Viterbo (Italy), Master Programme "Global Environmental Protection and International Policies".

▪ Lecturer of 8 hrs. course: "Function, structure and role of IPCC" and "Adaptation Policies"

From 17/03/2006 to 25/03/2006:

Lecturer

University of Tuscia, Viterbo (Italy), Master Programme "Global Environmental Protection and International Policies".

- Lecturer of 8 hrs. course "Climate change"
- Lecturer of 12 hrs. course: "Function, structure and role of IPCC" and "Adaptation Policies"

From April 2006 to July 2006:

Lecturer and Responsible of Teaching activities

University of Bologna, Ravenna (Italy), Corso di Alta Formazione Universitaria "Environmental Cooperation and Sustainable Development Policies: Environment - Energy - Transport

- Lecturer of 12 hrs. course "The scientific base of climate change"

From 11/03/2005 to 12/02/2005:

Lecturer

University of Tuscia, Viterbo (Italy), Master Programme "Global Environmental Protection and International Policies".

- Lecturer of 8 hrs. course "Climate change"

PGSIM/2016/
Bologna,

Gent.mo Dott.

Oggetto: Contratto di prestazione occasionale per la realizzazione del progetto LIFE15/CCA/IT/000035 RainBo.

A conferma degli accordi verbalmente intervenuti, con la presente Le assegniamo il presente incarico alle seguenti principali condizioni:

1. Oggetto

Forma oggetto del presente incarico l'attività di membro dell'Advisory Board del progetto Life RainBo.

Nell'espletamento dell'incarico che Le viene conferito, ferma restando la Sua piena autonomia, Ella terrà conto delle nostre indicazioni al fine di coordinare la Sua attività con i programmi stabiliti dall'Agenzia.

Le attività oggetto del presente incarico dovranno essere espletate nel rispetto delle disposizioni di cui al DPR n. 62/2013 (Codice di comportamento dei dipendenti pubblici) e delle disposizioni di cui al Codice di comportamento aziendale di Arpaem Emilia-Romagna, applicabili per quanto compatibili con il presente contratto di lavoro autonomo.

2. Impegno personale

Per lo svolgimento di quanto indicato al punto 1., Lei assicurerà la Sua disponibilità al fine di un puntuale e corretto espletamento delle attività previste, senza alcun vincolo di orario.

3. Durata

Le attività di cui al punto 1) saranno espletate entro il 31/07/2019, per un impegno massimo di 30 giorni lavorativi.

4. Condizioni economiche

Per lo svolgimento delle attività di cui al punto 1. Le verrà riconosciuto un compenso forfetario lordo di **euro 5.000,00** comprensivo di tutte le spese relative allo svolgimento del presente incarico, che viene da Lei accettato senza riserva alcuna.

Tale compenso dovrà essere richiesto in due soluzioni, su presentazione di Nota debito, secondo le seguenti scadenze:

- Euro 2.500,00 al 31/12/2016;
- Euro 2.500,00 al 15/06/2019.

Prendiamo atto della Sua dichiarazione, sotto la Sua unica responsabilità, che le prestazioni oggetto del nostro accordo sono di natura occasionale e sono quindi escluse dal campo di applicazione dell' I.V.A.

5. Pagamenti

L'importo a Lei dovuto sarà assoggettato a ritenuta d'acconto obbligatoria pari al 30% (trenta per cento), che verrà operata, al pagamento, sul valore lordo totale per il quale ci verrà rilasciata la Nota debito.

Tale Nota debito dovrà essere intestata a: Arpae Emilia-Romagna, sede legale Via Po, 5 – 40139 Bologna. C.F. e P.IVA: 04290860370 e dovrà essere trasmessa esclusivamente a mezzo posta elettronica al seguente indirizzo pec:

workflow_amm@cert.arpa.emr.it

Arpae provvederà ai pagamenti entro 30 giorni dalla data di ricevimento della Nota di debito.

Lei si impegna a comunicare ad Arpae eventuali modifiche al Suo regime fiscale che dovessero intercorrere tra il momento dell'emissione della Nota di debito al momento della liquidazione della stessa da parte della scrivente Amministrazione.

6. Recesso

L'eventuale rinuncia all'incarico da parte Sua o l'eventuale revoca da parte nostra dell'incarico conferitoLe dovrà essere notificata, da una parte all'altra, con un preavviso di almeno 7 gg.

Le verrà compensata comunque solo l'attività da Lei effettivamente svolta fino a quel momento.

In caso di violazione delle disposizioni di cui al DPR n. 62/2013 (Codice di comportamento dei dipendenti pubblici) e/o delle disposizioni di cui al Codice di comportamento aziendale di Arpae Emilia-Romagna, applicabili - per quanto compatibili - alla prestazione oggetto del presente incarico, si prevede la possibilità per Arpae di risolvere anticipatamente il presente contratto di prestazione occasionale, nel rispetto dei principi di gradualità e proporzionalità.

7. Impegno di riservatezza

Lei è tenuta al più assoluto riserbo sui dati e sulle informazioni di cui venisse a conoscenza durante l'esecuzione dell'attività di cui all'oggetto.

E' vietata la riproduzione di qualsiasi documento.

Lei si impegna, inoltre, a mantenere riservate e a non divulgare a terzi tutte le informazioni trasmesseLe nell'ambito del presente incarico.

8) Trattamento dei dati personali

Arpaе in relazione alla raccolta dei dati personali del collaboratore, effettuata in occasione della sottoscrizione del presente contratto, si impegna a rispettare quanto previsto dal D. Lgs. n. 196/2003. Si allega al presente contratto l'informativa prevista dall'art. 13 del sopra citato Decreto Legislativo.

9) Controversie

Per qualunque controversia dovesse insorgere nell'interpretazione e nell'esecuzione del presente contratto il foro esclusivamente competente è quello di Bologna.

10) Clausole finali

Il presente contratto formalizza la totalità degli accordi tra le parti. Qualsiasi modifica o correzione dovrà essere preventivamente concordata per iscritto.

La collaborazione richiesta, sia per le sue specifiche caratteristiche (nessun vincolo gerarchico, nessuna predisposizione di direttive attinenti l'intrinseco svolgimento dell'attività, nessun obbligo di orario di lavoro), sia perché così voluto e dichiarato dalle parti, non comporta alcun rapporto di lavoro subordinato.

L'Ente resta sollevato da ogni e qualsiasi responsabilità derivante dall'espletamento dell'incarico.

Il presente contratto è soggetto a registrazione in caso d'uso a cura e spese della parte richiedente.

In ottemperanza a quanto previsto dall'art. 17 del DPR n. 62/2013, si allega al presente contratto copia dello stesso DPR n. 62/2013 (Codice di comportamento dei dipendenti pubblici). Si allega, altresì, al presente contratto, il Codice di comportamento aziendale di Arpaе Emilia-Romagna, in ottemperanza a quanto previsto dall'art. 14 c. 6 dello stesso Codice. I suddetti documenti sono consultabili anche sul sito web di Arpaе, nella Sezione "Amministrazione Trasparente", sottosezione "Disposizioni Generali- Atti Generali".

L'incaricato è, altresì, informato che sul sito web di Arpaе, nella Sezione "Amministrazione Trasparente", sottosezione "Anticorruzione", è pubblicato il *Piano triennale per la prevenzione della Corruzione*.

Nel formularLe i migliori auguri di una proficua collaborazione La preghiamo, ove d'accordo con il contenuto del contratto, di restituire all'Ente copia della presente da Lei sottoscritta, pagina per pagina, per integrale accettazione e conferma del contenuto del contratto medesimo, nonché dei relativi allegati.

Distinti saluti.

IL DIRETTORE
Servizio Idro-Meteo-Clima
Arpae Emilia-Romagna
- Dott. Carlo Cacciamani -

Allegati:

- 1) Informativa sulla privacy ex art. 13 D.lgs. 196/2003;
- 2) DPR n. 62/2013 (Codice di comportamento dei dipendenti pubblici);
- 3) Codice di Comportamento aziendale di Arpae Emilia-Romagna.

Per accettazione

Il collaboratore: dott.

Ai sensi dell'art. 1341 e 1342 C.C. si intendono specificatamente approvate le disposizioni contenute negli artt.:

6. Recesso
7. Impegno di riservatezza
8. Trattamento dei dati personali
9. Controversie
10. Clausole finali

Per accettazione

Il collaboratore: dott.

Informativa ex art. 13 D.lgs. 196/2003

Gentile Signore,

Desideriamo informarLa che il D.lgs. n. 196 del 30 giugno 2003 ("Codice in materia di protezione dei dati personali") prevede la tutela delle persone e di altri soggetti rispetto al trattamento dei dati personali.

Secondo la normativa indicata, tale trattamento sarà improntato ai principi di correttezza, liceità e trasparenza e di tutela della Sua riservatezza e dei Suoi diritti.

Ai sensi dell'articolo 13 del D.lgs. n. 196/2003, pertanto, Le forniamo le seguenti informazioni:

1. I dati da Lei forniti verranno trattati per l'adempimento degli obblighi legali connessi alla gestione economica, amministrativa e fiscale del presente contratto.
2. Il trattamento sarà effettuato mediante strumenti manuali ed informatici.
3. Il conferimento dei dati ha natura facoltativa. Tuttavia il rifiuto di fornire i dati richiesti da ARPAE potrebbe determinare l'impossibilità di dare seguito agli adempimenti derivanti dalla sottoscrizione del presente contratto.
4. I dati non saranno comunicati ad altri soggetti, né saranno oggetto di diffusione.
5. Il titolare del trattamento è: ARPAE Emilia Romagna - Via Po, 5 – BOLOGNA
6. Il responsabile del trattamento è il Direttore dott. Carlo Cacciamani con Sede in Bologna - Viale Silvani 6.
8. In ogni momento potrà esercitare i Suoi diritti nei confronti del titolare del trattamento, ai sensi dell'art. 7 del D.lgs.196/2003, che per Sua comodità riproduciamo integralmente:

Decreto Legislativo n.196/2003, Art. 7 - Diritto di accesso ai dati personali ed altri diritti

1. L'interessato ha diritto di ottenere la conferma dell'esistenza o meno di dati personali che lo riguardano, anche se non ancora registrati, e la loro comunicazione in forma intelligibile.
2. L'interessato ha diritto di ottenere l'indicazione:
 - a) dell'origine dei dati personali;
 - b) delle finalità e modalità del trattamento;
 - c) della logica applicata in caso di trattamento effettuato con l'ausilio di strumenti elettronici;
 - d) degli estremi identificativi del titolare, dei responsabili e del rappresentante designato ai sensi dell'art. 5, comma 2;
 - e) dei soggetti o delle categorie di soggetti ai quali i dati personali possono essere comunicati o che possono venirne a conoscenza in qualità di rappresentante designato nel territorio dello Stato, di responsabili o incaricati.
3. L'interessato ha diritto di ottenere:
 - a) l'aggiornamento, la rettificazione ovvero, quando vi ha interesse, l'integrazione dei dati;
 - b) la cancellazione, la trasformazione in forma anonima o il blocco dei dati trattati in violazione di legge, compresi quelli di cui non è necessaria la conservazione in relazione agli scopi per i quali i dati sono stati raccolti o successivamente trattati;
 - c) l'attestazione che le operazioni di cui alle lettere a) e b) sono state portate a conoscenza, anche per quanto riguarda il loro contenuto, di coloro ai quali i dati sono stati comunicati o diffusi, eccetto il caso in cui tale adempimento si rivela impossibile o comporta un impiego di mezzi manifestamente sproporzionato rispetto al diritto tutelato.
4. L'interessato ha diritto di opporsi, in tutto o in parte:
 - a) per motivi legittimi al trattamento dei dati personali che lo riguardano, ancorché pertinenti allo scopo della raccolta;
 - b) al trattamento di dati personali che lo riguardano a fini di invio di materiale pubblicitario o di vendita diretta o per il compimento di ricerche di mercato o di comunicazione commerciale.

N. Proposta: PDTD-2016-931 del 25/11/2016

Centro di Responsabilità: Servizio Idro-Meteo-Clima

OGGETTO: Servizio Idro-Meteo-Clima. Presa d'atto della costituzione del comitato scientifico internazionale “International Advisory Board” per il progetto Life 15 CCA/IT/000035 RainBO e conferimento di incarichi di prestazione d’opera intellettuale di natura occasionale.

PARERE CONTABILE

Il/La sottoscritto/a Dott/Dott.ssa Ranieri Daniela, Responsabile Amministrativo/a di Servizio Idro-Meteo-Clima, esprime parere di regolarità contabile ai sensi del Regolamento Arpae sul Decentramento amministrativo.

Data 29/11/2016

Il/La Responsabile Amministrativo/a
