## EFRAT MORIN

## CURRICULUM VITAE

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Born 14/1/1964

**HIGHER EDUCATION:**

1988-1991 B.Sc., Hebrew University of Jerusalem, Faculty of Science, Mathematics and Computer Sciences, “Amirim” Excellency Program.

1995-1996 M.Sc., Hebrew University of Jerusalem, Faculty of Science, Department of Atmospheric Sciences, Runoff Evaluation Using Meteorological Radar Data, Hydrological Model and G.I.S, Supervisor: Prof. Daniel Rosenfeld and Dr. Arie Ben-Zvi.

1998-2002 Ph.D., Hebrew University of Jerusalem, Faculty of Science, Institute of Earth Sciences, Using Meteorological Radar Data for Runoff Evaluation in Small Basins, Supervisor: Prof. Yehouda Enzel and Prof. Uri Shamir.

2000-2003 Post-Doctoral Fellowship at the University of Arizona, Tucson, Department of Hydrology and Water Resources, Runoff Prediction Using Meteorological Radar Rainfall Data in Arid and Semi-arid Basins. Host: Prof. Soroosh Sorooshian.

**APPOINTMENTS AT THE HEBREW UNIVERSITY:**

2003-2009 Lecturer, Faculty of Social Sciences, Department of Geography.

2009-2012 Senior lecturer, Faculty of Social Sciences, Department of Geography

2012-2016 Associate Professor, Faculty of Social Sciences, Department of Geography

2016-to date Associate Professor, Faculty of Mathematics and Sciences, Institute of Earth Sciences

**ADDITIONAL FUNCTIONS/TASKS AT THE HEBREW UNIVERSITY:**

2013-2016 Head, Geography department

2013-2016 Head, Hydrology and Water Resources program

2004 Member of the faculty teaching committee

2005-2012 Coordinator of the track of Physical Geography

2007-2009 Advisor to B.A. students

2007 Member of the faculty library committee

2008 Member of the department computational infrastructure committee

2009-2012 Advisor of the division of Geoinformatics

2010-to date Member of the university GIS committee

2010-2012 Member of the university safety committee

2010-2012 Member of the university committee for Teaching Associate travel funds

**SERVICES IN OTHER ACADEMIC/RESEARCH INSTITUIONS:**

2012-2013: Adjunct Research Scientist, Lamont-Doherty Earth Observatory, Columbia University

**OTHER ACTIVITIES:**

**Honors and Awards**

1995 Shindel Award, Institute of Earth Sciences, Hebrew University of Jerusalem

1997 Goldshmidt Award, Israeli Association for Water Resources

2000-2002 The Vaadia-BARD Postdoctoral Fellowship

2004 Golda Meir Foundation Fellow

2015 The Rector's Award for outstanding researchers

**Editorial Board**

2008-2013 Journal of Hydrology, Editorial Board

2009-to date Hydrology and Earth System Sciences, Editorial Board

2015 Special Issue on Hydrologic Applications of Weather Radar, Journal of Hydrology

**Participation in Regional/International Projects and Working Groups**

2009-to date Member of the international working group of HyMeX (HYdrological cycle in the Mediterranean Experiment)

2009-to date Member of the NASA PMM (Precipitation Measurement Missions) Science Team, PI of the Israeli team.

2015-to date Member of the precipitation committee of the hydrology section of AGU

**RESEARCH INTERESTS:**

Hydrometeorology, hydrological processes, flash flood processes and prediction, hydrometeorological modeling, precipitation estimation from weather radar, spatial and temporal patterns of precipitations, incorporating remote sensing information into hydrological studies, surface water hydrology, climate change, impact of climate change on environmental systems, drought analysis.

**ACTIVE RESEARCH PROJECTS:**

* Predicting flash floods and their risk in a dry climate. United states – Israel Binational Science Foundation (BSF). Morin E., Enzel Y., Dayan U., Georgakakos K. and Shamir E.
* Climate change impacts on the hydrological response and on flash flood frequency and magnitude of Israel drainage basins. Israel Ministry of Environmental Protection. Morin E., Yair Y. and Price C.
* Relationships between precipitation magnitude and patterns and the Dead-Sea lake levels at late Holocene.
* Development of a radar-based flood warning model for the Dead-sea region.
* Quantitative Estimation of High Spatio-Temporal Resolution Rain Intensity Data Based on Information From a Meteorological Radar System and Ground Rain Stations. Israel Ministry of Agriculture and Rural Development.
* Development of a stochastic weather generator model for computation of a storm ensemble. Israel Ministry of Agriculture and Rural Development and the Jewish National Fund.
* Cereal Production and Climate Change. Israel Ministry of Agriculture and Rural Development. Svoray T., Morin E., Bonfil D. and Zeidenberg R.
* Analysis of rain intensity distribution using micro-radar and the relationships with flash-floods in the Bokek catchment (a case of the Judea Desert). Israel Ministry of Science and Technology. Cohen C., Morin E. and Freund A.
* The flooding potential of rainstorms: a new approach utilizing multi-sensor/multi-scale data and precipitation structural elements. Israel Science Foundation (ISF).
* Potential impacts of climate change on population dynamics of phloem-feeding-insects in the Eastern Mediterranean. Ring. Morin S. and Morin E.
* High-resolution precipitation estimation using multisensory system for improving agricultural management and environmental benefits. Israel Ministry of Science and Technology – Italy-Israel Scientific and Technological Cooperation. Morin E., Notarpietro R., and Gabella M.
* Towards sustainable agricultural management using high-resolution X-band radar precipitation estimates. Israel Ministry of Agriculture and Rural Development – The Italy-Israel Cooperation in Agricultural Research Program. Morin E., De Vita P., Bonfil D., Basso B., Notarpietro R. and Gabella M.
* SWIPE: Predicting whitefly population outbreaks in changing environments, Arimnet – Coordination of the Agricultural Research in the Mediterranean Area: Israeli PIs: Zchori-Fein E., Morin S., Morin E.
* Changes in the regulated channel of Nahal Arava in the evaporation ponds section. The Dead Sea Work. Enzel Y., Morin E. and Grodek T.
* Water erosion as the cause of loss of fertile land in Israel: dynamic processes and tools to cope and to minimize damage, . Israel Ministry of Agriculture and Rural Development. Svoray T., Furman A., Assouline S., Morin E., and Filin S.
* Evaluating parameters of potential extreme floods in the Dead Sea using observed and synthetic storm data and hydrological model, Dead Sea Drainage Authority.
* Hydrometeorological signatures of global extreme precipitation events. Israel Science Foundation (ISF).
* The Eastern Mediterranean - Levant late Quaternary climates: Paleohydrology and Extreme Floods from the Dead Sea ICDP Core (PALEX), Trilateral Program of the German Science Foundation (DFG). Brauer A., Hasan J., Enzel Y., Al-Qutob M., Erel Y., Lazar B., Morin E., Stein M., Plessen B., Tjallingii R.
* Extreme Floods in Arid/Semi-Arid Watersheds: Paired Studies in Israel and the US. NSF-BSF. Smith J. and Morin E.

**STUDENTS:**

Master's degree students:

2005-2006 Yonatan Bahat, co-supervisor: Prof. Yehouda Enzel

2006-2009 Hagit Yakir

2006-2009 Shahar Rozalis, Tel-Aviv University, co-supervisors: Prof. Colin Price and Prof. Yoav Yair

2008-2014 Tamar Ryb

2009-2013 Alon Ronen

2010-2013 Maya Bar-Tov, co-supervisor – Prof. Uri Dayan

2010-2013 Ofir Miler, Ben-Gurion University, co-supervisors: Prof. Tal Svoray and Dr. David Bonfil

2011-2013 Anton Lokshin

2011-to date Reut Salomon, co-supervisors: Prof. Yehouda Enzel and Dr. Itai Haviv

2014-2016 Moshe Armon

2014-to date Idit Belachsen

2014-to date Bar Avni

Doctoral degree students:

2004-2009 Nathan Sheffer, co-supervisors: Prof. Haim Gvirtzman and Prof. Amos Frumkin

2009-2014 Nadav Peleg

2012-to date Elad Dante, co-supervisors: Prof. Yehouda Enzel and Dr. Nadav Lensky

2012-to date Yair Rinat

2016-to date Moshe Armon, co-supervisor: Prof. Yehouda Enzel

Post-doctoral fellows and visitors:

2011-to date Royi Zidon, post-doc

2013-to date Francesco Marra, post-doc

2011 Daniel Karran – Visiting graduate student (M.Sc. Integrated Water Resources Management program at McGill University in Montreal, Canada).

2012 Amy Winterhalt – Visiting graduate student (M.Sc. Integrated Water Resources Management program at McGill University in Montreal, Canada).

2013 Christoph Kormann, Visiting graduate student (PhD, Potsdam University).

**COURSES:**

* Introduction to Geomorphology and Hydrology (40103, Semester B, Bachelor’s, with Tamir Grodek)
* Introduction to Statistics for Geography Students (40125, Semester A, Bachelor’s)
* Surface Water Hydrology: Processes, Observations and Modeling (40701, Semester A, Master’s)
* Introduction to Spatial Models (40300, Semester B, Bachelor’s, with Daniel Felsenstein)
* Hydrological Processes (40723, Semester A, Master’s)
* Modeling Environmental Systems (40478, Semester A, Master’s)
* Analysis of Environmental Data With Advanced Statistical Methods (40724, Semester B, Master’s)
* The Physical Environment: Past, Present, Future (Seminar in Physical Geography) (40333, Yearly, Bachelor’s, with all Physical Geography Teachers)
* Seminar in Hydrology (40945, Yearly, Master's)
* Introduction to Hydrology (40106, Semester A, Bachelor's)

**LIST OF PUBLICATIONS:**

1. **Morin E.**, Enzel Y., Shamir U. and Garti R. (2001) The Characteristic Time Scale for Basin Hydrological Response Using Radar Data. J. Hydrol., 252, 85-99.
2. Dayan U., Ziv B., Margalit A., **Morin E.** and Sharon D. (2001) A Severe Autumn Storm Over the Middle-East: Tropical-Extratropical Interaction, Mesoscale Convection and Topographic Effects. Theor. Appl. Climatol., 69(1/2), 103-122.
3. **Morin E.**, Georgakakos K. P., Shamir U., Garti R. and Enzel Y. (2002) Objective, Observational-based, Automatic, Estimation of the Catchment Response Time Scale. Water Resour. Res., 38(10), 1212-1227.
4. **Morin E.**, Krajewski W. F., Goodrich D. C., Gao X., and Sorooshian S. (2003) Estimating Rainfall Intensities from Weather Radar Data: The Scale Dependency Problem. J. Hydrometeorol., 4(5), 782-797.
5. **Morin E.**, Georgakakos K. P. Shamir U., Garti R., and Enzel Y. (2003) Investigating the Effect of Catchment Characteristics on the Response Time Scale Using Distributed Model and Weather Radar Information. In: Y. Tachikawa, B. E. Vieux, K. P. Georgakakos & Eiichi Nakakita (eds).Weather Radar Information and Distributed Hydrological Modeling . IAHS Publ. no. 282. p. 177–185.
6. BenDavid-Novak H., **Morin E.** and Enzel Y. (2004) Modern Extreme Storms and the Rainfall Thresholds for Initiating Debris Flows on the Hyperarid Western Escarpment of the Dead Sea, Israel. Geol. Soc. Am. Bull., 116, 718-728.
7. Amitai E., Nystuen J. A., Liao L., Meneghini R., and **Morin E.** (2004) Uniting Space, Ground, and Underwater Measurements for Improved Estimates of Rain Rates. IEEE Geoscience and Remote Sensing Letters, 1(2), 35-38.
8. Shamir E., Imam B., **Morin E.**, Gupta H. V. and Sorooshian S. (2005) The Role of Hydrograph Indices in Parameter Estimation of Rainfall-Runoff Models. Hydrol. Process., 19, 2187–2207.
9. **Morin E.**, Maddox R. A., Goodrich D. C., and Sorooshian S. (2005) Radar Z-R Relationship for Summer Monsoon Storms in Arizona. Weather Forecast., 20(4), 672-679.
10. **Morin E.**, Goodrich D. C., Maddox R. A., Gao X., Gupta H. V., and Sorooshian S. (2005) Rainfall Modeling for Integrating Radar Information into Hydrological Model. Atmospheric Science Letters, 6(1), 23-30.
11. **Morin E.**, Goodrich D. C., Maddox R. A., Gao X., Gupta H. V., and Sorooshian S. (2006) Spatial Patterns in Thunderstorm Rainfall Events and their Coupling with Watershed Hydrological Response. Adv. Water Resour., 29, 843–860.
12. Dayan U. and **Morin E.** (2006) Flash Flood-producing Rainstorms over the Dead Sea: A Review. In: Enzel, Y., Agnon, A., and Stein, M., (Editors). New Frontiers in Dead Sea Paleoenvironmental Research, Geological Society of America Special Paper 401, 53-62.
13. Karklinsky M. and **Morin E.** (2006) Spatial Characteristics of Radar-derived Convective Rain Cells over Southern Israel. Meteorol. Z., 15(5), 513-520.
14. **Morin E.** and Gabella M. (2007) Radar-based Quantitative Precipitation Estimation over Mediterranean and dry Climate Regimes. J. Geophys. Res. 112, D20108, doi:10.1029/2006JD008206.
15. **Morin E.**, Harats N., Jacoby Y., Arbel S., Getker M., Arazi A., Grodek T., Ziv B. and Dayan U. (2007) Studying the Extremes: Hydrometeorological Investigation of a Flood-causing Rainstorm over Israel. Adv. Geosci., 12, 107–114.
16. **Morin E.** Jacoby Y., Navon S., Bet-Halachmi E. (2009) Towards Flash Flood Prediction in the Dry Dead Sea Region Utilizing Radar Rainfall Information. Adv. Water Resour*.* 32, 1066-1076.
17. **Morin E.**, Grodek T., Dahan O., Benito G., Kulls C., Jacoby Y., Van Langenhove G., Seely M., and Enzel Y. (2009) Flood Routing and Alluvial Aquifer Recharge Along the Ephemeral Arid Kuiseb River, Namibia. J. Hydrol., 368, 262-275.
18. Bahat Y., Grodek T., Lekach J., and **Morin E.** (2009) Rainfall-runoff Modeling in a Small Hyper-arid Catchment. J. Hydrol., 373, 204-217.
19. Kurtzman D., Navon S. and **Morin E.** (2009) Improving interpolation of daily precipitation for hydrologic modeling: spatial patterns of preferred interpolators. Hydrol. Process., DOI: 10.1002/hyp.7442.
20. Yair Y., Lynn B., Price C., Kotroni V., Lagouvardos K., **Morin E.**, Mugnai A. and Llasat M. C. (2010) Predicting Lightning Density in Mediterranean Storms Based on the WRF Model Dynamic and Microphysical Fields. J. Geophys. Res., 115, D04205, doi:10.1029/2008JD010868.
21. Gerardo B., Rohde R., Seely M., Kulls C., Dahan O., Enzel Y., Todd S., Botero B., **Morin E.**, Grodek T. and Roberts C. (2010) Management of Alluvial Aquifers in Two Southern African Ephemeral Rivers: Implications for IWRM Water Resour. Manage., 24, 641–667, DOI 10.1007/s11269-009-9463-9.
22. Sheffer N. A., Dafny E., Gvirtzman H., Navon S., Frumkin A. and **Morin E.** (2010) The Hydrometeorological DReAM (Daily Recharge Assessment Model) for the Western Mountain Aquifer (WMA), Israel. Water Resour. Res., VOL. 46, W05510, doi: 10.1029/2008WR007607.
23. Rozalis S., **Morin E.**, Yair Y., and Price C. (2010) Flash flood prediction using an uncalibrated hydrological model and radar rainfall data in a Mediterranean watershed under changing hydrological conditions. J. Hydrol., 394, 245–255.
24. Gabella M., **Morin E.** and Notarpietro R. (2011) Using TRMM Spaceborne Radar as a Reference for Compensating Ground-based Radar Range Degradation: Methodology Verification Based on Rain Gauges in Israel. J. Geophys. Res., 116, D02114, doi:10.1029/2010JD014496.
25. Yakir H. and **Morin E.** (2011) Hydrologic response of a semi-arid watershed to spatial and temporal characteristics of convective rain cells. Hydrol. Earth Syst. Sci., 15, 393–404, doi:10.5194/hess-15-393-2011.
26. Sheffer N. A., Cohen M., **Morin E.**, Grodek T., Gimburg A., Magal E., Gvirtzman H., Nied M., Isele D., and Frumkin A. (2011) Integrated Cave Drip Monitoring for Epikarst Recharge Estimation in a Dry Mediterranean Area, Sif Cave – Israel, Hydrol. Process., 25(18), 2837-2845, DOI: 10.1002/hyp.8046.
27. Price C, Yair Y., Mugnai A., Lagouvardos K., Llasat M. C., Michaelides S., Dayan U., Dietrich S., Galanti E., Garrote L., Harats N., Katsanos D., Kohn M., Kotroni V., Llasat-Botija M., Lynn B., Mediero L., **Morin E.**, Nicolaides K., Rozalis S., Savvidou K., and Ziv B. (2011) The FLASH Project: Using Lightning Data to Better Understand and Predict Flash Floods, Environmental Science & Policy, 14, 898-911.
28. **Morin E.** (2011) To know what we cannot know: Global mapping of minimal detectable trends in annual precipitation. Water Resour. Res., 47, W07505, doi:10.1029/2010WR009798.
29. Price C., Yair Y., Mugnai A., Lagouvardos K., Llasat M. C., Michaelides S., Dayan U., Dietrich S., Galanti E., Garrote L., Harats N., Katsanos D., Kohn M., Kotroni V., Llasat-Botija M., Lynn B., Mediero L., **Morin E.**, Nicolaides K., Rozalis S., Savvidou K., and Ziv B. (2011) Using Lightning Data to Better Understand and Predict Flash Floods in the Mediterranean, Surv. Geophys. 32, 733–751, doi:10.1007/s10712-011-9146-y.
30. Shohami D., Dayan U. and **Morin E.** (2011) Warming and drying of the eastern Mediterranean: Additional evidence from trend analysis, J. Geophys. Res., 116, D22101, doi:10.1029/2011JD016004.
31. **Morin E.** and Yakir H. (2012) The flooding potential of convective rain cells, IAHS Publ. no. 351.
32. Peleg N., **Morin E.**, Gvirtzman H. and Enzel Y. (2012) Rainfall, spring discharge and past human occupancy in the Eastern Mediterranean, Climatic Change, DOI 10.1007/s10584-011-0232-4.
33. Grodek T., Jacoby Y., **Morin E.** and Katz O. (2012) Effectiveness of exceptional rainstorms on a small Mediterranean basin, Geomorphology, 159–160, 156-168, doi:10.1016/j.geomorph.2012.03.016.
34. Tarolli P., Borga M., **Morin E.** and Delrieu G. (2012) Analysis of flash flood regimes in the North-Western and South-Eastern Mediterranean regions, Nat. Hazard Earth Sys., 12(5), 1255-1265, doi: 10.5194/nhess-12-1255-2012.
35. Flaounas E., Drobinski P., Borga M., Calvet J. C., Delrieu G., **Morin E.**, Tartari G. and Toffolon R. (2012) Assessment of gridded observations used for climate model validation in the Mediterranean region: the HyMeX and MED-CORDEX framework, Environ. Res. Lett., 7, 024017, doi:10.1088/1748-9326/7/2/024017.
36. Peleg N. and **Morin E.** (2012) Convective rain cells: Radar-derived spatio-temporal characteristics and synoptic patterns over the Eastern Mediterranean. J. Geophys. Res., 117, D15116, doi:10.1029/2011JD017353.
37. Gabella M., **Morin E.**, Notarpietro R., and Michaelides S. (2013) Winter precipitation fields in the Southeastern Mediterranean area as seen by the Ku-band spaceborne weather radar and two C-band ground-based radars, Atmos. Res., 119, 120-130, doi: 10.1016/j.atmosres.2011.06.001.
38. Shamir E., Ben-Moshe L., Ronen A., Grodek T., Enzel Y., Georgakakos K. P., and **Morin E.** (2013) Geomorphology-Based Index for detecting minimal flood stages in arid alluvial streams, Hydrol. Earth Syst. Sci., 17, 1021–1034, doi:10.5194/hess-17-1021-2013.
39. Peleg N., Ben-Asher M., and **Morin E.** (2013) Radar subpixel-scale rainfall variability and uncertainty: lessons learned from observations of a dense rain-gauge network, Hydrol. Earth Syst. Sci., 17, 2195–2208, doi:10.5194/hess-17-2195-2013.
40. **Morin E.** and Yakir H. (2014) Hydrological impact and potential flooding of convective rain cells in a semi-arid environment, Hydrological Sciences Journal, DOI: 10.1080/02626667.2013.841315.
41. Karran D., Adamowski, J. F. and **Morin E.** (2014) Multi-step streamflow forecasting using data-driven non-linear methods in contrasting climate regimes, J. Hydroinformatics, 16(3), 671-689, doi: 10.2166/hydro.2013.042
42. Rinat Y., Matmon A., Arnold M., Aumaitre G., Bourles D., Keddadouche K., Porat N., **Morin E.**, Finkel R. C. (2014) Holocene rockfalls in the southern Negev Desert, Israel and their relation to Dead Sea fault earthquakes. Quaternary Res., 81(2), 260-273, doi: 10.1016/j.yqres.2013.12.008.
43. Peleg N, and **Morin E.** (2014) Stochastic convective rain-field simulation using a high-resolution synoptically conditioned weather generator (HiReS-WG). Water Res. Res. doi: 10.1002/2013wr014836.
44. Peleg N, Bartov M., and **Morin E.** (2015) CMIP5-predicted Climate Shifts over the East Mediterranean: Implications for the Transition Region between Mediterranean and Semi-arid Climates. Inter. J. Clim., 35(8), doi: 10.1002/joc.4114.
45. Saaroni H., Ziv B., Lempert J., Gazit Y, and **Morin E.** (2015) Prolonged dry spells in the Levant region: climatologic-synoptic analysis. Inter. J. Clim., 35(9), 2223-2236, doi: 10.1002/joc.4143.
46. Peleg N., Shamir E., Georgakakos K. P., and **Morin E.** (2015) A framework for assessing hydrological regime sensitivity to climate change in a convective rainfall environment: a case study of two medium-sized eastern Mediterranean catchments, Israel. Hydrol. Earth Syst. Sci., 19, 567–581 doi:10.5194/hess-19-567-2015.
47. Seo D. J., Habib E., Andrieu H., and **Morin E.** (2015) Hydrologic applications of weather radar., J. Hydrol., 531, 231-233, doi: 10.1016/j.jhydro1.2015.11.010
48. Marra F. and **Morin E.** (2015) Use of radar QPE for the derivation of Intensity–Duration–Frequency curves in a range of climatic regimes. J. Hydrol., 531, 427-440, doi: 10.1016/j.jhydrol.2015.08.064
49. Zidon R., Tsueda H., **Morin E.**, and Morin S. (2016) Projecting pest population dynamics under global warming: the combined effect of inter- and intra-annual variations. Ecological Applications, http://dx.doi.org/10.1890/15-1045.1, in press.
50. Kottmeier C., Agnon A., Al-Halbouni D., Alpert P., Corsmeier U., Dahm T., Eshel A., Geyer S., Haas M., Holohan E., Kalthoff N., Kishcha P., Krawczyk C., Lati J., Laronne J. B., Lott F., Mallast U., Merz R., Metzger J., Mohsen A., **Morin E.**, Nied M., Rödiger T., Salameh E., Sawarieh A., Shannak B., Siebert C., and Weber M. (2016) New perspectives on interdisciplinary earth science at the Dead Sea: the DESERVE project, Science of the Total Environment, 544, 1045-1058, doi: 10.1016/j.scitotenv.2015.12.003.
51. Drobinski P., Da Silva N., Panthou G., Bastin S., Muller C., Ahrens B., Borga M., Conte D., Fosser G., Giorgi F., Guttler I., Kotroni V., Li L., **Morin E.**, Onol B., Quintana-Segui P., Romera R., Zsolt Torma C. (2016) Scaling precipitation extremes with temperature in the Mediterranean: past climate assessment and projection in anthropogenic scenarios. Clim. Dyn., doi: 10.1007/s00382-016-3083-x. in press.
52. Seo D. J., Habib E., Andrieu H. and **Morin E.** (2016) Hydrologic applications of weather radar, J. Hydrol., 531, 231-233, doi: 10.1016/j.jhydro1.2015.11.010.
53. Ziv B., Harats N., **Morin E.**, Yair Y. and Dayan U. (2016) Can severe rain events over the Mediterranean region be detected through simple numerical indices? Nat Hazards, DOI 10.1007/s11069-016-2385-y

**Chapters in books**

1. Borga M. and **Morin E.** (2014) Characteristics of Flash Flood Regimes in the Mediterranean Region, In: Diodato N. and Bellocchi G. (Editors) Storminess and Environmental Change. Advances in Natural and Technological Hazards Research, Vol. 39, Springer Netherlands, 65-76.