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Home address: Asirey Zion 25/30 Petach Tikva

Date and place of birth: 4/2/1948, Israel

Military service: Meteorology Officer

Status: Married + 3

## Education

Period of study	Institution & department	Degree	Subject	Date Awarded
1974-1978	Tel Aviv University, Israel, Department of Physics	Bachelor of Science	Physics	1978
1983-1986	Tel Aviv University, Department of Geophysics and Planetary Sciences	Master of Science	Atmospheric Sciences	May 1986
1989-1994	Tel Aviv University, Department of Geophysics and Planetary Sciences	Ph.D.	Atmospheric Dynamics	May 1995

Title of Master's Thesis "The physical mechanism of the Saharan Sharav Cyclone through observations and analytical model"

Title of Doctoral Dissertation "Rotation of extra-tropical binary cyclones"

Names of Supervisor in both Professor Pinhas Alpert

## Further Studies

1968 Israeli Meteorological Service, Weather Forecasting. Diploma: Weather forecaster.

1992 Cambridge University, Cambridge, U.K., a summer school in "Geophysical and Environmental Fluid Dynamics".

1995-1996 The Hebrew University of Jerusalem, Inst. of Earth Sciences, Post-Doc. Post doctoral project: Divergence patterns in time-varying jet streams. Supervisor: Prof. N. Paldor.

**fields of interest:**

Synoptic Meteorology; Climate, Climate change; Dynamic Meteorology, Synoptic Meteorology (focus: Mediterranean Cyclones)

**Academic and Professional Experience****Academic Experience**

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|-----------------------|--|
| 1984 - today          | Tel Aviv University, Continuous teaching of a course on Synoptic Meteorology (now called "dynamics of Synoptic Systems") in the department of Geophysics             |
| 1992-1996 & 2001-2015 | The Open University of Israel, lecturer of "Introduction to Meteorology" in the department of Natural and Life Sciences  |
| 1995 - 2019           | Tel Aviv University, lecturer of "Applied Meteorology" in the department of Geophysics, later in the Department of Geography   |
| 1996 - 2007           | The Hebrew University of Jerusalem, lecturer of courses "Weather Systems of the Mid Latitudes" and "Analysis of Synoptic Systems" in the Institute of Earth Sciences |
| 1990- 2015            | Academic organizer of courses in Meteorology in the Open University of Israel  |
| 1990- 2015            | Academic organizer of courses in elementary physics in the Open University of Israel   |

**Professional Experience**

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|-----------|--|
| 1969-1989 | Senior weather forecaster in the Israeli Air Force   |
| 1985-1989 | Manager of the first Meteorological Satellite Receiving and Processing Center in Israel  |
| 2002-2003 | Forecaster of the MEIDEX project (of Tel-Aviv University), in the framework of the "Freestar" mission of Columbia STS-107 flight |
| 2007-2012 | Head of the Physics section in the department of natural science, the Open University of Israel                                  |

**Other Teaching Experience**

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|------------|---|
| 1995       | lecturer in an international seminar on "Agricultural Weather Forecasting", Bangkok, Thailand |
| 1995- 1997 | Lecturer in Lewinsky Seminar for teachers in Elementary Physics and Climatology               |

## Professional Volunteering Activities

- 1994-1995 Member in a governmental committee for investigation of the functioning of the National Forecasting Center of the Israeli Meteorological Service
- 1995-2005 Advisor in the Israeli Meteorological Service
- 1995-today Referee in The Bi-National Sciences Foundation (BSF) of proposals in Atmospheric studies
- 2000 Scientific advisor for the climatologic section in the book: "Israel Water Resources", H. Gvirtzman
- 2002-today Referee in the Israeli Sciences Foundation (ISF) of proposals in Atmospheric studies
- 2002-today Referee of papers in atmospheric studies for the journals: "*Quarterly Journal of the Royal Meteorological Society*". "*Climate Dynamics*". "*Climatic Change*", "*International Journal of climatology*", "*Israel Journal of Earth Sciences*", "*Natural Hazard*" and "*Advances in Geophysics*"
- 2010-2020 A member of the steering committee of 'rain enhancement experiment' – the water authorities

## Active Participation in Scientific Meetings

European Geosciences Sciences (EGS) meeting, Wiesbaden, Germany. 3 -7 May 1993

International Symposium on Life Cycles of Extratropical cyclones", Bergen, Norway, 27 June - 1 July 1994

Symposium of Hazardous weather in the Mediterranean, Palma de Mallorca, Spain, April 1997

The 16th Conference on Weather Analysis and Forecasting, Phoenix, Arizona, USA, January 1998

The Pre-Regional Conference of the Commission on Climatology "Climate and Environmental Changes", Evora, Portugal, August 1998

The EGS2000: XXV General Assembly, Nice, France, April 2000

Fourth Symposium on the Urban Environment of the American Meteorological Society, Norfolk, VA, USA 20 - 24 May 2002

The sixth Hellenic Conference in Meteorology, Climatology and Atmospheric Physics, Ioanina, Greece, September 25 - 28, 2002

EGS-AGU-EUG Joint Assembly, Nice, France, 6 – 11 April 2003

ESF MedClivar Workshop on 'Mediterranean climate variability and predictability' (MedCLIVAR) organized by the European Science Foundation and ENEA, Rome, Italy, 16 – 19 May 2004

European Geosciences Union (EGU) Joint Assembly, Vienna, Austria, 24 – 20 April 2005

International Conference of the Israel Society for Ecology and Environmental Quality Sciences (ISEEQS), Rehovot, Israel, Weizmann Institute of Science and the Hebrew University of Jerusalem, 30 May – 1 June 2005

Workshop on Climate Variability and Extremes During the Past 100 Years, Gwatt near Thun, Switzerland, 24 – 26 July 2006

The sixth Annual Meeting of the EMS/sixth ECAC, Ljubljana, Slovenia, 4 - 8 September 2006

The first MedCLIVAR Workshop on Reconstruction of Past Mediterranean Climate Carmona, Spain, 9 - 11 November 2006

PLINIUS 8 conference by the European Geosciences Union (EGU) on Mediterranean Storms and Extreme Events in an Era of Climate Change, Dead Sea, Israel, 17 – 20 October 2006

PLINIUS 9 Conference of the Natural Hazards group of the European GeoSciences Union, Varenna, Italy, 10 – 13 September 2007

The second ESF MedCLIVAR Workshop on "Connections between Mediterranean and global climate variability" Toulon, France, 8 – 10 October 2007

PLINIUS 11 Conference of the Natural Hazards group of the European GeoSciences Union, Barcelona, Spain, 7 – 9 September 2009

ESF workshop on Climate and Health, Paphos, Cyprus, 19 – 21 October 2009

International Geographical Union and the commission of Climatology (CoC), IGU/UGI regional conference, Tel Aviv, Israel, 12 – 16 July 2010

European Geosciences Union (EGU) Joint Assembly, Vienna, Austria, 3 – 8 April 2011

PLINIUS 13 conference by the European Geosciences Union, Savona, Italy , 7 – 9 September 2011

European Geosciences Union (EGU) Joint Assembly, Vienna, Austria, 22 – 27 April, 2012

International Geographical Congress (IGU) and the Commission of Climatology (CoC), Cologne, Germany 26 – 30 August 2012

European Geosciences Union (EGU) Joint Assembly, Vienna, Austria, 7 – 12 April 2013

MedCLIVAR international Conference: "Understanding climate evolution and effects on environment and societies in the old world region", Ankara, Turkey, 22 - 25 June 2014

International Geographical Congress (IGU) and the Commission of Climatology (CoC), Krakow, Poland, 18 – 22 August 2014

MENA International Workshop on Water in the Middle East and North Africa, Sde Boker, Israel, 22 Nay 2016

European Geosciences Union (EGU) General Assembly, Vienna, Austria 17-22 April 2016

European Geosciences Union (EGU) Joint Assembly, Vienna, Austria, 8 – 13 April 2018

European Meteorological Society (EMS), Copenhagen, Denmark 9 – 13 September 2019

European COST - Mediterranean Cyclones: Dynamics, Impact and Prediction at Weather and Climate Scales, Weizmann Institute, Israel, 3 January 2022

## Academic and Professional Awards

Years	Foundation	Title	Sum	Other Pls
2000 - 2002	The International Arid Lands Consortium (IALC) by the USDA Forest Service and Cooperative State Research, Education and Extension Service. Proj #OOR-21	Structure and Dynamics of Rainstorms Inducing Floods in the Negev	68 K\$	Uri Dayan

Years	Foundation	Title	Sum	Other PIs
2002-2005	Israel Science Foundation (ISF), grant no. 828/02	The summer circulations over the Middle East: governing factors, tele-connections with remote systems and climatic trends	90 K\$	Hadas Saaroni & Pinhas Alpert
2003-2006	The Open University of Israel Research Authority	Tropical plumes over eastern North Africa	45 KNIS	Nathan Paldor
2006-2009	Israel Science Foundation (ISF) Grant No. 764/06	The role of the synoptic systems in climatic variability and long term trends over the Eastern Mediterranean	55 K\$	Hadas Saaroni & Pinhas Alpert
2008-2007	The Israeli Ministry of Environmental Protection, grant no. 6-801	Relationships between synoptic and meso-scale conditions and NO <sub>x</sub> concentrations in Tel-Aviv – development of a statistical model as a tool for improving the forecasting and warning	105 KNIS	Hadas Saaroni
2009-2010	The Israeli Ministry of Environmental Protection, grant no. 8-810	Temperature, heat-stress and rainfall fluctuations and trends in Israel during the last 30 years: is it an evidence for climatic change? Climatological-synoptic study	179 KNIS	Hadas Saaroni & Pinhas Alpert
2009-2010	The Open University of Israel Research Authority	Projected Future Synoptic Regimes in the Mediterranean Basin and their Impact on the Region's Hydro-climate	60 KNIS	Yochanan Kushnir
2010-2011	Keren Kayemet Le'Israel (JNF) - Grant No. 1440-16-4-07	Fluctuations in the Negev rainfall during the last 50 years - is it an evidence for climatic change? Climatological-synoptic study	56 KNIS	Hadas Saaroni
2010-2013	Israel Science Foundation (ISF) - Grant No. 597/13	Mediterranean Cyclones, synoptic analysis of their inner structure and its linkage to their evolution	120 K\$	Hadas Saaroni & Pinhas Alpert
2013 - 2016	Israel Science Foundation (ISF) - Grant No. 597/13	Synoptic-climatic study of evolution scenarios of drought events over the Levant	120 K\$	Hadas Saaroni
2017-2020	Israel Science Foundation (ISF) – Grant No. 1123/17	Active Red Sea Trough Automated Identification Method: Application for	240 K\$	Hadas Saaroni &

Years	Foundation	Title	Sum	Other PIs
		climatologic-dynamic analysis and for future change through climate models		Pinhas Alpert
2020-2023	Israel Science Foundation (ISF) – Grant No. 2253/20	New 4-D automatic classification of rain-producing synoptic systems and its application for understanding the mechanism and future projection of the rain regime in Israel	480 KNIS	Hadas Saaroni

## Students Mentored

### *PhD Graduated*

Noam Halfon, in 2008. "Spatial patterns of precipitation in Israel and their synoptic characteristics" (in collaboration with Prof H Kutiel, Haifa University)

Zvi Harpaz, in 2010. "The mechanism of the Israeli summer – the connections between the Persian trough and the Monsoon system" (in collaboration with Prof. H Saaroni, Tel Aviv University, Israel)

Meital Romem, in 2010. "Regime of Mediterranean cyclones: distribution, variability and teleconnections" (in collaboration with Prof. H Saaroni, Tel Aviv University of Israel)

Amit Savir, in 2014. "Heat stress in Israel: downscaling synoptic data to local conditions as a tool for operative forecasting and future climate prediction" (in collaboration with Prof. H Saaroni, Tel Aviv University of Israel)

### *MSc Graduated*

Ron Kahana, in 1999. "Synoptic hydro-climatology of major floods in the Negev and Arava, Southern Israel" (in collaboration with Prof Yehouda Enzel, The Hebrew University in Jerusalem)

Shira Rubin, in 2006. "Characterizing tropical plumes over eastern North Africa that transport moisture to the Eastern Mediterranean and Israel" (in collaboration with Prof. Nathan Paldor, The Hebrew University in Jerusalem)

Gil Sherman, in 2014. "Future Cyclonic Activity over Europe and the Mediterranean Based on Ensemble of Climate Models" (In collaboration with Prof. Pinhas Alpert, Tel Aviv University, Israel)

Ran Shimmer, since 2018, not graduated yet. "Measures for estimating and predicting the activity of the Red Sea Trough" (In collaboration with Prof. H Saaroni and Prof. P Alpert, Tel Aviv University)

### *MA Graduated*

Amit Savir, in 2003. "Correlation between synoptic parameters of the Cyprus cyclone in the eastern Mediterranean and the daily precipitation in Israel" (in collaboration with Dr. H Saaroni, Tel Aviv University)

Eitan Mazze, in 2004. "The summer sea breeze in Eilat – climatological-synoptical study" (in collaboration with Dr. H Saaroni, Tel Aviv University)

Meital Romem, in 2005. "Air masses movement in frontal cyclones – A conceptual model for the Mediterranean Basin" (in collaboration with Prof. H Saaroni, Tel Aviv University)

Eran Beja, in 2006. "Synoptic study of extreme summer events in the Eastern Mediterranean and their long-term trends" (in collaboration with Prof. H Saaroni, Tel Aviv University)

Haggi Roth, in 2007. "Meteorological characteristics of wet and dry periods over the Eastern Mediterranean and Israel" (in collaboration with Prof Uri Dayan, The Hebrew University in Jerusalem)

Noam Harats, in 2009. "Synoptic Indices as Indicators for Intense Lightning and Rain" (in collaboration with Prof. Uri Dayan, The Hebrew University in Jerusalem)

Naama Eisenbruch, in 2009. "Long-term changes in the minimum and maximum temperatures in Beer Sheba compared to the surrounding open area and its relation with trends in the synoptic systems occurrence" (in collaboration with Dr. H Saaroni, Tel Aviv University)

Sigalit Shalev, in 2012. "The contribution of lightning to NOx and Ozone concentrations in Israel" (in collaboration with Prof. Y. Yair from the Open University of Israel and Prof. H Saaroni, Tel Aviv University)

Roe Pargament, in 2012. "Inter-annual variations and long-term trend of Israel precipitation along the last 35 years: a synoptic-climatological study" (In collaboration with Prof. H Saaroni, Tel Aviv University)

Adi Etkin, in 2019. "Examination and identification of multi-modality during the rainy season in Israel" (In collaboration with Prof. H Saaroni, Tel Aviv University)

Miri Kupermintz, in 2019. "The impact of climate change on the growing of deciduous fruit trees 1950-2016 as a basis for evaluation of their future potential" (In collaboration with Prof. H Saaroni, Tel Aviv University)

#### *Post-doctoral researcher*

Zvi Harpaz, during 2011 - 2016, "Mediterranean Cyclones, analysis of their inner structure and its linkage to their evolution" (in collaboration with Dr. H Saaroni, Tel Aviv University of Israel)

#### Membership in Professional Societies

1985-2018	Membership in the Israeli Meteorological Society (IMS)
1988-1998, 2002-2009 & 2012-2016	Membership in the IMS Council
1990-2001	Member of the Editorial Board, IMS journal
1995-2001	Chief Editor of the IMS journal
1998-2002 & 2009-2012	Member of the ethic comity of the IMS

## Publications

**Number of citations: 5054, H-index 36, i10-index 69**

Ranked #18 in Israel among Top Scientists for 2022 by the [Research.com](https://research.com), a prominent academic platform for scientists, Ranking of Top 1000 Scientists in the area of Environmental Sciences. The full world ranking appears in: <https://research.com/scientists-rankings/environmental-sciences>

(Authors who were mentored by me are underlined)

1. Alpert P. and **B. Ziv**, 1989: The Sharav Cyclone: observations and some theoretical considerations, *J. Geoph. Res.*, 94, 18,495 - 18,514 (IF = 4.261, Q1)
2. Segal M., M. Mandel, P. Alpert, **B. Ziv**, R. Rabin and A. Zangvil, 1994: On potential dry-line effects along the Negev - conceptual evaluations, *Isr. Meteor. Res. Pap.* 5, 37-45 (IF = 0.195, Q3)
3. **Ziv B.** and P. Alpert, 1994: Isobaric to isentropic interpolation errors and implication to PV analysis, *J. App. Meteor.*, 33, 694-703 (IF = 2.923, Q2)
4. Egger, J., P. Alpert, A. Tafferter and **B. Ziv**, 1994: Numerical experiments on the genesis of Sharav Cyclones: idealized simulation, *Tellus*, 47A, 162-174 (IF = 2.000, Q2)
5. **Ziv B.** and P. Alpert, 1995: Rotation of binary cyclones -a data analysis study, *J. Atmos. Sci.*, 52, 1357-1369 (IF = 3.184, Q1)
6. Levin Z., Y. Yair and **B. Ziv**, 1996: Positive cloud-to-ground lightning flashes and wind shear in Tel Aviv thunderstorms, *Geoph. Res. Lett.*, 23-17, 22231-2234 (IF = 4.720, Q1)
7. Saaroni H., A. Bitan, P. Alpert and **B. Ziv**, 1996: Continental polar outbreaks into the Levant and eastern Mediterranean, *Int. J. Clim.*, 16, 1-17 (IF = 4.069, Q1)
8. Saaroni H., **B. Ziv**, A. Bitan and P. Alpert, 1998: Easterly wind storms over Israel, *Theor. App. Clim.*, 59, 61-77 (IF = 3.375, Q2)
9. **Ziv B.** and N. Paldor, 1999: The Divergence field associated with time dependent jet streams, *J. Atmos. Sci.*, 56 No. 12, 1843-1857 (IF = 3.184, Q1)
10. Saaroni H. and **B. Ziv**, 2000: Summer rain episodes in a Mediterranean climate - the case of Israel: climatological-dynamical analysis, *Int. J. Clim.*, 20, 191-209 (IF = 4.069, Q1)
11. **Ziv B.**, 2001: A subtropical rainstorm associated with a tropical plume over Africa and the Middle-East, *Theor. App. Clim.*, 69, 1/2, 91-102 (IF = 3.375, Q2)
12. Dayan U., B. Ziv, A. Margalit, E. Morin, D. Sharon, 2001: A severe autumn storm over the middle-east: synoptic and meso-scale convection analysis, *Theor. App. Clim.*, 69, 1/2, 103-122 (IF = 3.375, Q2)
13. Kahana R., **B. Ziv**, Y. Enzel, U. Dayan, 2002: Synoptic climatology of major floods In the Negev Desert, Israel, *Int. J. Clim.*, 22, 867-882 (IF = 4.069, Q1)
14. Yair Y., C. Price, Z. Levin, J. Joseph, P. Israelevitch, A. Devir, M. Moalem, **B. Ziv** and M. Asfur, 2003: Sprite observations from the space shuttle during the Mediterranean Israeli Dust Experiment (MEIDEX), *J. Atmos. Terr. Phys.*, 65, 635-642 (IF = 2.735, Q2)
15. Altaratz O., Z. Levin, Y. Yair and **B. Ziv**, 2003: Lightning Activity over Land and Sea on the Eastern Coast of the Mediterranean, *Mon. Wea. Rev.*, vol. 131, No. 9, 2060-2070 (IF = 3.735, Q1)



16. Saaroni H. and **B. Ziv**, 2003: The Impact of a Small Urban Lake on Heat Stress in a Mediterranean Coastal City: The Case of Tel Aviv, Israel, *Int. J. Biometeorology* - 47, 3, 156-165 (IF = 3.811, Q2)
17. Enzel Y., Ken-Tor, R., Sharon, D., Gvirtzman, D., Dayan, U., **Ziv, B.**, and Stein, M, 2003: Late Holocene Climates of the Near East Deduced from Dead Sea Level Variations and Regional Winter Rainfall, *Quaternary Res.*, 60: 263-273 (IF = 2.72, Q1)
18. Saaroni H., **B. Ziv**, J. Edelson and P. Alpert, 2003: Long-term Variations in Summer Temperatures over the Eastern Mediterranean, *Geoph. Res. Lett.* 30(18), 1946, doi:10.1029/2003GL017742 (IF = 4.720, Q1)
19. **Ziv B.** and P. Alpert, 2003: Rotation of mid-latitude binary cyclones: A potential vorticity approach, *Theor. App. Clim.*, 76 3-4, 189 – 202 (IF = 3.375, Q2)
20. **Ziv B.**, Y. Yair, K. Pressman and M. Fullekrug, 2004: Verification of the Aviation Center Global Forecasts of Meso-scale Convective Systems, 2003, *J. App. Meteor.*, Vol. 43, No. 5, 720-726 (IF = 2.923, Q2)
21. Alpert P., I. Osetinsky, **B. Ziv**, H. Shafir. 2004: Semi-objective classification for daily synoptic systems, Application to the Eastern Mediterranean climate change, *Int. J. Clim.*, 24, 1001-1011 (IF = 4.069, Q1)
22. Alpert P., I. Osetinsky, **B. Ziv** and H. Shafir. 2004: A new seasons definition based on the classified daily synoptic systems, an example for the Eastern Mediterranean, *Int. J. Clim.*, 24, 1013-1021 (IF = 4.069, Q1)
23. Kahana R., **B. Ziv**, U. Dayan and Y. Enzel, 2004: Atmospheric Predictors for Major Floods in the Negev Desert, Israel, *Int. J. Clim.*, 24, 1137-1147 (IF = 4.069, Q1)
24. Yair, Y., P. Israelevich, A. Devir, M. Moalem, C. Price, J. Joseph, Z. Levin, **B. Ziv** and A. Teller, 2004: New sprites observations from the space shuttle, *J. Geoph. Res.*, 109, D15201 (IF = 4.261, Q1)
25. Saaroni, H., E. Mazze and **B. Ziv**, 2004: Summer Sea Breeze, Under Suppressive Synoptic Forcing, in a Super-Arid City - Eilat, Israel, *Clim. Res.*, 26:213-220 (IF = 1.972, Q2)
26. **Ziv B.**, H. Saaroni and P. Alpert, 2004: The factors governing the summer regime of the eastern Mediterranean, *Int. J. Clim.*, 24, 1859-1871 (IF = 4.069, Q1)
27. Price C., E. Greenberg, Y. Yair, G. Saton, J. Bor, H. Fukunishi, M. Sato, P. Israelevitch, M. Moalem, A. Devir, Z. Levin, J. H. Joseph, I. Mayo, **B. Ziv** and A. Sternlieb, 2004: Ground-based detection of TLE-producing intense lightning during the MEIDEX mission on board the Space Shuttle Columbia, *Geoph. Res. Lett.*, Vol 31, L20107 (IF = 4.720, Q1)
28. **Ziv B.**, U. Dayan and D. Sharon, 2005: A mid-winter, tropical extreme flood-producing storm in southern Israel: Synoptic scale analysis, *Meteor. Atmos. Phys.*, 88(1-2): 53–63 (IF = 2.209, Q3)
29. Asaf, L., R. Nativ, M. A. Hassan, D. Shain, S. Geyer, **B. Ziv**, 2005: influence of small- and large-scale variables on the chemical and isotopic compositions of urban rainwater, as illustrated by a case study in Ashdod, Israel, *J. Geoph. Res.*, VOL. 100, D11307, doi: 10.1029/2004jD005414 (IF = 4.461, Q1)
30. Israelevich P. L., Y. Yair, A. D. Devir, J. H. Joseph, Z. Levin, I. Mayo, M. Moalem, C. Price, **B. Ziv**, A. Sternlieb, 2004: Transient airglow enhancements observed from the space shuttle Columbia during the MEIDEX sprite campaign

31. Yair Y., Price C., **Ziv, B.**, Israelevich P. L., Sentman D. D., São-Sabbas F. T., Devir A. D., Rodger C.J., Moalem M., Greenberg E., Yaron O., 2005: Space shuttle observation of an unusual transient atmospheric emission, *Geoph. Res. Lett.*, 32, L02801, doi:10.1029/2004GL021551 (IF = 4.720, Q1)
32. Alpert, P., Price, C., Krichak, S.O., **Ziv, B.**, Saaroni, H., Osetinsky, I., Barkan, J., and Kishcha, P., 2005: Tropical tele-connections to the Mediterranean climate and weather. *Advances in Geosciences*, 2, 157-160 (IF = 1.70, Q2)
33. **Ziv, B.**, H. Saaroni, A. Baharad, D. Yekutieli and P. Alpert, 2005: Indications for aggravation in summer heat conditions over the Mediterranean Basin, *Geoph. Res. Lett.*, Vol. 32, No. 12, L12706. doi:10.1029/2005GL022796 (IF = 4.720, Q1)
34. **B. Ziv**, U. Dayan, Y. Kushnir, C. Roth and Y. Enzel, 2006: Regional and Global Atmospheric Patterns Governing Rainfall in the Southern Levant, *Int. J. Clim.*, 26, 55-73 (IF = 4.069, Q1)
35. Alpert, P., Price, C., Krichak, S., **Ziv, B.**, Saaroni, H., Osetinsky, I., Barkan, J., Kishcha, P., 2006: Mediterranean climate and some tropical teleconnections. *Nuovo Cimento C*, 29, 1, 89-97 (IF = 0.269, Q4)
36. Y. Yair, R. Aviv, G. Ravid, R. Yaniv, **B. Ziv** and C. Price, 2006: Evidence for synchronicity of lightning activity in networks of spatially remote thunderstorms, *J. Atmos. Sol. Terr. Phys.* 68(12), 1401-1415 (IF = 1.735, Q2)
37. Rubin, S., N. Paldor, **B. Ziv**, 2007: On the dominance of changes in planetary angular momentum in large scale extra-tropical flows, *Geoph. Res. Lett.*, 34, L23814, doi:10.1029/2007GL031145 (IF = 4.720, Q1)
38. Erlich, C., N. Paldor and **B. Ziv**, 2007: Linear waves in a symmetric equatorial channel. *Q. J. Roy. Meteor. Soc.*, 133, 571-577, DOI: 10.1002/gi.44 (IF = 3.739, Q1)
39. Rubin, S., **B. Ziv** and N. Paldor, 2007: Tropical Plumes over eastern North Africa as a source of rain in the Middle East, *Mon. Wea. Rev.*, 35(12), 4135-4148 (IF = 3.735, Q1)
40. Ganot M., Y. Yair, C. Price, B. Ziv, Y. Sherez, E. Greenberg, A. Devir, R. Yaniv, 2007: First detection of transient luminous events associated with winter thunderstorms in the eastern Mediterranean, *Geoph. Res. Lett.*, 34, L12801, doi: 10.1029/2007GL029258 (IF = 4.720, Q1)
41. Romem M., **B. Ziv** and H. Saaroni, 2007: Scenarios in the development of Mediterranean cyclones, *Advances in Geosciences*, 12, 59-65 (IF = 1.70, Q2)
42. Morin, E., N. Harats, Y. Jacoby, S. Arbel, M. Getker, A. Arazi, T. Grodek, **B. Ziv**, and U. Dayan, 2007: Studying the extremes: hydrometeorological investigation of a flood-causing rainstorm over Israel, *Advances in GeoSciences*, 12, 107-114 (IF = 1.70, Q2)
43. Dayan, U., B. Ziv, T. Shoop and Y. Enzel, 2008: Suspended Dust over South-Eastern Mediterranean and its Relation to Atmospheric Circulations, *Int. J. Clim.*, DOI: 10.1002 (IF = 4.069, Q1)
44. Enzel, Y., R. Amit, U. Dayan, O. Crouvi, R. Kahana, D. Sharon, **B. Ziv**, 2008: The Climatic and Physiographic Controls of the Eastern Mediterranean over the Late Pleistocene Climates in the Southern Levant and its Neighboring Deserts, *Global and Planetary Change*, 60, 165-192 (IF = 5.114, Q1)
45. **Ziv, B.**, H. Saaroni, Y. Yair, M. Ganot, A. Baharad and D. Isaschari, 2009: Atmospheric factors governing winter thunderstorms in the coastal region of the Eastern Mediterranean, *Theor. App. Clim.*, 95, 301-310 (IF = 3.375, Q2)

46. Yair, Y., C. Price, M. Ganot, E. Greenberg, R. Yaniv, **B. Ziv**, Y. Sherez, A. Devir, J. Bór and G. Sători, 2009: Optical observations of transient luminous events associated with winter thunderstorms near the coast of Israel, *Atmos. Res.*, 91, 529–537 (IF = 5.369, Q1)
47. Raible, C. C., **B. Ziv**, H. Saaroni and M. Wild, 2009: Winter synoptic-scale variability over the Mediterranean Basin under future climate conditions as simulated by the ECHAM5, *Clim. Dynamics*, DOI 10.1007/s00382-009-0678-5 (IF = 4.709, Q1)
48. Vadislavsky, E., Y. Yair, C. Erlick, C. Price, E. Greenberg, R. Yaniv, **B. Ziv**, N. Reicher, A. Devir, 2009: Indication for circular organization of column sprite elements associated with Eastern Mediterranean winter thunderstorms, *J. Atmos. Sol. Terr. Phys.*, 71, 17-18, 1835-1839, doi:10.1016/j.jastp.2009.07.001 (IF = 1.735, Q2)
49. **Ziv, B.**, H. Saaroni, 2009: The contribution of moisture to heat stress in a period of global warming: the case of the Mediterranean, *Clim. Change*, 104(2), 305-315, DOI 10.1007/s10584-009-9710-3 (IF = 5.633, Q1)
50. Saaroni, H., T. Uman and **B. Ziv**, 2010: Does a synoptic classification indicate the NO<sub>x</sub> pollution potential? The case of the metropolitan area of Tel Aviv, Israel, *Water, Air, & Soil Pollution*, 207, no1-4, pp. 139-155 (IF = 2.574, Q2)
51. **Ziv, B.**, H. Saaroni, M. Romem, E. Heifetz, N. Harnik and A. Baharad, 2010: Analysis of Conveyor Belts in Winter Mediterranean Cyclones, *Theor. App. Clim.*, 99, 3-4, 441 – 455 (IF = 3.375, Q2)
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