

Dr. Isabella Osetinsky-Tzidaki

Main publications:

1. I. Osetinsky-Tzidaki, E. Fredj, 2023. **The 50- and 100-year Exceedance Probabilities as New and Convenient Statistics for a Frequency Analysis of Extreme Events: An Example of Extreme Precipitation in Israel**, *Water*, 15(1), [\[link\]](#).
2. I. Osetinsky-Tzidaki, E. Fredj. **Investigation of a Combined Effect of the Mediterranean Sea Breeze and Complex Topography on the Diurnal Wind Patterns for identifying the best locations for installing the wind turbines in Israel** (in preparation).
3. I. Osetinsky-Tzidaki, E. Fredj. **DYSSA – Dynamical Sub-daily Synoptic classification Approach: An example for Israel** (in preparation).
4. E. Fredj, I. Osetinsky-Tzidaki. **Global Precipitation Measurement Product Synoptic Based Evaluation: Application to Israel** (in preparation).
5. E. Ganor, I. Osetinsky, A. Stupp, and P. Alpert, 2010. **Increasing trend of African dust, over 49 years, in the eastern Mediterranean**, *J. Geophys. Res.*, 115, D07201.
6. E. Ganor, A. Stupp, I. Osetinsky and P. Alpert, 2010. **Synoptic Classification of lower troposphere profiles for Dust days**, *J. Geophys. Res.*, 115, D11201.
7. H. Saaroni, B. Ziv, I. Osetinsky and P. Alpert, 2010. **Factors governing the Inter-Annual Variation and the Long-term Trend of the 850-hPa Temperature over Israel**, *Q. J. R. Met. B.*, 136, 305-318.
8. I. Osetinsky and P. Alpert, 2006. **Calendaricities and multimodality in the Eastern Mediterranean cyclonic activity**, *Nat. Haz. and Earth System Sc.*, 6, 587-596.
9. P. Alpert, C. Price, S. O. Krichak, B. Ziv, H. Saaroni, I. Osetinsky, J. Barkan, 2005. **Tropical tele-connections to the Mediterranean climate and weather**, *Adv. in Geosc.*, 2, 157-160.
10. P. Alpert, 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.
11. P. Alpert, 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.

Main presentations:

1. I. Osetinsky-Tziaki, E. Fredj, 2026. **Multiyear Precipitation Prediction in the Levant Using the Natural-Cycles Approach** (*The 106th American Meteorol. Soc. Ann. Meeting*, Houston, TX, USA, Jan 25-29, 2025) [\[link\]](#).
2. I. Osetinsky-Tzidaki, E. Fredj, 2025. **Investigation of a Combined Effect of the Mediterranean Sea Breeze and Complex Topography on the Diurnal Wind Patterns** (*The 105th American Meteorol. Soc. Ann. Meeting*, New Orleans, LA, USA, Jan 12-16, 2025) [\[link\]](#).
3. I. Osetinsky-Tzidaki, E. Fredj, 2024. **Unraveling Eastern Mediterranean Daily Maximum / Minimum Temperature's Shifts Linked to Shifting Synoptic Systems' Regimes** (*The 104th American Meteorol. Soc. Ann. Meeting*, Baltimore, MD, USA, Jan 28 – Feb 1, 2024) [\[link\]](#).

4. **I. Osetinsky-Tzidaki, E. Fredj, 2023. DYSSA - Dynamical Sub-Daily Synoptic Classification Approach: An Example for Israel** (*The 103rd American Meteorol. Soc. Ann. Meeting (virtual)*, Jan 8-12, 2023).
5. **I. Osetinsky-Tzidaki, E. Fredj, 2022. The 50- and 100-yr Probabilities of Occurrence as the New and Convenient Measures for the Extreme Events Intensity: An Application to Extreme Precipitation in Israel**, *The 102nd American Meteorol. Soc. Ann. Meeting (virtual)*, Jan 23-27, 2022 (hereafter: *AMS 102nd*) [[link](#)].
6. **I. Osetinsky-Tzidaki, E. Fredj, 2022. GPM IMERG False Alarm Analysis for the Eastern Mediterranean: An Example from Israel**, *AMS 102nd* [[link](#)].
7. **E. Fredj, I. Osetinsky-Tzidaki, 2021. Zooming-in Evaluation of the GPM IMERG Final Run Product with Sub-daily Synoptic Classification for Mixed Climates: An Example of Israel**, *The 101st American Meteorological Society Annual Meeting (virtual)*, January 9-15, 2021 [[link](#)].
8. **I. Osetinsky-Tzidaki, D. Venger, 2020. Extreme Wind Analysis: A Comprehensive Algorithm**, *The 100th American Meteorological Society Annual Meeting*, Boston, MA, USA, January 12-16, 2020 (hereafter: *AMS 100th*) [[link](#)].
9. **I. Osetinsky-Tzidaki, 2020. Completing the Meteorological Archive Missing Data at the Daily and Sub-Daily Time Scales**, *AMS 100th* [[link](#)].
10. **I. Osetinsky-Tzidaki, 2020. Seasonal Precipitation Forecasting by Spectral Analysis of the Large Water Body Levels**, *AMS 100th* [[link](#)].
11. **N. Halfon, I. Osetinsky-Tzidaki, 2019. Continuous Mapping of the Standardized Precipitation Index**, *The 99th American Meteorological Society Annual Meeting*, Phoenix, AZ, January 2019 [[link](#)].
12. **I. Osetinsky-Tzidaki, 2016. Optimization of Probability Estimates for Multi-Station Precipitation Data**. *The 13th International Meeting on Statistical Climatology*, Canmore, Canada, June 2016 [[link](#)].
13. **I. Osetinsky, P. Alpert, 2004. Evaluation of GCM RCM by the classified synoptic systems approach**. *The 84th American Meteorological Society Annual Meeting*, Seattle, USA, January 2004 [[link](#)].

ResearchGate contributions:

1. 2018 - **NOTE: Extreme Wind Return Period estimation in the mixed climate** [[link](#)].
2. 2018 - **Two printing errors in Palutikof et al (1999) "A review of methods to calculate extreme wind"** [[link](#)].
3. 2017 - **Calculation of GEV in EXCEL** [[link](#)].

Book editing: Editing Ch. "Signal Processing" in "Matlab for Engineers" by A. Biran and M. Breiner, 1995.

Peer reviews: *International Journal of Climatology; Theoretical and Applied Climatology.*