

Dr. Beverly N. Goodman-Tchernov

Department of Marine Geosciences
Leon Charney School of Marine Sciences
University of Haifa, Mt. Carmel, Israel

Current Position: Senior Lecturer (equiv. to Assoc. Prof. w/tenure in USA system)
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<https://www.researchgate.net/profile/Beverly-Goodman-Tchernov>
Google Scholar: Beverly Goodman

Areas of Interest: *Coastal Change, Marine Geohazards (Tsunamis, Storms, Floods, etc.), Climate Challenges, Paleo proxy records, and Interdisciplinary Approaches*

Specialties: *Micropaleontology, Sedimentology, Marine and Coastal Geology and Archaeology; Public Outreach and Education, Scientific Diving*

Objectives and Goals: *My aim is to expand the understanding of coastal changes and the drivers behind them today and in the past; and with this knowledge contribute to good decision making for the future. To do this, I believe in an 'all hands on deck' approach wherein cross-disciplinary collaborations and multi-proxy approaches are standard. I am exploring opportunities to work in a strong, optimistic, and energetic framework that appreciates as well as encourages the value of diverse ideas, risky choices, and good science. I also embrace opportunities to further develop as a leader, team member; and desire new challenges and missions aimed at making this the best place for us all to live in.*

Personal Details

Citizenship: USA, Israel, Canadian Permanent Resident Holder (requires renewal)
Languages: English (fluent/mother tongue), Hebrew (Fluent Speaking/Reading, Moderate Writing), Multiple languages at Beginner level (Turkish, Arabic, Spanish)
Leisure: Freediving, photography, beach volleyball
Place of Birth: Milwaukee, Wisconsin

EDUCATION

General Studies (Junior College) William Rainey Harper College, Illinois, USA
General Studies, Honor Society, Junior College Transfer to UWisconsin-Madison. Grade point Average 3.9/4.0.
January 1992-May 1993

Bachelor of Arts (B.A. w/Distinction) University of Wisconsin-Madison, USA
Department of Anthropology
August 1993 - December 1995

Master of Arts (M.A.) The Pennsylvania State University, Pennsylvania, USA
Department of Anthropology
"Coastal Settlement Economies in the Context of Social Development"
August 1997 - May 1999

Doctor of Philosophy (Ph.D.) McMaster University, Hamilton, Ontario, Canada
Department of Geography and Geology
"Paleogeography of Liman Tepe, Turkey: A Multi-disciplinary Coastal Reconstruction Geoarchaeological Study"
September 2001 - May 2006

Post-doctoral Studies

Topic: *Paleotsunami deposits in Coastal and Offshore Sedimentary Sequences of E. Mediterranean and Northern Red Sea Gulf of Aqaba*
Interuniversity Institute for Marine Sciences-Eilat, Eilat ('IUI'. Red Sea), Israel

Co-hosting by University of Haifa, Department of Maritime Civilizations (February 2006-October 2007), Hebrew University of Jerusalem, Institute of Earth Sciences (October 2007-October 2009), and University of Haifa, Charney School of Marine Sciences (October 2009-October 2010)

ACADEMIC FACULTY POSITIONS

University of Haifa, Department of Marine Geosciences

Lecturer: October 2010-October 2017, Senior Lecturer (w/Tenure): November 2017-present

FORMAL ACADEMIC COMMITTEES AND ADMINISTRATIVE RESPONSIBILITIES

Interuniversity Institute for Marine Sciences-Eilat

2006-2009: Institute Development and Fundraising

University of Haifa, Department of Marine Geosciences

2011-2013: Departmental Seminar Coordinator

2011-2013, 2017-2019: Education Committee Member

2013-2018: Open House Coordinator

2019-2022: Department Chair

University of Haifa, School of Marine Sciences and University-at-Large

2017-2019: School Space and Equipment Committee Member

2022-present: Scientific Director: Azrieli Marine Geohazards and Environmental Climate Challenges HUB

McMaster University, Canada, School of Geography and Environmental Sciences

Adjunct Faculty: appointed 2018 (non-paying)

FUNDING and GRANT AWARDS

2010 - Caesarea Tsunami Sediments

- **Role:** Principal Investigator (PI)
- **Funded by:** Ministry of Infrastructure
- **Amount:** ₪34,971

2010-2013 - Tsunami Offshore Sediments

- **Role:** Principal Investigator (PI)
- **Funded by:** ISF
- **Amount:** \$225,000

2010 (2011) - Mayan Maritime Culture

- **Role:** Co-Principal Investigator (Co-PI)
- **Funded by:** National Oceanographic and Atmospheric Association (NOAA, USA)
- **Amount:** \$80,000 (Haifa \$15,000)
- **Lead PI:** Glover. J

2012-2013 - Grandes Maritime Geoarchaeological Research Project

- **Role:** Co-Investigator (CI)
- **Lead PI:** M. Xanthopoulou
- **Funded by:** WaittNG Institute Discovery Grants
- **Amount:** \$25,000, Haifa Share Field travel costs (\$5,000)

2011-2012 - Renewable Energies

- **Role:** Co-Investigator (CI)
- **PI:** TH Culhane
- **Funded by:** Blackstone Innovation Grant
- **Amount:** \$25,000, Field Costs

2014 - Turkey Paleotsunami

- **Role:** Principal Investigator (PI)
- **Funded by:** National Geographic Expeditions Council (NGEC)
- **Amount:** \$6,000

2014 - Eastern Mediterranean Tsunami Deposits:C14

- **Role:** Co-Investigator (CI)
- **Funded by:** NGEC
- **Amount:** \$6,000

2015-2018 - Flashfloods

- **Role:** Principal Investigator (PI)
- **Co-PI:** Hill.P
- **Funded by:** Schulich grant
- **Amount:** \$165,000 (Total), Your Share: \$135,000

2015 - Maritime Maya

- **Role:** Co-Principal Investigator (Co-PI) Glover, J. and Rissolo, D.
- **Funded by:** National Science Foundation
- **Amount:** \$250,000, Haifa Share \$15,000 (+Field costs and shipments)

2017-2020 - Enhancement of Physical Evidence for Tsunami Modeling

- **Role:** Principal Investigator (PI)
- **Co-PI's:** O. Katz, R. Weiss, B. Galanti
- **Funded by:** Ministry of Infrastructure
- **Amount:** ₪281,163

2017 - Microplastics in Haifa Bay

- **Role:** Principal Investigator (PI)
- **Funded by:** Asaf Shani Foundation
- **Amount:** ₪50,000

2018 - Maya Ancient Harbor

- **Role:** Principal Investigator (PI)
- **Funded by:** National Geographic
- **Amount:** \$25,000

2017-2019 - Pristine Micropaleo

- **Role:** Principal Investigator (PI)
- **Funded by:** National Geographic
- **Amount:** \$100,000

2020-2025 - Pristine Micropaleo

- **Role:** Principal Investigator (PI)
- **Funded by:** National Geographic
- **Amount:** \$400,000

ADDITIONAL FUNDING INFORMATION

Private Funding: \$12 million dollars for new climate initiative (Azrieli Foundation) Multiple private sources over career, approximately \$800,000.

Co-director of Caesarea Coastal Archaeological Project which has received funding via American School of Overseas Research and partner universities University of Virginia (Prof. TJ Smith) and University of North Carolina-Greenboro (Dr. A. Eger)

Pending Grants (Submitted 2023):

European Research Council: ERC-Synergy: 14 million Euro, Marine Geohazard Risk from Ancient Tsunami Evidence 'ERUPT'; With Vasif Sahoglu, Ankara University; Evangelia Kiriati, British School of Athens, and Pareskevi Nomikou, University of Athens.

NSF-BSF: Environmental , Heritage, and Archaeological Tools from Trace Metals around Metal Warplanes and Ships in Pacific (w/Woodshole, Calvin Mires and Kirstin Meyer Kaiser)

Israel Science Foundation (ISF): Early Holocene Sea Level Change in the Eastern Mediterranean
w/ Dr. Mor Kanari, Israel Oceanography and Limnology Research

SELECT HONORS AND AWARDS

Kavli Fellow, 2015, 2017, 2019, 2022: Israel Science Foundation and National Academy of Sciences (USA)

ARCH Alumni Award, 2011: McMaster University

Ocean Hero, 2011: National Oceanographic and Atmospheric Association (NOAA)

National Geographic, 2009: Induction into organization's 'Explorer' Program (Emerging Explorer Award originally, continued support and participation to present as 'Explorer')

Distinguished Alumni Award, 2009, William Rainey Harper, USA
Fulbright Student Fellow (PhD), 2004-2005, Fulbright Foundation

TEACHING

GRADUATE STUDENT SUPERVISION

MSc Students Matriculated as primary/non-primary supervisor: 12/6 (Total 18)

PhD Students Matriculated under my primary/non-primary supervisor: 5/3 (Total 8)

Post-doctoral Fellows: 7

Currently enrolled: MSc 3, PhD 3, Postdoc 2

ACADEMIC COURSES (*offered 2023-2024)

Marine Sedimentology (2011-2023)

- *Type:* Field/Lecture/Seminar/Workshop
- *Level:* BSc/MSc/PhD
- *Approximately 15 students per year*

Marine Micropaleontology (2012-18, 2023*)

- *Type:* Lecture/Seminar/Workshop/Lab
- *Level:* MSc/PhD
- *Currently 8*

Instructional Cruise (2012-2023*)

- *Type:* Workshop/Field Course
- *Level:* MSc/PhD
- *Approximately 8 students per year*

Caesarea Geoarchaeology (2013-2014)

- *Elective Field Course*
- *Type:* Workshop
- *Level:* MSc/PhD
Approximately 4 students per year

Scientific Writing (2015-2023*)

- *Type:* Workshop/Online Course
- *Level:* MSc/PhD
- *Currently 60 students per year*

Honors Program: Coastlines and People (2021)

- *Type:* Lecture/Seminar
- *Level:* BSc/BA
- *8 students*

AAUS SCIENTIFIC DIVING (2019-2023*)

- *Type:* Lecture/Seminar
- *Level:* BSc/BA
- *8 students*

Bloom Honors School Series (2022-2023*)

- *Workshop: Writing & Workshop: Speaking*
- *Type:* Workshop
- *Level:* Master's and PhD
20 students

Caesarea Coastal Archaeological Project (2011, 2022, 2023*)

- *Type:* Workshop/Field/Lab/Lecture
- *Level:* Undergrad, Master's and PhD
- *30 students*

PUBLICATIONS¹

1. Reinhardt, E. G., **Goodman, B. N.**, Boyce, J. I., Lopez, G., van Hengstum, P., Rink, W. J., Mart, Y., and Raban, A., 2006. "The Tsunami of 13 December A.D. 115 and the Destruction of Herod the Great's Harbor at Caesarea Maritima, Israel." *Geology*, 34(12), 1061-1065.
2. Boyce, J. I., Reinhardt, E. G., **Goodman, B. N.**, 2009. "Magnetic Detection of Ship Ballast Deposits and Anchorage Sites in King Herod's Roman Harbour, Caesarea Maritima, Israel." *Journal of Archaeological Science*, 36, 1516–1526.
3. **Goodman, B.**, Reinhardt, E., Dey, H., Boyce, J., Schwarcz, H., Sahoglu, V., Erkanal, H., and Artzy, M., 2008. "Evidence for Holocene Marine Transgression and Shoreline Progradation Due to Barrier Development in Iskele, Bay of Izmir, Turkey." *Journal of Coastal Research*, 245, 1269–1280.
4. **Goodman, B. N.**, Reinhardt, E. G., Dey, H. W., Boyce, J. I., Schwarcz, H. P., Sahoğlu, V., Erkanal, H., and Artzy, M., 2009. "Multi-proxy Geoarchaeological Study Redefines Understanding of the Paleocoastlines and Ancient Harbours of Liman Tepe (Iskele, Turkey)." *Terra Nova*, 21(2), 97–104.
5. **Goodman-Tchernov, B.N.**, Dey, H. W., Reinhardt, E. G., McCoy, F., and Mart, Y., 2009. "Tsunami Waves Generated by the Santorini Eruption Reached Eastern Mediterranean Shores." *Geology*, 37(10), 943–946.
6. Dey, H. W., **Goodman-Tchernov, B.**, 2010. "Mediterranean Tsunamis and the Port of Caesarea Maritima over the Longue Durée: A Geoarchaeological Perspective." *Journal of Roman Archaeology*, 23, 265–284.
7. Rubin-Blum, M., Antler, G., Turchyn, A. V., Tsadok, R., **Goodman-Tchernov, B.N.**, Shemesh, E., Austin, J. A., 2013. "Hydrocarbon-Related Microbial Processes in the Deep Sediments of the Eastern Mediterranean Levantine Basin." *FEMS Microbiology Ecology*, (December 27), 1–17.
8. Rubin-Blum, M., Shemesh, E., Tsadok R., **Goodman-Tchernov, B.**, Austin Jr. J.A., Coleman, D.F., Gruber D. and Tchernov, D., 2014. "Distribution of the *Lamelibranchia* sp. (Siboglinidae, Annelida) and Their Trophosome Endosymbiont Phylotypes in the Mediterranean Sea." *Marine Biology*, 161, 1229-1239.
9. Rubin-Blum, M., Antler, G. Shemesh, E., Tsadok R., **Goodman-Tchernov, B.**, Austin Jr. J.A., Coleman, D.F., and Tchernov, D., 2014. "First Evidence for the Presence of Iron Oxidizing Zetaproteobacteria at the Levantine Continental Margins." *PLoS One*, 9(3), 1-10.
10. Rubin-Blum, M., Shemesh, E., **Goodman-Tchernov, B.N.**, Coleman, D. F., Ben-Avraham, Z., Tchernov, D., 2014. "Cold Seep Biogenic Crust in the Levantine Basin Is Inhabited by Carbonate Burrowing *Phascolosoma turnerae*, a Sipunculid Hosting Distinctive Microbiota." *Deep Sea Research Part I-Oceanographic Research Papers*, 90, 17-26.

¹ (note: 1, 2, and last author indicate dominant contribution in the Israeli system; it is common custom to place student as first author and supervisor last, second author indicates major if not equal contribution, and is often an indicator of co-supervision or equal collaboration; remaining authors are placed in order of contribution, e.g. 3, 4, 5...)

11. Dey, H., Sharvit, J., **Goodman-Tchernov, B.** 2014. "Archaeological Evidence for the Tsunami of January 18, 749 AD: A Forgotten Chapter in the History of Early Islamic Qāysariyah (Caesarea Maritima, Israel)." *Journal of Roman Archaeology*, 28, 357-373.
12. Oron, S., Angel, D., **Goodman-Tchernov, B.**, Merkado, G., Kiflawi, M., Abramovich, S. 2014. "Benthic Foraminiferal Response to the Removal of Aquaculture Fish Cages in the Gulf of Aqaba-Eilat." *Marine Micropaleontology*, 107, 8-17.
13. Katz, T., Hinat, H., Eyal, G., Steiner, Z., Braun, Y., Shalev, S., **Goodman-Tchernov, B.N.**, 2015. "Desert Flash Floods Form Hyperpycnal Flows in the Coral-Rich Gulf of Aqaba, Red Sea." *Earth Planetary Sciences Letters*, 417, 87-98.
14. **Goodman-Tchernov, B.N.** and Austin Jr., J.A., 2015, "Deterioration of Israel's Caesarea Maritima's Ancient Harbor Linked to Repeated Tsunami Events Identified in Geophysical Mapping of Offshore Stratigraphy." *Journal of Archaeological Science: Reports*, 3, 444–454.
15. **Goodman-Tchernov, B.** and Katz, O. 2015. "Holocene-Era Submerged Notches along the Southern Levantine Coastline: Punctuated Sea Level Rise?" *Quaternary International*, 401, 17-27.
16. **Goodman-Tchernov, B.**, Katz, T., Shaked, Y., Qupty, N., Kanari, M., Niemi, T., Agnon, A., 2016. "Offshore Evidence for an Undocumented Tsunami Event in the 'Low Risk' Gulf of Aqaba-Eilat, Northern Red Sea." *Plos One*, 11.
17. Beddows, P.A., Glover, J.B., Rissolo, D., Carter, A.M., Jaijel, R., Smith, D.M., **Goodman-Tchernov, B.N.**, 2016. "The Proyecto Costa Escondida: Recent Interdisciplinary Research in Search of Freshwater Along the North Coast of Quintano Roo, Mexico." *Wiley Interdisciplinary Review: Water*, 3.5, 749-761.
18. Benjamin, J., Fontana, A., Rovere, A., Anzidei, M., Gehrels, R., Miko, S., **Goodman-Tchernov, B.N.**, Furlani, S., Inglis, R., Antonioli, F., Felja, I., Mourtzas, N., Meredith-Williams, M., Vacchi, M., Sivan, D., Galili, E., E. Kolaiti, 2017, "Late Quaternary Sea-Level Change and Early Human Societies in the Central and Eastern Mediterranean Basin: An Interdisciplinary Review." *Quaternary International*, 449, 29-57.
19. Tyulevena, N., Braun, Y., Katz, T., Suchkov, M., **B. Goodman-Tchernov**, 2017, "Multiproxy Analysis of Offshore Sediments from Jisr al Zarka, Israel Indicate Newly Identified Chalcolithic Tsunami Event." *Marine Geology*, 67-78.
20. López, G.I., Goodman-Tchernov, B.N., and Porat, N., 2018, "OSL Over-Dispersion: A Pilot Study for the Characterization of Extreme Events in the Shallow Marine Realm." *Sedimentary Geology*, 378, 35-51.
21. Jaijel, R., Kanari, M., Glover, J.B., Rissolo, D., Beddows, P.A., Ben-Avraham, Z., and **Goodman-Tchernov, B.**, 2018, "Shallow Geophysical Exploration at the Ancient Maritime Maya Site of Vista Alegre, Yucatan Mexico." *Journal of Archaeological Science: Reports*, 19, 53-63.
22. Jaijel, R., Glover, J.B., Rissolo, D., Beddows, P.A., Smith, D., Ben-Avraham, Z., and **Goodman-Tchernov, B.**, 2018, "Coastal Reconstruction of Vista Alegre, an Ancient Maritime Maya Settlement." *Palaeogeography, Palaeoclimatology, Palaeoecology*, 497, 25-36.

23. Goff, J.A., Austin, J.A., and **Goodman-Tchernov, B.**, 2018, "Estuarine Development and Early Holocene Transgression Across an Aeolianite Substrate, Caesarea, Central Israel." *Continental Shelf Research*, 158, 33-44.
24. Barkai, O., Katz, O., Mushkin, A., **Goodman-Tchernov, B.**, "Long-term Retreat Rates of Israel's Mediterranean Sea Cliffs Inferred from Reconstruction of Eroded Archeological Sites." *Geoarchaeology*, online July 24, 2017, 314-316.
25. Hoffman, N., Master, D., **Goodman-Tchernov, B.**, "Tsunami Inundation Identified in 4-5th Century BC Deposits at Tel Ashkelon, Israel." *Marine Geology*, 2018, 150-159.
26. Zirks, E., Krom, M.D., Zhu, D., Schmiedl, G., and **Goodman-Tchernov, B.**, 2019, "Evidence for the Presence of Oxygen-Depleted Sapropel Intermediate Water Across the Eastern Mediterranean During Sapropel S1." *ACS Earth and Space Chemistry*, 3(10), 2287-2297.
27. Mathalon, A., **Goodman-Tchernov, B.**, Hill, P., Kalman, A., and Katz, T., 2019, "Factors Influencing Flashflood Deposit Preservation in Shallow Marine Sediments of a Hyperarid Environment." *Marine Geology*, 411, 22-35.
28. Vött, A., Bruins, H., **Goodman-Tchernov, B.**, De Martini, P.M., Kelletat, D., Mastronuzzi, G., Reicherter, K., Röbbke, B.R., Scheffers, A., Willershäuser, T., Avramidis, P., Bellanova, P., Costa, P.J.M., Finkler, C., Hadler, H., Koster, B., Lario, J., Reinhardt, E., Mathes-Schmidt, M., Ntageretzi, K., Pantosti, D., Papanikolaou, I., Sansò, P., Scicchitano, G., Smedile, A., and Szczuciński, W., 2019, "Publicity Waves Based on Manipulated Geoscientific Data Suggesting Climatic Trigger for Majority of Tsunami Findings in the Mediterranean - Response to 'Tsunamis in the Geological Record: Making Waves with a Cautionary Tale from the Mediterranean' by Marriner et al." *Zeitschrift für Geomorphologie*, 62(Suppl. 2), 7-45.
29. Irish, J.L., Weiss, R., and **Goodman-Tchernov, B.**, "A Monte-Carlo Model for Caisson Overturning by Tsunamis." *Coastal Engineering Proceedings*, no. 36v.
30. Martinez, S., Lalzar, M., Shemesh, E., Einbinder, S., **Goodman-Tchernov, B.**, and Tchernov, D. 2020. "Effect of Different Derivatization Protocols on the Calculation of Trophic Position Using Amino Acids Compound-Specific Stable Isotopes." *Frontiers in Marine Science*, 7, 561-568.
31. Kanari, M., Niemi, T.M., Ben-Avraham, Z., Frieslander, U., Tibor, G., **Goodman-Tchernov, B.**, Wechsler, N., Abueladas, A., Al-Zoubi, A., Basson, U., and Marco, S., 2020. "Seismic potential of the Dead Sea Fault in the northern Gulf of Aqaba-Eilat: New evidence from liquefaction, seismic reflection, and paleoseismic data." *Tectonophysics*, vol. 793, 228596, p. 1-15.
32. Kalman, A., Katz, T., Hill, P., and **Goodman-Tchernov, B.**, 2020. "Droughts in the desert: Medieval Warm Period associated with coarse sediment layers in the Gulf of Aqaba-Eilat, Red Sea." *Sedimentology*, vol. 67, issue 6, p. 3152-3166.
33. Oron, S., Sadekov, A., Katz, T., and **Goodman-Tchernov, B.**, 2021. "Benthic foraminifera geochemistry as a monitoring tool for heavy metal and phosphorus pollution - A post fish-farm removal case study." *Marine Pollution Bulletin*, vol. 168, p. 112443.
34. Zirks, E., Krom, M., Schmiedl, G., Katz, T., Xiong, Y., Alcott, L.J., Poulton, S.W., and **Goodman-Tchernov, B.**, 2021. "Redox evolution and the development of oxygen

- minimum zones in the Eastern Mediterranean Levantine basin during the early Holocene." *Geochimica et Cosmochimica Acta*, vol. 297, p. 82-100.
35. Jaijel, R., **Goodman-Tchernov, B.**, Biton, E., Weinstein, Y., and Katz, T., 2021. "Optimizing a standard preparation procedure for grain size analysis of marine sediments by laser diffraction (MS-PT4SD: Marine sediments-pretreatment for size distribution)." *Deep Sea Research Part I: Oceanographic Research Papers*, 167, p.1-14, 103429.
 36. De Martini, P.M., Bruins, H.J., Feist, L., **Goodman-Tchernov, B.**, Hadler, H., Lario, J., Mastronuzzi, G., Obrocki, L., Pantosti, D., Paris, R., Reicherter, K., Smedile, A., and Vött, A., 2021. "The Mediterranean Sea and the Gulf of Cadiz as a natural laboratory for paleotsunami research: Recent advancements." *Earth-Science Reviews*, vol. 216, p.1-27, 103578.
 37. Glover, J., Rissoli, D., Beddows, P., Jaijel, R., Smith, D., and **Goodman-Tchernov, B.**, 2022. "The Proyecto Costa Escondida: Historical ecology and the study of past coastal landscapes in the Maya area." *The Journal of Island and Coastal Archaeology*, p. 1-20.
 38. Weiss, R., Irish, J., and **Goodman-Tchernov, B.**, 2022. "Boulder Dislodgement During Coastal Storms and Tsunamis: Insights From a New Ensemble Model." *Geochemistry, Geophysics, Geosystems* 23, p. 1-11, e2021GC010266.
 39. Kalman, A., **Goodman-Tchernov, B.**, Hill, P., Everhardt, C., Mathalon, A., and Katz, T., 2022. "Anthropogenic changes in waterways produce 'drought-like' layers in shelf sediments." *Elementa* 10:(1):p. 1-19, 00039.
 40. Riddick, N.L., Boyce, J.I., Krezoski, G.M., Şahoğlu, V., Erkanal, H., Tuğcu, I., Alkan, Y., Gabriel, J.J., Reinhardt, E.G., and **Goodman-Tchernov, B.**, 2022. "Palaeoshoreline reconstruction and underwater archaeological potential of Liman Tepe: A long-occupied coastal prehistoric settlement in western Anatolia, Turkey." *Quaternary Science Reviews*, vol. 276, p.1-20, 107293.
 41. Schattner, U., Kanari, M., **Goodman-Tchernov, B.**, de Mahiques, M.M., and Bernhardt, A., 2022. "Sedimentary response of the deep eastern Mediterranean basin to the north African desertification, sea level variation and regional tectonics." *Basin Research*, vol. 34, 2, p. 1-12, 662-687.
 42. Şahoğlu, V., Sterba, J.H., Katz, T., Çayır, Ü., Gündoğan, Ü., Tyuleneva, N., Tuğcu, İ., Bichler, M., Erkanal, H., and **Goodman-Tchernov, B.**, 2022. "Volcanic ash, victims, and tsunami debris from the Late Bronze Age Thera eruption discovered at Çeşme-Bağlararası (Turkey)." *PNAS*, vol. 119, no. 1, p. 1-8, e2114213118.
 43. Oron, S., Friedlander, A.M., Sala, E., and **Goodman-Tchernov, B.**, 2022. "Recent shallow water foraminifera from the Selvagens Islands (Northeast Atlantic) - Assemblage composition and biogeographic significance." *Estuarine, Coastal and Shelf Science*, p. 107671.
 44. Katz, R., Katsman, R., Kalman, A., **Goodman-Tchernov, B.**, 2022. "Evolution of sediment grain-size profiles on a sheltered, continental shelf in response to punctuated flood deposition." *Continental Shelf Research*, Volume 251, p. 1-11, e104868.
 45. Riddick, N.L., Boyce, J.I., Krezoski, G.M., Şahoğlu, V., Erkanal, H., Tuğcu, I., Alkan, Y., Reinhardt, E.G., and **Goodman-Tchernov, B.**, 2022. "Coastal palaeoenvironmental record of Late Bronze to Iron Age harbour development at Liman Tepe-Clazomenae, western Anatolia, Turkey, Turkey." *Marine Geology*, vol. 450, p. 1-15, e106842.

46. Everhardt IV, C.J. , Dey, H., 'Ad, U., Sharvit, J., Gendelman, P., Roskin, J., Robins, L., Jaijel, R., Barkai, O., and **Goodman-Tchernov, B.**, 2023. "Earthquake, Fire, and Water: Destruction sequence identified in an 8th century early Islamic harbor warehouse in Caesarea, Israel." *Geosciences* vol. 13, 4, p. 1-28.
47. Oron, S. , Akkaynak, D., **Goodman Tchernov, B. N.**, and Shaked, Y., 2023. "How Monster Storms Shape Fringing Reefs: Observations from the 2020 Middle East Cyclone." *Ecosphere* 14(7): p. 1-6, e4602.

ADDITIONAL PUBLICATIONS

Edited Books

- 1) Avner Raban, Michal Artzy, **Beverly Goodman**, and Zvi Galon, (eds). "The Harbor of Sebastos (Caesarea Maritima) in a Roman-Mediterranean context". *BAR International Series* 1930, 2009. 222p
- 2) Stabler, N., Lotan, T., Berman-Frank I, **Goodman Tchernov, B.** (eds), "Treasures of the Sea". Israel Association of Aquatic Sciences 2013 [in Hebrew] 341p.

Encyclopedia

- 3) **Goodman-Tchernov, B.N.**, 2016, Tsunamis. *Encyclopedia of Geoarchaeology*, editor P. Goldberg, Springer, p. 984-988.
- 4) **Goodman-Tchernov, B.N.**, 2023, Tsunamis. *Encyclopedia of Geoarchaeology*, 2nd edition, editors Allan S. Gilbert, Paul Goldberg, Rolfe Mandel and Vera Aldeias, *Earth Science Series*, Springer.

See appendix for reports, conference proceedings, etc.

MEDIA

Please see this link for detailed description of media activities ranging from printed news, digital, podcasts, documentaries, radio, and television internationally.

<https://sites.google.com/view/mgmlabhaifa/media>