

AARON YAIR

Publications (December 2012)

Books Edited

Bryan RB and Yair A (1982) Badland Geomorphology and Piping. Geobooks, Norwich, England (4 editions, held by 193 libraries worldwide).

Yair, A. & Berkowicz, S.M. (1989). Arid and semi-Arid Environments. Catena Supplement 14 (4 editions, held by 161 libraries worldwide)

Walling, D., Yair,A. & Berkowicz, S.M. (1990). Erosion and Deposition Processes. Intl. Assoc. Hydrological Sciences. Publ. No. 189.

Berkowicz, S., Lavee, H and Yair, A. (1998). Geomorphic Response of Mediterranean and Arid Areas to Climate Change. Special Issue 23 , Nos 2-4, Geomorphology.

Breckle SW, Yair A and Veste M. (2008) Arid Dune Ecosystems; the Nizzana Sands in the Negev Desert. Springer Verlag, Ecological Studies Vol. 200. (9 editions, held by 369 libraries worldwide)

Nadal-Romero, E; Torri, D; Yair, A (To be published by the end of 2012), Updating the Badlands experience. Special issue no ?

Scientific Papers (in revied journals and books)

(In red-number of citation. Only papers cited more than 20 times are shown. Most other papers have been cited between 10-20 times)

1. Nir, D. and Yair, A. (1961). Recherches geomorphologiques dans la Haute Galilee Israelienne. *Revue de Geographie Alpine*, **49**: 512-533.
2. Yair, A. (1962). The bended course of Nahal Dishon. *Israel Exploration Journal*, **9**: 89-101 (in hebrew).
3. Yair, A. (1962). The Geomorphology of Nahal Dishon. M.Sc thesis, Department of Geography, Hebrew University, Jerusalem.
4. Nir, D. and Yair, A. (1962). On the origin of Dalton lake. *Israel Exploration Journal*, **9**: 130-131 (in hebrew).
5. Yair, A. (1968) Geomorphological phenomena in Tavor and Yissaskhar watersheds. Ph. D. thesis, Department of Geography, Hebrew University, Jerusalem (in hebrew).
6. Yair, A. (1969). Geomorphological mapping: its applicationton for pedologic and erosion research. Proceedings of the Second Annual Symposium on Sediment Problems, Department of Geography, Jerusalem, pp: 49-56 (in hebrew).
7. Yair, A. (1970). The suitability of the Israeli map 1: 20,000 for quantitative analysis of the drainage network. *Studies in the Geography of Israel*, **7**: 13-24 (in hebrew).

8. Yair, A. (1971). Geomorphic processes on marl slopes. *Jerusalem Studies in Geography*, **2**: 156-190 (in hebrew).
 9. Yair, A. (1972). The structural units of the South Eastern Galilee, *Studies in the Geography of Israel*, **8**: 1-25 (in hebrew).
 10. Yair, A. (1972). La basse Galilee Sud Orientale: Etude de géomorphologie structurale. *Méditerranée*, **2**: 44-62.
 11. Yair, A. (1972). Observations sur les effets d'un ruissellement dirigé selon la pente des interfluves dans une région semi-aride d'Israël. *Revue de Géomorphologie et de Géologie Dynamique*, **14**: 537-648.
 12. Yair, A. and Klein, M. (1973). The influence of surface properties on flow and erosion processes on debris covered slopes in an arid area. *Catena*, **1**: 1-18.
 13. Yair, A. (1973). Theoretical considerations on the evolution of convex hillslopes, *Zeitschrift für Geomorphologie*, **21**: 106-121.
 14. Yair, A. and Gerson, R. (1974). Mode and rate of escarpment retreat in an extremely arid environment. *Zeitschrift für Geomorphologie*, **21**: 202- 215.
 15. Yair, A. and Lavee, H. (1974). Areal contribution to runoff on scree slopes in an extreme arid environment: A simulated rainfall experiment. *Zeitschrift für Geomorphologie*, **21**: 106-121.
 16. Yair, A. (1974). Sources of runoff and sediment supplied by the slopes of a first order drainage basin in an arid environment, Northern Negev, Israel. Report of the Commission on Present Day Geomorphological Processes. *Abhandlungen der Akademie der Wissenschaften in Göttingen, Mathematisch-Physikalische Klasse*, Nr. **29**: 403-417.
 17. Gerson, R. and Yair, A. (1975). Geomorphic evolution of some small desert watersheds and certain paleoclimatic implications (Santa Katherina area, Southern Sinai). *Zeitschrift für Geomorphologie*, **19**: 66-82.
 18. Yair, A. and Lavee, H. (1976). Runoff generative process and runoff yield from arid talus mantled slopes. *Earth Surface Processes*, **1**: 235-247. **(37)**.
- This paper is included in the book "Benchmark papers in hydrology" published by the International Association of Hydrological Sciences. The book contains "31 key papers that contributed to the current thinking of the hydrological sciences". The 31 papers have been selected among the hundreds of hydrological papers published during the period 1933-1984.
19. Yair, A. and Lavee, H. (1976) Runoff generation on arid talus slopes. In: *Geography in Israel*, pp. 353-363. Department of Geography, Israel.
 20. Yair, A. and Lavee, H. (1977). Trends of sediment removal from arid scree slopes under simulated rainstorms experiments. *Hydrological Sciences Bulletin*, **22**: 379-391.
 21. Yair, A. (1978). Interdisciplinary research on runoff and erosion processes in an arid area. Sede Boqer Experimental Site, Northern Negev, Israel. In: *Research in Fluvial Geomorphology*, Davidson, RA and Nickling, W. (Eds), Guelph, Canada, pp: 109-131.

22. Yair, A., Sharon, D. and Lavee, H (1978). An instrumented watershed for the study of Partial Area Contribution of runoff in the arid zone. *Zeitschrift fur Gemorphologie*, **29**: 71-82.
23. Bryan, RB., Yair, A. and Hodges, WK. (1978). Factors controlling the initiation of runoff and piping in Dinosaur Park badlands, Alberta, Canada. *Zeitschrift fur Gemorphologie*, **29**: 151-168.
24. Kadmon, R., Yair, A and Danin, A (1989) Relationships between soil properties, soil moisture and vegetation along loess covered hillslopes, Northern Negev, Israel. *Catena Supp.* **14**: 83-92.
25. Yair, A. and De Ploey, J. (1979). Field observations and laboratory experiments concerning the creep process of rock blocks in an arid environment. *Catena*, **6**: 235-248.
26. Yair, A., Lavee, H., Bryan, RB. And Adar, E. (1980). Runoff and erosion processes and rates in the Zin valley badlands. *Earth Surface Processes*, **5**: 205-225. (46)
27. Yair, A., Lavee, H., Goldberg, P. and Bryan, RB. (1980). Present and past geomorphic evidences in the development of a badland landscape, Zin valley, Israel. In: Sahara and Surrounding Seas, Sediment and Climatic Changes. Sarnthein, M., Seibold, E. and Rognon, P. (eds) Balkem Press, Rotterdam. pp: 125-135.
28. Yair, A., Sharon, D. and Lavee, H (1980). Trends in runoff and erosion processes over an arid limestone hillside, Northern Negev, Israel. *Hydrological Sciences Bulletin*, **25**: 243-255.
29. Lavee, H. and Yair, A. (1980). Storm runoff in humid and arid areas: examination of the Hortonian model. *Studies in the Geography of Israel*, **11**: 15-29 (in hebrew).
30. Yair, A. and Danin, A. (1980). Spatial variations in vegetation as related to the soil moisture regime over an arid limestone hillside, northern Negev, Israel. *Oecologia (Berlin)* **47**: 83-88. (77)
31. Yair, A. and Rutin, j. (1981). Some aspects of the regional variation in the amount of available sediment produced by Isopods and Porcupines, Northern Negev, Israel. *Earth Surface Processes and Landforms*, **6**: 221-234. (29)
32. Yair, A. and Lavee, H. (1981). An investigation of source area of sediment transport by overland flow along arid hillslopes. *International Association of Hydrological Sciences*, **133**: 433-446.
33. Yair, A. (1981). The Sede Boqer Experimental Site: A case study of interdisciplinary research on Present Day Geomorphic Processes in an arid environment. In: Aridic

- Soils. Dan, J., Gerson. R., Koyumdjisky, H. and Yaalon, DH. (Eds). Pub. No--- of the Volcani Institute, pp: 239- 254.
34. Yair, A., Goldberg, P. and Brimer, B. (1982). Long term denudation rates in the Zin-Havarim badlands, Northern Negev, Israel. In: *Badland Geomorphology and Piping*. Bryan, RB. and Yair, A. (Eds). Geobooks, Norwich, England. pp: 279-292.
 35. Bryan, RB. And Yair, A. (1982). Perspectives on studies of badland geomorphology. In: *Badland Geomorphology and Piping*. Bryan, RB. and Yair, A. (Eds). Geobooks, Norwich, England. pp: 1-13.
 36. Yair, A. and Lavee, H. (1982). Application of the concept of Partial Area Contribution to small arid watersheds. In: *Rainfall Runoff Modelling*. Singh, VP. (Ed). Water Resources Publications, Littleton, Colorado, USA, pp: 335-350.
 37. Yair, A. and Lavee, H. (1982). Factors affecting runoff generation over arid hillslopes, Southern Israel. *Israel Journal of Earth Sciences*, **31**: 133-143
 38. Yair, A. and Shachak, M. (1982). A case study of energy, water and soil flow chains in an arid ecosystem, *Oecologia (Berlin)*, **54**: 389-397. (35)
 39. Yair, A. (1983). Hillslope hydrology, water harvesting and areal distribution of some ancient agricultural systems in the Negev. *Journal of Arid Environments*, **6**: 283-301. (52)
 40. Olswig-Whittaker, A., Shachak, M. and Yair, A. (1983). Vegetation patterns related to environmental factors in a Negev desert watershed. *Vegetatio*, **54**: 153-165. (48)
 41. Shachak, M. and Yair, A. (1984). Population dynamics and the role of *Hemilepistus reaumuri* in a desert ecosystem. In: *The Biology of Terrestrial Isopods*. Sutton, SL. And Holdich, DM. (Eds). Academic, Press, pp: 294-314.
 42. Yair, A and Lavee, H. (1985). Runoff generation in Semiarid and Arid Areas. In: *Hydrological Forecasting*, Anderson M.G. & Burt, T.P. Wiley (Eds). Chap.8 : 183-220.
 43. Wieder, M., Yair, A. and Arzi, A. (1985). Catenary soil relationships on arid hillslopes. *Catena*, Supp.6 : 41-57.
 44. and sediment yields studies. Technical Documents in Hydrology. International Hydrological Program, UNESCO,125pp.
 45. land management and landscape evolution. *Catena*, 10: 105-110.
 46. Bryan, R.B., Campbell, I.A. and Yair, A. (1987). Postglacial geomorphic development of the Dinosaur Provincial Park, Alberta, Canada. *Canadian Journal of Earth Sciences*, **24**: 135-146.
 47. Yair, A. (1987). Environmental effects of loess penetration into the northern Negev desert. *Journal of Arid Environments*. **13** : 9-24.
 48. Yair, A. & Shachak, M. (1987) Studies in watershed ecology of an arid area. In : *Progress in Desert Research..* L. Berkovsky & M.G. Wurtele (Eds). pp. 145-193. Rowman & Littlefield : Totowa

49. Yair, A. & Enzel, Y. (1987). The relationship between annual rainfall yield in arid and semi-arid areas. The case of the northern Negev. *Catena Suppl.* 10 : 121-135.
50. Herwitz, S.R., Yair, A. & Shachak, M. (1988). Water use patterns of introduced carob trees (*Ceratonia siliqua* L.) on rocky hillslopes in the Negev desert. *Journal of Arid Environments.* 14 : 83-92
51. Kadmon, R., Yair, A. & Danin, A. (1989). Relationship between soil properties, soil moisture, and vegetation along loess-covered hillslopes, Northern Negev, Israel. *Catena .Suppl.* 14 : 43-57.
52. Yair, A. Shachak, M. & Schreiber, K.F. (1989). Hillslope minicatchments : The use of surface runoff to increase primary productivity in a rocky desert. *Allgemeine Forst. Zeitschrift.* 24 : 642-647.
53. Yair, A. & Berkowicz, S.M. (1989). Climatic and non-climatic controls of aridity: The case of the northern Negev of Israel. *Catena Suppl.* 14 : 145-158.
54. Yair, A. (1990). Runoff generation in a sandy area. Nizzana sand dunes, Israel. *Earth Surface Processes and Landforms.* 15 : 597-609. **(89)**
55. Yair, A. (1990). The role of topography and surface cover upon soil formation along hillslopes in arid climates. *Geomorphology.* 3 : 287-299.
56. Lavee, H. & Yair, A. (1990). Spatial variability of overland flow in a small arid basin. In : *Erosion and Deposition Processes* Walling, D.E., Yair, A. & Berkowicz, S.M (Eds).. International Association of Hydrological Sciences. Publ. No. 189: 105-120.
57. Yair, A., Karnieli, A. & Issar, A. (1991). The chemical composition of rainfall and runoff along arid hillslopes ; northern Negev, Israel., *Journal of Hydrology.* 129 : 371-388.
58. Yair, A. (1992). The control of headwater area on channel runoff in a small arid watershed. In: *Overland Flow.* Parsons, A.J. & Abrahams, A. (eds). pp. 51-65. University College Press : London.
59. Yair, A. (1992). Climate change and environment at the desert fringe, northern Negev, Israel. *Catena Suppl.* 25 : 133-151.
60. Rendell, H. M., Yair, A. & Tsoar H. (1993). Thermoluminescence dating of periods of sand movement and linear dune formation in the northern Negev. In: *The Dynamics And Environmental Context of Eolian Sedimentary Systems.* Pye K (Ed). Geological Society Special Publication N0 72: 69-74.
61. Verrecchia, E., Yair, A., Ribier, J., Kidron, G., & Rolko K. (1993). Le rôle des Cyanobactéries dans la fixation des sols sableux désertiques. Approche d'un cas dans le désert du Negev. *Palyno-Sciences* 2: 255-266.
62. Yair, A. (1994). The ambiguous impact of climate change at a desert fringe: Northern Negev, Israel. In : *Effects of Environmental Change in Drylands.* Millington, A.C. & Pye, K. (Eds). Chap. 11: 199-227.

This paper was also published in Russian and Chinese (without my permission)

63. Verrecchia, E., Yair, A., Kidron, K., & Verrecchia, K. (1995) Physical properties of the psammophile cryptogamic crust and their consequences to the water regime of sandy soils. Northwestern Negev desert , Israel. *Journal of Arid Environments*, 29: 427-437. (91)
64. Blume, H.P., Yair, A. & Yaalon, D.H. (1995). An Initial study of pedogenic features along a transect accross longitudinal dunes and interduneareas, Nizzana region , Israel. In: *Advances in Geocology*, no 28: 51-64.
65. Yechieli, A., Oren, A., & Yair, A. (1995). The effect of moisture distribution on bacterial numbers and microbial activities along a hillslope, Northern Negev, Israel. In: *Advances in Geocology*, no 28: 193-208.
66. Schreiber, K.F., Yair, A., & Shahak, M. (1995). Ecological gradients on the slopes of the Northern Negev, Israel. In: *Advances in Geocology*, no 28: 209-229.
67. Yair, A. (1995). Short and long term effects of bioturbation on soil erosion, water resources and soil development in an arid environment. *Geomorphology*, 13: 87-100.
68. Sorriso-Valvo, M., Bryan, R. B. Yair, A. and Antronico, L.(1995). Impact of afforestation on the hydrological response and sediment production in a small Calabrian catchment. *CATENA* 25 : 89-104. (29)
69. Yair, A. and Garti, R. (1996). The water supply of the ancient city of Arad. in: *Early Arad, the Chalcolithic and early bronze IB settlements.*, Amiran R. and Ilan, O (Eds) pp:127-138. The Israel Exploration Society.
70. Yair, A., Lavee, H. and Greitser, N. (1997). Spatial and temporal variability of water percolation and movement in a system of longitudinal dunes, Western Negev, Israel. *Hydrological processes*, 11: 43-58.
71. Lavee, H., Poesen, J. and Yair, A. (1997). Evidence of high efficiency of water harvesting by ancient farmers in the Negev desert, Israel. *Journal of Arid Environments*, 35: 341-348.
72. Kidron, G. and Yair, A. (1997). Rainfall-runoff relationship over encrusted dune surfaces, Nizzana, Israel. *Earth Surface Processes and Landforms*, 22: 1169-1184. (55)
73. Yair, A. (1998). Processus de desertification cause par une augmentation des precipitations a la marge d'un desert: le cas du Negev Septentrional. *Proceedings of the Conference "Desert Margins Changes in Africa since 135 ka: Implications for water, carbon and mankind.* Heine, K. (Ed). *Paleogeography of Africa and the Surrounding Islands*, Volume 25, pp 199-222. Balkema A.A. Rotterdam
74. Harrison, J.B.J. and Yair, A (1998). Late Pleistocene aeolian and fluvial interactions in the development of the Nizzana dune field, Negev desert, Israel. *Sedimentology*, 45: 507-518.
75. Hill, J; Udelhoven, T.H; Schutt, B and Yair A (1998). Differentiating biological soil crusts in a sandy arid ecosystem based on hyperspectra data acquired with DAIS-7915. In: Schaepman, M; Schlapfer, D and Itten, K (eds). *Proceeding of the first EARSeL workshop on imaging spectrometry, RSL; University of Zurich, Switzerland*, 6-8 Oct: 427-436.

76. Yair A (1999) Spatial variability in the runoff generated in small arid watersheds: implications for water harvesting. In: *Arid Lands Management, toward Ecological Sustainability*, Hoekstra TM, Shachak M (Eds), pp 212-222
77. Yair, A. and Bryan, R. B. (2000). Hydrological response of desert margins to climate change: The effect of changing surface properties. In: *Linking climate change to land surface changes*. McLaren & Kniveton (Eds), 49-64. Kluwer Academic Publishers, London.
78. Kidron, G.J., Yair, A. and Danin, A. (2000). Dew variability within a small arid drainage basin in the Negev Highlands. *Q. J. R. Meteorol. Soc.*, 126: 63-80. (25)
79. Kidron, G.J. and Yair, A. (2001). Runoff induced sediment yield over dune slopes in the Negev desert: Quantity and Variability. *Earth Surface Processes and Landforms*, 26: 461-474
80. Yair, A. (2001). Water harvesting efficiency in arid and semi-arid areas. In: *Sustainable land use in deserts*. Breckle SW; Veste, M and Wucherer W. (Eds) 289-301. Springer Verlag, Berlin.
81. Yair, A. (2001). Sedimentary environments in the desiccated Aral sea floor: Vegetation recovery and prospects for reclamation. In: *Sustainable land use in deserts*. Breckle; Veste & Wucherer (Eds), 310-317. Springer Verlag, Berlin.
82. Yair, A.. (2001). Effects of biological soil crusts on water redistribution in the Negev Desert, Israel: Case study in longitudinal dunes. In: *Biological soil crusts: Structure, Function and Management*. Belnap and Lange (Eds), Ecological Studies 150, Springer Verlag, Berlin, pp: 303-314.
83. Veste, M., Littman, T., Breckle, S. and Yair, A. (2001). The role of biological soil crusts on desert sand dunes in the northwestern Negev, Israel. In: *Sustainable land use in deserts*. Breckle; Veste & Wucherer (Eds), 357-367. Springer Verlag, Berlin.
84. Yair, A & Kossovsky, A. (2002) Climate and Surface Properties: Hydrological response of small arid and semi arid watersheds. *Geomorphology*, 42:43-57. (46)
85. Yair, A. & Verrecchia, E. (2002). The role of the mineral component in surface stabilization processes of a disturbed desert sandy area. *Land Degradation and Development*, 13:295-306.
86. Kidron, J.G., Yair, A., Vonshak, A., and Abeliovitch, A. (2003). Microbiotic crust control on runoff generation on sand dunes in the Negev desert. *Water Resources Research*, 39, 4: 1108-1112.
87. Kuhn, N.J. and Yair, A. (2004). Spatial distribution of surface conditions and runoff generation in small arid watersheds, Zin Valley Badlands, Israel. *Geomorphology*, 57:183-200.
88. Yair, A., and Raz-Yassif, N. (2004). Hydrological Processes in a small arid catchment. Scale effects of rainfall and slope length. *Geomorphology*, 61: 155-169. (39)
89. Kuhn, N.J., Yair, A., and Kasanin-Grubin, M. (2004). Spatial distribution of surface properties, runoff generation and landscape development in the Zin Valley Badlands, Northern Negev, Israel. *Earth Surface Processes and Landforms*, 29:1417-1430.

90. Arbel, A., Yair, A, and Oz, S. (2005). The Effect of Topography and of a Water Repellent Organic Layer on the Non-Uniform Spatial Development of Planted Trees in a Sandy Arid Area, Northern Negev Desert. *Journal of Arid Environments*, 60: 67-81.
91. Almog, R and Yair A. (2007) Negative and positive effects of topsoil biological crusts on water availability along a rainfall gradient in a sandy arid area. *Catena* 70: 437-442.
92. Ben-David R and Yair A (2008) Geological background of the Nizzana area. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin pp: 9-16.
93. Hill J; Udelhoven, T; Jarmer, T and Yair A (2008) Land cover in the Nizzana arid ecosystem: Mapping surface properties with multi-spectral remote sensing data. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:157-174.
94. Kidron GJ and Yair A (2008) Runoff and erosion processes within a dune system. . In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:239-250.
95. Veste, M; Breckle, SW and Yair A (2008) General Conclusions- Sand dune deserts, desertification, rehabilitation and conservation. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:441-460.
96. Yair, A. (2008) Effects of surface runoff and subsurface flow on the spatial variability of water resources in longitudinal dunes. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:251-270.
97. Yair, A. (2008) Succession stages in the recovery processes of the topsoil crust in a disturbed sandy arid area. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:285-300.
98. Yair, A; Veste, M; Almog, R and Breckle, SW (2008) Sensitivity of a sandy area to climate change along a rainfall gradient at a desert fringe. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:425-440..
99. Yair, A; Veste, M and Breckle, SW (2008) Geo-ecology of the NW Negev sand field. In: *Arid Dune Ecosystems*. Breckke SW, Yair A and Veste M (Eds). *Ecological studies*, Vol. 200, Springer Verlag, Berlin, pp:17-24.
100. Yair, A (2010) Eco-geomorphological approach to climate change in dryland areas. *European Society for Soil conservation, Newsletter* 1, pp: 2-11.
101. Yair, A (2010) Effets des Changements climatiques au Quaternaire Supérieur sur les environnements naturels du Negev Septentrional (Israel). *Physio-Geo*, Vol. 14, pp: 187-198.
102. Yair A, Almog R and Veste M (2011) Differential hydrological response of biological topsoil crusts along a rainfall gradient in a sandy arid area: Northern Negev desert, Israel. *Catena*, Vol. 87:326-333.

103. Hoffman, U; Yair, A., Hikel, Harald and Kuhn, NJ (2012) Soil organic carbon in the rocky desert of northern desert (Israel). *Journal of Soils and Sediments*, Vol. 2 (6): 811-825)
104. Yair A; Bryan, RB; Lavee, H; Schwanghart, W and Kuhn, BJ (2012) The resilience of a badland area to climate change in an arid environment (In press).
105. Fischer, T; Yair, A and Veste M (2012) Microstructure and hydrological regimes of biological soil crusts on sand dunes under arid and temperate climates. *Biogeosciences Discussions*, Vol 9: 12711-12734.
106. Hikel, H; Yair A; Schwangart W; Hoffmann U; Straehl S; and Kuhn NJ (2012)
Experimental investigation of soil ecohydrology on rocky desert slopes in the Negev Highlands, Israel. *Zeitschrift für Geomorphologie, Supplementary issue*. DOI: 10.1127/0372-8854/2012/S-00116

List of students

1. Master Students

Micha Kkein: Influence of surface properties on runoff and erosion processes on debris covered hillslopes in an arid area.

Hanoeh Lavee: Runoff generative process and runoff from arid talus mantled slopes.

Baruch Brimer: Long term denudation rates in the Zin-Havarim badlands, Northern Negev.

Tova Levy: Properties of topsoil crusts in the Zin badlands (With Dr. R. Gerson).

Ali Zgaier: Catenary soil properties along talus mantled slopes.

Arie Arazi: Catenary soil relationships along arid hillslopes, Northern Negev (With Dr. M. Wieder).

Yehouda Enzel: Geology and Sedimentology of the Lower Sekher Basi, Northern Negev.

Arnon Karnieli: Annual variation of soil moisture regime along opposite hillslopes in the Northern Negev Desert.

Yehoshua Rutin: Regional variation in the amount of available sediment produced by Isopodes and Porcupines on arid limestone hillsides, Northern Negev.

Iris Ziha: Soil salinity in water harvesting systems in the Northern Negev.

Yaron Shur: Soil moisture regime in hillslope microcatchments, Northern Negev.

Ronen Kadmon: Relationships among soil properties, soil moisture and vegetation along loess covered hillslopes, Northern Negev (With Prof. A. Danin).

Amir Yehieli: The effect of soil moisture distribution on bacterial numbers and bacterial activity along a hillslope, Northern Negev (With Prof A. Oren).

Giora Kidron: Dew variability within a small arid drainage basin in the Negev Highlands.

Tao Xu: Succession stages in the recovery process of disturbed topsoil crusts in a sandy arid area.

Sigalit Oz: Spatial differences in the development of planted Tamarix Aphylla trees in the sand dunes of the Northern Negev.

Youval Arbel: Effect of water repellency on the non-uniform spatial development of planted trees in a sandy area, Northern Negev.

Adar Kossovsky: Rainfall-runoff relationships in a small semi-arid drainage basin.

Naama Raz-Yassif: Analysis of long term hydrological processes in a small arid catchment (SEde Boqer experimental site).

Ram Almog: Effects of biological topsoil crusts on water availability along a rainfall gradient in a sandy arid area.

Florent Begasse: Etude de l'impact hydrologique des croûtes biologiques le long d'un gradient climatique dans la région dunaire de Haluza (With Prof. B Coque (université de Paris 7)).

Myriam Jullien : Les formations superficielles en milieux sableux méditerranéen : effets sur les régimes hydriques (With Prof.B. Coque, Université Paris 7).

Mireille Dessimoz : Communautés fongiques dans les croûtes cryptogamiques de Nizzana (With Prof.E. Verrecchia, University of Neuchâtel).

Yossi Shachar : The effects of hillslope runoff on soil properties along an arid to semi arid climatic gradient.

PH.D Students

Hanoch Lavee: The non-uniform spatial distribution of rainfall in a small arid catchment"effects on runoff and erosion processes (With Prof.D. Sharon).

Giora Kidron: Effects of biological topsoil crusts on runoff generation on sand dunes in the Northern Negev.

Hanan Ginat: Paleogeography and landscape evolution of the Hyyon and Zihor drainage basins.

Ram Ben-David: Changes in the desert margin environments during the upper Pleistocene; Nizzana area (With Dr.E. Zilberman).

Ram Almog: Soil moisture regime in the sandy depressions of the southern Mediterranean coastal plain.

Post-Doc Students

Bruce Harrison: Eolian-fluvial interactions in the landscape development of the Nizzana sand field.

Nikolaus Kuhn: Spatial distribution of surface properties and their effects on runoff generation in the Zin Valley Badlands.

