

Refereed Journal Articles

1. **Hall, J. K.** (1975). PTLOC - a FORTRAN subroutine for determining the position of a point relative to a closed boundary. *Mathematical Geology*, 7(1): 75-79.
2. **Hall, J. K.** (1976). Bathymetric chart of the Straits of Tiran. *Israel Journal of the Earth Sciences*, 24(1): 69-72.
3. **Hall, J. K.** (1976). Algorithms and programs for rapid computation of area and center of mass. *Computers & Geosciences*, 1(3): 203-205.
4. Neev, D., Almagor, G., Arad, A., Ginzburg, A., and **Hall, J. K.** (1976). The geology of the southeastern Mediterranean Sea. Geological Survey of Israel, Bulletin 68, Jerusalem, 51 p.
5. Ben-Avraham, Z. and **Hall, J. K.** (1977). Geophysical survey of Mount Carmel structure and its extension into the Eastern Mediterranean. *Journal of Geophysical Research*, 82(5): 793-801.
6. Neev, D., Shachnai, E., **Hall, J. K.**, Bakler, N. and Ben-Avraham, Z. (1978). The young (Post Lower Pliocene) geological history of the Caesarea Structure. *Israel Journal of the Earth Sciences*, 27(1/2): 43-64.
7. Neev, D., Shachnai, E., **Hall, J. K.**, Bakler, N. and Ben-Avraham, Z. (1978). Reply to the Discussion of the young (Post Lower Pliocene) geological history of the Caesarea Structure, by Arad, A., Ecker, A. and Olshina, A., *Israel Journal of the Earth Sciences*, 27(3/4): 142-149.
8. Almagor, G. and **Hall, J. K.** (1978). Morphology of the continental margin off NE Sinai and southern Israel. *Israel Journal of the Earth Sciences*, 27(3/4): 128-132.
9. Ben-Avraham, Z., Garfunkel, Z., Almagor, G. and **Hall, J. K.** (1979). Continental breakup by a leaky transform: the Gulf of Elat (Aqaba). *Science*, 206(4415): 214-216, 12 October 1979.
10. **Hall, J. K.** (1979). Sediment waves and other evidence of paleobottom currents at two locations in the deep Arctic Ocean. *Sedimentary Geology*, 23(1/4): 269-299.
11. Neev, D. and **Hall, J. K.** (1979). Geophysical investigations in the Dead Sea. *Sedimentary Geology*, 23(1/4): 209-238.
12. Almagor, G. and **Hall, J. K.** (1980). Morphology of the continental margin off northern Israel and southern Lebanon. *Israel Journal of the Earth Sciences*, 29(4): 245-252.
13. Neev, D., **Hall, J. K.** and Saul, J. M. (1982). The Pelusium Megashear System across Africa and associated lineament swarms. *Journal of Geophysical Research*, 87(B2): 1015-1030.
14. Neev, D. and **Hall, J. K.** (1982). A global system of spiraling geosutures. *Journal of Geophysical Research*, 87(B13): 10,689-10,709.
15. Almagor, G. and **Hall, J. K.** (1983). Morphology of the continental margin off north central Israel. *Israel Journal of the Earth Sciences*, 32(3): 75-82.
16. Neev, D. and **Hall, J. K.** (1984). Mantle-produced counterclockwise vortices along the northern Mediterranean belt (A genetic hypothesis for the Alpine System). *Mitt. Geol.-Palaont. Inst. Univ. Hamburg. Festband, Georg Knetsch Heft*, 56: 111-127.
17. Almagor, G. and **Hall, J. K.** (1984). Morphology of the Mediterranean continental margin of Israel (A compilative summary and a bathymetric chart). Geological Survey of Israel, Bulletin No. 77. Jerusalem, May 1984, 31 p. and a 70 x 100 cm colored bathymetric chart.
18. Mart, Y. and **Hall, J. K.** (1984). Structural trends in the northern Red Sea. *Journal of Geophysical Research*, 89(B13): 11,352-11,364.
19. Ben-Avraham, Z., Niemi, T. M., Neev, D., **Hall, J. K.** and Levy, Y. (1993). Distribution of Holocene sediments and neotectonics in the deep North Basin of the Dead Sea. *Marine Geology*, 113(3/4): 219-231.
20. **Hall, J. K.** (1993). DEMPAC: DEM storage in a two-byte integer. *Computers & Geosciences*, 19(10): 1567-1569.
21. Shoshany, M., Inbar, M., Begin, Z. B. and **Hall, J. K.** (1992). Analysis of facet and regional structure relationships in determining Digital Terrain Model (DTM) grid density. *Israel Journal of the Earth Sciences*, 41(2-4): 217-225.
22. Doytsher, Y. and **Hall, J. K.** (1995). FORTRAN programs for coordinate resection using an oblique photograph and high-resolution DTM. *Computers and Geosciences*, 21(7): 895-905.

23. **Hall, J. K.** (1996). Topography and bathymetry of the Dead Sea depression. *Tectonophysics*, 266(1-4): 177-185.
24. Udintsev, G. B., Kurentsova, N. A., Kol'tsova, A. V., Knyazev, A. B., Hall, J. K., and Udintsev, V. G., (1996). Topography and Structure of the Equatorial Segment of the Mid-Atlantic Ridge. *Oceanology*, 36(6): p. 845
25. Doytsher, Y. and **Hall, J. K.** (1997). Gridded affine transformation and rubber-sheeting algorithm with FORTRAN program for calibrating scanned hydrographic survey maps. *Computers & Geosciences*, 23(7): 785-791.
26. Doytsher, Y. and **Hall, J. K.** (1998). Interpolation of DTM using bi-directional third-degree parabolic equations, with FORTRAN subroutines. *Computers & Geosciences*, 23(9): 1013-1020.
27. Karnieli, A., Verchovsky, I., **Hall, J. K.** and Oren, E. (1998). Geographic Information System for semi-detailed mapping of soils in a semi-arid region. *Geocarto International*, 13(3): 29-40.
28. ten Brink, U., Rybakov, M., Al-Zoubi, A. S., Hassouneh, M., Frieslander, U., Batayneh, A. T., Goldschmidt, V., Daoud, M. N., Rotstein, Y. and **Hall, J. K.** (1999). Anatomy of the Dead Sea transform: Does it reflect continuous changes in plate motion? *Geology*, 27(10): 887-890.
29. Keller, C. and **Hall, J. K.** (2000). Using a digital terrain model to calculate visual sunset and sunrise times. *Computers & Geosciences*, 26(9-10): 991-1000.
30. Doytsher, Y. and **Hall, J. K.** (2001). Simplified algorithms for isometric and perspective projections with hidden line removal. *Computers & Geosciences*, 27(1): 77-83.
31. Summerhayes, C. P. Andreasen, C., Blondel, P., Cherkis, N., Flemming, N. C., Gouvela, A., **Hall, J. K.**, Hunter, P. M., Kilworth, P. D., Kobayashi, K., Laughton, A. S., Le Provost, C., Macnab, R., Schenke, H. W., Semtner, A. J., Smith, W. H. F., Tokmakian, R., Webb, D. J., Udintsev, G. B., Yeh, H. and Young, H. W. (2002). Improved Global Bathymetry: Final Report of SCOR Working Group 107. UNESCO Intergovernmental Oceanographic Commission, Technical Series 63, 111 p.
32. Jakobsson, M., Gardner, J. V., Vogt, P., Mayer, L. A., Armstrong, A., Backman, J., Brennan, R., Calder, B., **Hall, J. K.**, and Kraft, B. J., (2005). Multibeam bathymetric and sediment profiler evidence for ice grounding on the Chukchi Borderland, Arctic Ocean, Arctic Ocean, *Quaternary Research*, 63(2): 150-160.
33. Mayer, L.A., Jakobsson, M., and **Hall, J. K.**, (2005). Challenges of Collecting Law of the Sea Data in the Arctic: The Arctic and Law of the Sea", in *International Energy Policy, the Arctic and the Law of the Sea*, Center for Oceans Law and Policy, 8, Edition 9th, M.H. Nordquist, J.N. Moore & A.S. Skaridov (ed.): Leiden, Leiden, South Holland, The Netherlands: 125-140. Book Section.
34. Sade, A. R., **Hall, J. K.**, Amit, G., Golan, A., Gur-Arie, L., and Tibor, G., (2006). The Israel National Bathymetric Survey – A New Look at the Seafloor off Israel. *Israel Journal of the Earth Sciences*, 55(3): 185-187. Includes folded Northern Israel poster.
35. **Hall, J. K.**, (2006). GEBCO centennial special issue - charting the secret world of the ocean floor: The GEBCO project 1903-2003. *Marine Geophysical Researches*, 27(1): 1-5.
36. Ben-Avraham, Z., Schattner, U., Lazar, M., **Hall, J. K.**, Ben Gai, Y., Neev, D., Reshef, M., (2006). Segmentation of the Levant continental margin, eastern Mediterranean. *Tectonics*, 25(5): Tc5002. doi:10.1029/2005TC001824.
37. **Hall, J. K.**, (2006). Worldwide High-Resolution Bathymetry – Insider's View. *Hydro International*, 10(4): April 2006, p. 57.
38. **Hall, J. K.**, (2006). Autonomous Drifting Echo-sounding Buoys, *Hydro International*, 10(5): June 2006, pp. 7-9, and Cover.
39. **Hall, J. K.**, (2007). Extreme Swath Survey: The Dead Sea – Insider's View. *Hydro International*, 10(4): May 2006, p. 49?
40. Jakobsson, M., Anderson, R., **Hall, J. K.**, Jacobs, C., Monahan, D., Montoro, H., and Mustapha, A., (2007). General Bathymetric Chart of the Oceans (GEBCO): World Ocean Bathymetry, Map Scale 1:35,000,000, printed chart prepared in Stockholm Sweden for worldwide distribution by GEBCO.
41. Kristoffersen, Y., Coakley, B. J., **Hall, J. K.**, and Edwards, M., 2007. Mass wasting on the submarine Lomonosov Ridge, central Arctic Ocean. *Marine Geology*, 243(1-4), p. 132-142.
42. Sade, A. R., **Hall, J. K.**, Tibor, G., Niemi, T., M. Ben-Avraham, Z., Al-Zoubi, A. A., Hartman, G., Akawwi, E., Abueladas, A.-R., and Amit, G., (2008). The Multinational Bathymetric Survey: Northern Gulf of 'Aqaba/Elat Poster. *Israel Journal of the Earth Sciences*, 57(2): 139-144. Issue included folded poster of Elat/Aqaba area, and cover image of all the gulf..

43. **Hall, J. K.**, and Kristoffersen, Y., (2008). Med luftputebåt over drivisen i Polhavet (With hovercraft over ice in the Arctic Ocean). *GEO*, 208/8: December 2008, p. 56.
44. Kristoffersen, Y., **Hall, J. K.**, Hunkins, K., Ardai, J., Coakley, B. J., Hopper, J. R., and Healy 2005 seismic team, (2008). Extensive local seabed disturbance, erosion and mass wasting on Alpha Ridge, Central Arctic Ocean: possible evidence for an extra-terrestrial impact? *Norwegian Journal of Geology*, 88(4): 313-320.
45. **Hall J. K.**, (2008). The 25-m DTM (Digital Terrain Model) of Israel. *Israel Journal of the Earth Sciences*, 57(3-4): 45-147. DOI: 10.1560/IJES.57.3-4.145
46. **Hall, J. K.**, (2008). Arctic low-budget hydrography update – Insider's View. *Hydro International*, 12(4): May 2008, p. 11.
47. **Hall, J. K.**, (2008). Autonomous Arctic drifting seismic buoys – Insider's View. *Hydro International*, 12(10): December 2008, p. 53.
48. **Hall, J. K.**, and Kristoffersen, Y., (2009). The R.H SABVABAA - A research hovercraft for marine geophysical work in the most inaccessible area of the Arctic Ocean. *The Leading Edge*, 28(8): August 2009, 932-935.
49. **Hall, J. K.**, (2009). Post-IPY: Arctic Mapping Continues – Insider's View. *Hydro International*, 13(9): November 2009, p. 41.
50. Tibor, G., Niemi, T., Ben-Avraham, Z., Al-Zoubi, A., Sade, A.R., **Hall, J. K.**, Hartman, G., Akawi, E., Abueladas, A., and Al-Ruzouq, R., (2010). Active tectonic morphology and submarine deformation of the northern Gulf of Elat/Aqaba from analyses of multibeam data. *Geo-Marine Letters*, 30(6): 561-573.
51. **Hall, J. K.**, 2010. Polar navigation for research: Then and now. *Royal Institute of Navigation, Navigation News*, Nov/Dec: 22-25.
52. **Hall, J. K.**, and Kristoffersen, Y., (2010). A hovercraft for marine geophysical work off Canada's northernmost frontier. *Canadian Hydrographic Association, Lighthouse*, Spring/Summer: 21-27.
53. **Hall, J. K.**, 2011. Bob Ballard's Dream Comes True – Insider's View, *Hydro International*, 15(1): Jan-Feb, 2011, p. 49.
54. Beaudoin, J., Sade, A. R., Schulze, B., and **Hall, J. K.**, (2011). Dead Sea Multi-beam Echo Sounder Survey. *Hydro International*, 15(6), Nov-Dec 2011: p. 21-23.
55. Jakobsson, M., Mayer, L., Coakley, B., Dowdeswell, J. A., Forbes, S., Fridman, B., Hodnesdal, H., Noormets, R., Pedersen, R., Rebecco, M., Schenke, H. W., Zarayskaya, Y., Accettella, D., Andrew Armstrong, A., Anderson, R. M., Bienhoff, P., Camerlenghi, A., Church, I., Edwards, M., Gardner, J. V., **Hall, J. K.**, Hell, B., Hestvik, O., Kristoffersen, Y., Marcussen, C., Mohammad, R., Mosher, D., Nghiem, S. V., Pedrosa, M. T., Travaglini, P. G., and Weatherall, P., (2012). The International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0. *Geophysical Research Letters*, 39(12): L12609, 6 p. doi:10.1029/2012GL052219
56. **Hall, J. K.**, (2012). Autonomous drifting echo sounding buoys redux – Insider's View. *Hydro International*, 16(2): Mar-Apr, 2012, p. 81.
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58. Kristoffersen, Y., and **Hall, J. K.**, (2014). Hovercraft as a mobile science platform over sea ice in the Arctic Ocean. *Oceanography*, 27(2): 170-179.
59. **Hall, J. K.**, (2014). GEBCO Red Sea Grid Underway – Insider's View, *Hydro International*, 18(8), Nov-Dec, 2014, p. 6.
60. Hartman, G., Niemi, T. M., Ben-Avraham, Z., Tibor, G., Al-Zoubi, A., Sade, A. R., **Hall, J. K.**, Akawi, E., Abueladas, A., Al-Ruzouq, R., and Makovsky, Y., (2015). Distinct relict fringing reefs in the northern shelf of the Gulf of Elat/Aqaba: Markers of Quaternary eustatic and climatic episodes. *Sedimentology* (2015), 62(2): 516–540.
61. **Hall, J. K.**, (2016). What about the other 88%? – Insider's View, *Hydro International*, 20(1): Jan-Feb, 2016, p. 6.
62. Kristoffersen, Y., Tholfsen, A., **Hall, J. K.**, and Stein, R., (2016). Scientists spend Arctic winter adrift on sea ice. *Eos*, 15 Nov 2016, 97(22), p. 16-20. First published 11 October 2016, doi:10.1029/2016EO060711.
63. **Hall, J. K.**, (2017). The difference one year makes – Insider's View. *Hydro International* 21(3): May-June, p. 6

Reviewed articles in Hebrew journals

1. Lavee, D., Karnieli, A., Verchovsky, I., Meisels, A. and **Hall, J. K.** (1995). Planning of dirt roads in the desert by GIS (In Hebrew). *Ecology and Environment*. 2(4): 225-237, December 1995.

Articles in non-reviewed journals

1. **Hall, J. K.** (1981). The MEDMAP Project: A systematic analysis of Eastern Mediterranean marine geophysical data. *Geol. Surv. Isr. Current Research*, 1980. pp. 89-94.
2. Neev, D. and **Hall, J. K.** (1981). Putting the Pelusium Line into perspective. *Geol. Surv. Isr. Current Research*, 1980. pp. 72-75.
3. Neev, D. and **Hall, J. K.** (1982). The value of Slice Tectonics to applied geological research in Israel. In: *Geol. Surv. Isr. Current Research*, 1981. (R. Bogoch and B. Katz eds.). pp. 56-59.
4. **Hall, J. K.** (1983). Marine Geology and Geomathematics Division - Summary of activities in 1982: Divisional summary. In *Geol. Surv. Isr. Current Research*, 1982. (A. Ehrlich and B. Katz eds.). pp. 81-83.
5. **Hall, J. K.** (1983). The GSI Program for detection of tectonic movements through the long-term precision measurement of sea surface levels. In: *Geol. Surv. Isr. Current Research*, 1982. (A. Ehrlich and B. Katz eds.). pp. 90-92.
6. **Hall, J. K.**, Ben-Avraham, Z. and Shamaï, E. (1983). A marine geophysical survey off southern Lebanon. In: *Geol. Surv. Isr. Current Research*, 1982. (A. Ehrlich and B. Katz eds.). pp. 88-89.
7. **Hall, J. K.** and Mart, Y. (1983). The Northern Red Sea seismic survey. In: *Geol. Surv. Isr. Current Research*, 1982. (A. Ehrlich and B. Katz eds.). pp. 86-87.
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9. **Hall, J. K.** (1986). Israeli experience with LANDSAT. *ICTAF/ISA Israel Remote Sensing Bulletin*. 3(1): 16-22. January 1986.
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12. **Hall, J. K.** (1993). The GSI Digital Terrain Model (DTM) Project completed. In: *Geol. Surv. Isr. Current Research*, Volume 8. (R. Bogoch and Y. Eshet, eds.). pp. 47-50. Jerusalem.
13. **Hall, J. K.** (1995). Israeli DTM and STM (SPOT-TM MERGE) satellite imagery databases: Results, applications, and observations. In: *Cartography in Israel 1995*. (E. Shlomi and N. Kadmon, eds.). pp. 116-130. Survey of Israel Cartographic Papers, No. 13.
14. **Hall, J. K.** (1996). Historical bathymetric surveys of the inner continental shelf of the southeastern Levant. In: *Geol. Surv. Isr. Current Research*, Volume 10. (R. Bogoch and T. Weissbrod, eds.). pp. 40-45. Jerusalem.
15. **Hall, J. K.** (1998). Digital terrain model (DTM) of the island of Cyprus. In: *Geol. Surv. Isr. Current Research*, Volume 11. (T. Weissbrod, ed.). pp. 47-52. Jerusalem.
16. Neev, D. and **Hall, J. K.** (2000). Whole mantle convection as the cause of the spiraling global system of lithospheric geosutures. In: *Geol. Surv. Isr. Current Research*, Volume 12. (R. Bogoch, ed.). pp. 168-176. Jerusalem, July, 2000.
17. **Hall, J. K.** (2003). Bathymetry of the Seas around Israel: The Black and Caspian Seas. In: *Geol. Surv. Isr. Current Research*, Volume 13. (R. Bogoch, ed.). pp. 105-108. Jerusalem.

Articles in Symposia Proceedings

1. Neev, D. and **Hall, J. K.** (1977). Climatic Fluctuations during the Holocene as reflected by the Dead Sea Levels. In: *Desertic Terminal Lakes*. (Deon C. Greer, ed.). Proceedings of the International Conference on Desertic Terminal Lakes, Ogden, Utah, May 2-5, 1977, 436 pp., pp. 53-60.

2. Bruins, B. F. P., Bakler, N. and **Hall, J. K.** (1978). Offshore Dredging Study: Summary of Findings. In: Achievements of the Mineral Industry in the State of Israel; 4th Conference of Mineral Engineers, Zefat, December 1978, pp. 263-266.
3. **Hall, J. K.** (1979). Comments on the Planned Instrumental Network. In: Ministry of Energy and Infrastructure, Research Authority for the Earth Sciences, Proceedings of the Symposium on Estimate of Earthquake Risk in Israel, held at the Israel Academy of Sciences, Jerusalem, March 6, 1979. 64 pp., pp. 47-49.
4. **Hall, J. K.** (1984). The MEDMAP Project: Collection, Analysis, and Presentation of Marine Geophysical Data from Seas adjacent to Israel with the Aid of an HP-85 Personal Computer. In: Cartography in Israel - 1984; A Compendium of Papers. (P. Yoeli ed.). Ministry of Construction and Housing, Survey of Israel, Tel Aviv, Cartographic Papers No. 11. pp. 76-86; pp. 140-142 (In Hebrew), pp. 143-157 (In English).
5. **Hall, J. K.** (1985). High resolution satellite imagery for Israel and environs at 1:100,000 scale: LANDSAT-4 and the Shuttle Large Format Camera (English and Hebrew abstracts with 3 images). In: Cartography in Israel 1985 - A selection of papers and abstracts. (N. Kadmon, ed.). Survey of Israel in cooperation with the Israeli Cartographic Society, Cartographic Papers No. 12. pp. 107-111.
6. Neev, D. and **Hall, J. K.** (1986). Basement fracturing in North Africa - Arabia induced by counterclockwise movements in the mantle. In: Proceedings of the Fifth International Conference on Basement Tectonics, Cairo, Egypt, October 16-18, 1983. (S. Riad and D. L. Baars, eds.). International Basement Tectonics Association Publication No. 5, pp. 306-307.
7. **Hall, J. K.** (1991). Israeli STM (SPOT-TM Merge) Satellite Imagery and DTM Databases. In: Proceedings of the French-Israeli Conference on Remote Sensing. (A. Tal and M. A. Wolff, eds.). November 12-13, 1990, Herzlia, Israel, N.C.R.D, 91-9. pp. 177-185.
8. **Hall, J. K.** (1995). Israeli DTM and STM (SPOT-TM MERGE) satellite imagery databases: Results, applications, and observations. In: Cartography in Israel 1995. (E. Shlomi and N. Kadmon, eds.), Survey of Israel Cartographic Papers, No. 13, pp. 116-130.