

Andrew Glikson: List of publications

Books

- Glikson, A.Y. 2013. The Asteroid Impact Connection of Planetary Evolution. 2013. Springer Briefs 150 pp.
- Glikson, A.Y. 2014. The Archaean: Geological and Geochemical Windows into the Early Earth. Springer Modern Approaches in Earth Systems Science. 195 pp.

Papers

Glikson, A.Y. 1969. The outer rim of the Gosses Bluff cryptoexplosion structure, Northern Territory. BMR Record 69/42.

Milton, D.J., Barlow, B.C., Brett, R., Brown, A.R., Glikson, A.Y., Manwaring, E.A., Moss, F.J., Sedmick, E.C.E., Van Son, J. & Young, G.A. 1972. Gosses Bluff impact structure, Australia. *Science* 175:1199-1207.

Glikson, A.Y. 1976. Early Precambrian mafic-ultramafic volcanic rocks: ancient oceanic crust or relic terrestrial maria? *Geology* 4: 201-205.

Glikson, A.Y. 1977. Reply to discussion - Earliest Precambrian ultramafic-mafic volcanic rocks: ancient oceanic crust or relic terrestrial maria? *Geology* 5: 68-71.

Glikson, A.Y. 1990. Tests of the Archaean greenstone belt- terrestrial maria model [extended abstract]. Lunar Planet. Institut. Workshop on Meteorite Impacts on the Early Earth, Perth, W. Aust.

Glikson, A.Y. 1993. Asteroids and early Precambrian crustal evolution. *Earth Science Reviews* 35: 285-319.

Glikson, A.Y. 1994. Archaean spherule beds: impact or terrestrial origin? *Earth Planet. Sci. Lett.* 126: 493-496.

Glikson, A.Y. 1994. Temporal episodicity of the Precambrian crustal record with reference to the origin of mantle melting events. 12th Geol. Soc. Aust. Conv. extended abstracts No. 37, 131.

Glikson, A.Y. 1995. Asteroid/comet mega-impacts may have triggered major episodes of crustal evolution. *Eos*, February 1995, pp. 49-55.

Glikson, A.Y. 1996. Mega-impacts and mantle melting episodes: tests of possible correlations. *Australian Geol. Surv. Org. J.* 16:587-608

Glikson, A.Y. 1996. A compendium of Australian impact structures, possible impact structures and ejecta

- occurrences. *Aust. Geol. Surv. Org. J.* 16: 373-376.
- Glikson, A.Y. 1996. Preface - Australian impact structures. *Aust. Geol. Surv. Org. J.* 16: 371.
- Milton, D.J., Glikson, A.Y. & Brett, R. 1996. Gosses Bluff - a latest Jurassic impact structure, central Australia. Part 1 - Geological structure, stratigraphy and origin. *Aust. Geol. Surv. Org. J.* 16:453-486.
- Glikson, A.Y. 1997. Asteroid/comet impact connections of Precambrian episodes: re-emergence of the catastrophic paradigm in earth science. *Earth Science Frontiers*, China University of Geosciences, Beijing, 4:23-46.
- Glikson, A.Y. 1997. Eugene and Carolyn Shoemaker's Australian impacts exploration: 1981-1997. *The Aust. Geol.* 104:15-19.
- Pirajno, F. & Glikson, A.Y. 1998. Shoemaker Impact Structure (formerly Teague ring structure), Western Australia. *The Austr. Geol.* 106:16-18.
- Glikson, A.Y. 1998. Eugene Shoemaker and the impact paradigm in earth and planetary science. in: J. Henrard & S. Yabushita (editors), *Dynamics of comets and asteroids and their roles in earth history*, Celestial Mechanics and Dynamical Astronomy 68:3-4.
- Glikson, A.Y. 1998. Eugene Shoemaker - bibliography of impact papers. in: J. Henrard & S. Yabushita (editors), *Dynamics of comets and asteroids and their roles in earth history*, Celest. Mech. Dynam. Astro. 68:9-24.
- Pirajno, F. & Glikson, A.Y. 1998. Shoemaker Impact Structure in Western Australia. in: J. Henrard and S. Yabushita (editors), *Dynamics of comets and asteroids and their roles in earth history*, Celest. Mech. Dynam. Astro. 68:25-30.
- Glikson, A.Y., 1998. The astronomical connection of terrestrial evolution. *The Aust. Geol.* 108:34-37.
- Glikson, A.Y. 1999. Oceanic mega-impacts and crustal evolution. *Geology* 27:387-390.
- Gorter, J.D. & Glikson, A.Y. 2000. Late Eocene to pre-Miocene buried crater and breccia lens at Fohn-1, North Bonaparte Basin, Timor Sea: a probable extra-terrestrial connection. *Meteor. Planet. Sci.* 35: 381-392.
- Mory, A.J., Iasky, R., Glikson, A.Y. & Pirajno, F. 2000. Woodleigh, Carnarvon Basin, Western Australia: a new 120 km-diameter impact structure. *Earth Planet. Sci. Lett.* 177:119-128
- Mory, A.J., Iasky, R., Glikson, A.Y. & Pirajno, F. 2000. Reply to discussion of "The Woodleigh structure, Carnarvon Basin, Western Australia: a multi-ring impact structure of 120 km diameter" (Earth Planet. Sci. Lett. 177:119-128) by U.W. Reimold and C. Koeberl. *Earth Planet. Sci. Lett.* 184:359-365.

- Glikson, A.Y. 2000. Archaean impact fallout spherules and early terrestrial maria basins. *The Aust. Geol.* 114: 30-34.
- Glikson, A.Y. 2000. Woodleigh - the world's 4th largest impact structure. *Meteorite* 6:18-20.
- Glikson, A.Y. 2001. The astronomical connection of terrestrial evolution: crustal effects of post 3.8 Ga mega-impact clusters and evidence for major 3.2 ± 0.1 Ga bombardment of the Earth-Moon system. *J. Geodynamics* 32: 205-229
- Uysal, I.T., Golding, S., Glikson, A.Y. & Mory, A.J. 2001. K-Ar and oxygen isotopic constraints of illitic clays on the timing and evolution of the Woodleigh impact structure, Carnarvon Basin, Western Australia. *Earth Planet, Sci. Lett.* 192:281-289.
- Glikson, A.Y. 2002. Two and a half billion year-old asteroid impact signatures in the Pilbara, Western Australia: major discoveries by Simonson & Hassler. *Meteorite* 8:24-28.
- Glikson, A.Y. 2003. Comment on "Extraterrestrial influence of mantle plume activity" by D.H. Abbott and A.E. Isley, *Earth Planet, Sci. Lett.* 215:425-427
- Glikson, A.Y. 2003. Comment on "Early Archaean spherule beds: chromium isotopes confirm origin through multiple impacts of projectiles of carbonaceous chondrite type, by Kyte et al. 2003", *Geology, Online Forum* e36-e37.
- Glikson, A.Y. 2004. Comment on "Impacts do not initiate volcanic eruptions: Eruptions close to the crater" (B.A. Ivanov and H.J. Melosh, 2003, *Geology* 31:869-872). *Geology Online Forum*, e47-e48.
- Glikson, A.Y. & Vickers, J. 2004. Asteroid impact fallout units and associated tsunami units, Pilbara Craton, Western Australia. *Geol. Surv. West. Aust. Rep.* (unpublished).
- Glikson, A.Y. 2004. An Alternative Earth: Comment. *GSA Today*, 10.1130/10525173(2004)014<e1, e1-e2.
- Glikson, A. & Allen, C. 2004. Iridium anomalies and fractionated siderophile element patterns in impact ejecta, Brockman Iron Formation, Hamersley Basin, Western Australia: evidence for a major asteroid impact in simatic crustal regions of the early Proterozoic earth. *Earth Planet. Sci. Lett.* 220:247-264.
- Glikson, A.Y., Allen, C. & Vickers, J. 2004. Multiple 3.47-Ga-old asteroid impact fallout units, Pilbara Craton, Western Australia. *Earth Planet. Sci. Lett.* 221:383-396.
- Glikson, A.Y. 2004. Early Precambrian asteroid impact-triggered tsunami: excavated seabed, debris flows, exotic

- boulders, and turbulence features associated with 3.472.47 Ga-old asteroid impact fallout units, Pilbara Craton, Western Australia. *Astrobiology*, 4: 19-50.
- Glikson, A.Y. 2004. Extraterrestrial impact episodes and Archaean to early Proterozoic (3.8-2.4 Ga) habitats of life. In: Thomas, P.J., Chyba, C.F. and McKay, C.P. (eds) *Comets and the Origins of Life*, Springer Verlag, Heidelberg, Germany.
- Glikson, A.Y., 2004. Comment on “Iridium anomalies and shocked quartz in a Late Archean spherule layer from the Pilbara Craton: New evidence for a major asteroid impact at 2.63 Ga, by Rasmussen, B. and Koeberl, C.”. *Geology Online Forum*, e84-e85.
- Glikson, A.Y. 2004. Impacts do not initiate volcanic eruptions: Eruptions close to the crater: Comment. *Geology*, Online Forum DOI 10.1130/0091-7613 (2003) 31<e48, e48.
- Glikson, A.Y. 2004. Petrology and mafic volcanic breccia, Bedout-1, Bedout continental rise, offshore Western Australia. *Science* 306, 5696, 13.
- Glikson, A.Y. 2004. Un-shocked mafic volcanic breccia, Bedout-1, Western Australia. American Geophysical Union, December 2004 meeting, San Francisco.
- Gorter, J.D., Glikson, A.Y. & Deighton, I. 2004. Diatremes in the Northern Bonaparte Basin? Implications for petroleum exploration. in: Ellis, G.K., Baillie, P.W. & Munson, T.J. (Eds) 2004 Timor Sea Petroleum Geoscience, Proceedings of the Timor Sea Symposium, Darwin, Northern Territory, 19-20 June, 2003, Northern Territory Geological Survey, Special Publication 1.
- Glikson, A.Y, Mory, A.J., Iasky, R.P., Pirajno, F., Golding, S.D. & Uysal, I.T. 2005: Woodleigh, Southern Carnarvon Basin, Western Australia: history of discovery, Late Devonian age, and geophysical and morphometric evidence for a 120 km-diameter impact structure. *Aust. J. Earth Sci.* 52:545-664
- Glikson, A.Y., Eggins, S., Golding, S.D., Haines, P.W., Iasky, R.P. Mernagh, T.P., Mory, A.J. & Uysal, I.T. 2005. Microchemistry and microstructures of hydrothermally altered shock-metamorphosed basement gneiss, Woodleigh impact structure, Southern Carnarvon Basin, Western Australia. *Aust. J. Earth Sci.* 52:555-574.
- Iasky, R.P. & Glikson, A.Y. 2005. Gnargoo: a possible 75 km-diameter post-Early Permian –pre-Cretaceous buried impact structure, Carnarvon Basin, Western Australia. *Aust. J. Earth Sci.* 52:577-586.
- Glikson, A.Y. 2005. Geochemical and isotopic signatures of Archaean to Palaeoproterozoic extra-terrestrial impact

- ejecta/fallout units. *Aust. J. Earth Sci.* 52:785-798.
- Glikson, A.Y. 2005. Geochemical signatures of Archaean to Early Proterozoic maria-scale oceanic impact basins. *Geology* 133:125-128.
- Glikson, A.Y. 2005. Asteroid/comet impact clusters, flood basalts and mass extinctions: significance of isotopic age overlaps. *Earth Planet. Sci. Lett.* 236:933-937
- Glikson, A.Y. & Vickers, J. 2005. The 3.26–3.24 Ga Barberton asteroid impact cluster: Tests of tectonic and magmatic consequences, Pilbara Craton, Western Australia. *Earth Planet. Sci. Lett.* 241:11-20.
- Glikson, A.Y. 2006. Siderophile element patterns, PGE nuggets and vapour condensation effects in Ni-rich quench chromite-bearing microkrystite spherules, 3.24 Ga S3 impact unit, Barberton greenstone belt, Kaapvaal Craton, South Africa. *Earth Planet. Sci. Lett.* 253:1-16.
- Glikson, A..Y. 2006. Asteroid impact ejecta units overlain by iron-rich sediments in 3.5–2.4 Ga terrains, Pilbara and Kaapvaal cratons: Accidental or cause–effect relationships? *Earth Planet. Sci. Lett.* 246:149-160
- Glikson, A.Y., Vickers, J. 2006. Asteroid mega-impacts and Precambrian banded iron formations: 2.63 Ga and 2.56 Ga impact ejecta/fallout at the base of BIF/argillite units, Hamersley Basin, Pilbara Craton, Western Australia. *Earth Planet. Sci. Lett.* 254:214-226.
- Glikson, A.Y. 2007. Pre-3.2 Ga impact events and geodynamic implications. Eds M.V. Van Kranendonk, H. Smithies, V. Bennett, *Earth's Oldest Rocks, Developments in Precambrian*, 15:1087-1103.
- Glikson, A.Y. 2007. Milestones in the evolution of the atmosphere with reference to climate change. *Aust. J. Earth Sci.* 55,:123-157.
- Glikson, A.Y. 2008. Field evidence of Eros-scale asteroids and impact-forcing of Precambrian geodynamic episodes, Kaapvaal (South Africa) and Pilbara (Western Australia) Cratons. *Earth Planet. Sci. Lett.* 267:558-570
- Glikson, A.Y., Hickman, A.H. & Vickers, J. 2008. The Hickman impact crater, Hamersley Ranges, Western Australia. *Aust. J. Earth Sci.*, 55:1107-1117.
- Glikson, A.Y. 2009. Mass Extinction of Species: The Role of External Forcing. *J. Cosmology* 2:230-234.
- Glikson, A.Y., Vickers, J. 2010. Asteroid impact connections of crustal evolution. *Aust. J. Earth Science* 57:79–95.
- Glikson, A.Y., Jablonski, D., Westlake, S. 2010. Origin of the Mt Ashmore structural dome, west Bonaparte Basin, Timor Sea. *Aust. J. Earth Sci.* 57:411–430.

- Glikson, A.Y. 2010. Archaean asteroid impacts, banded iron formations and MIF-S anomalies: A discussion. *Icarus* 207:39–44.
- Glikson, A.Y. & Uysal, I.T. 2010. Evidence of impact shock metamorphism in basement granitoids, Cooper Basin, South Australia (Extended abstract). Australian Geothermal Conference 2010, Adelaide.
- Garde, A. & Glikson, A.Y., 2011. Recognition of Re-Deformed Planar Deformation Features (PDFs) in Large Impact Structures. Poster, Meteoritic.
- Glikson, A.Y., Uysal, I.T., Fitz Gerald, J.D. & Saygin, E. 2013. Geophysical anomalies and quartz microstructures, Eastern Warburton Basin, North-east South Australia: tectonic or impact shock metamorphic origin? *Tectonophysics* 589:57–76.
- Glikson, A.Y. & Uysal, I.T. 2013. Geophysical and structural criteria for the identification of buried impact structures, with reference to Australia. *Earth Sci. Rev.* 125:114–122.
- Glikson, A.Y., Uysal, I.T., Saygin, E. 2013. Evidence for twin asteroid mega-impacts, Warburton Basin, northeast South Australia. *MESA J.* 69 Issue 2 – 2013.
- Glikson, A.Y., Meixner, A.J., Radke, B., Uysal, I.T., Saygin, E., Vickers J. & Mernagh, T.P. 2015. Geophysical anomalies and quartz deformation of the Warburton West structure, central Australia. *Tectonophysics* 643:55-72.

Early crustal evolution - Pilbara Craton, Western Australia

- Glikson, A.Y. 1979. Siderophile and lithophile trace element evolution of the Archaean mantle. *BMR J. Aust. Geol. Geophys.* 4:253-279.
- Jahn, B.M., Glikson, A.Y., Peucat, J.J. & Hickman, A.H. 1980. REE geochemistry and geochronology of Archaean silicic volcanics and granitoids from the Pilbara Block, Western Australia. *Geochim. Cosmochim. Acta* 45:1633-1652.
- Glikson, A.Y. & Hickman, A.H. 1981. Geochemistry of Archaean volcanic sequences, eastern Pilbara Block, Western Australia. *BMR Record* 81/36.
- Glikson, A.Y. & Hickman, A.H. 1981. Geochemical stratigraphy of Archaean mafic-ultramafic volcanic successions, eastern Pilbara Block, Western Australia. in: *Archaean Geology* [eds. J.E. Glover & D.I. Groves].

Geol. Soc. Aust. sp. Publ. 7: 287- 300.

Hamilton, P.J., Evensen, N.M., O'Nions, R.K., Glikson, A.Y., & Hickman, A.H., 1981. Sm-Nd dating of the Talga-Talga Subgroup, Warrawoona Group, Pilbara Block, Western Australia. In: Archaean Geology [eds. J.E. Glover & D.I. Groves], Geol. Soc. Aust. sp. Publ. 7:187-192.

Glikson, A.Y. 1983. Geochemistry of Archaean tholeiitic basalt and high-Mg to peridotitic komatiite suites, with petrogenetic implications. Geol. Soc. India Mem. 4: 183-219.

Glikson, A.Y. 1984. Significance of early Archaean mafic- ultramafic xenolith patterns. In: Archaean Geochemistry (ed. A. Kroner, A.M. Goodwin, G.N. Hanson), pp. 263-280. Springer-Verlag, Berlin.

Glikson, A.Y. 1984. Discussion of the paper - Komatiites and the structure of the Archaean mantle. Earth Planet. Sci. Lett. 66: 326-328.

Glikson, A.Y., Goodwin, A.M., Hanson, G.N. & Kroner, A., 1984. In: Archaean Geochemistry (eds. A. Kroner, A.M. Goodwin, G.N. Hanson), pp. V-VII, Springer- Verlag, Berlin.

Glikson, A.Y., Pride, C., Jahn, B., Davy, R. & Hickman, A.H. 1986. REE and HFS [Ti, Zr, Nb, P, Y] element evolution of Archaean mafic-ultramafic volcanic suites, Pilbara Block, Western Australia. BMR Record 86/6.

Glikson, A.Y., Davy, R. & Hickman, A.H., 1986. Geochemical data files of Archaean volcanic rocks, Pilbara Block, Western Australia. Aust. Bur. Min. Resour. Record 86/14.

Glikson, A.Y. 1986. Spatial granite-greenstone relationships: evidence from mafic-ultramafic xenolith distribution patterns. in: The Tectonic Evolution of Greenstone Belts. Lunar. Planet. Instit. Contr. 584:44-46.

Glikson, A.Y., Davy, R., Hickman, A.H., Pride, C. & Jahn, B. 1987. Trace elements geochemistry and petrogenesis of Archaean felsic igneous units, Pilbara Block, Western Australia. Aust. Bur. Miner. Resour. Record 87/30.

Gruau, G., Jahn, B., Glikson, A.Y., Davy, R., Hickman, A.H. & Chauvel, C. 1987. Age of the Archaean Talga-Talga Subgroup, Pilbara Block, Western Australia, and early evolution of the mantle: new Sm-Nd evidence. Earth Planet. Sci. Lett. 85:105-116.

Glikson, A.Y., Davy, R. & Hickman, A.H. 1989. Trace metal distribution in basalts, Pilbara craton, Western Australia, with stratigraphic-Geochemical implications. BMR Record 1991/46.

Sun, S.S., Wallace, D.A., Hoatson, D.M., Glikson, A.Y. & Keays, R.R., 1991. Use of geochemistry as a guide to platinum group element potential of mafic-ultramafic rocks: examples from the west Pilbara Block and Halls Creek

Mobile Zone, Western Australia. Precambrian Res. 50:1-35.

Early crustal evolution - Eastern Goldfields of Western Australia

- Glikson, A.Y. 1970. Geosynclinal evolution and geochemical affinities of early Precambrian systems. Tectonophysics 9: 397- 433.
- Glikson, A.Y. 1971. Primitive Archaean element distribution patterns: chemical evidence and tectonic significance. Earth Sci. Planet. Lett. 12: 309-320.
- Glikson, A.Y. 1971. Structure and metamorphism of the Kalgoorlie System southwest of Kalgoorlie, Western Australia. Geol. Soc. Aust sp. Publ. 3: 443-460.
- Glikson, A.Y. 1971. Archaean geosynclinal sedimentation near Kalgoorlie, Western Australia. Geol. Soc. Aust. sp. Publ. 3: 443- 460.
- Glikson, A.Y. 1972. Petrology and geochemistry of metamorphosed Archaean ophiolites, Kalgoorlie-Coolgardie, Western Australia. Aust. Bur. Miner. Resour. Bull. 125: 121-189.
- Glikson, A.Y. 1972. Early Precambrian evidence of a primitive ocean crust and island nuclei of sodic granite. Geol. Soc. Am. Bull. 83: 3323-3344.
- Glikson, A.Y. & Sheraton, J.W. 1972. Early Precambrian trondhjemite suites in Western Australia and northwestern Scotland and the geochemical evolution of shields. Earth Planet. Sci. Lett. 17: 227-242.
- Glikson, A.Y. 1973. Discussion: a major unconformity in the Archaean, Jones Creek, Western Australia. J. Geol. Soc. Aust. 20: 229-232.
- Glikson, A.Y. & Lambert, I.B. 1973. Relations in space and time between major Precambrian shield units: an interpretation of Western Australian data. Earth Planet. Sci. Lett. 20:395-403.
- Glikson, A.Y. 1976. Stratigraphy and evolution of primary and secondary greenstones: significance of data from southern hemisphere shields. in: Early History of the Earth (ed. B.F. Windley), pp. 257-278. Wyllie and Sons, London.
- Glikson, A.Y. & Lambert, I.B. 1976. Vertical zonation and petrogenesis of the early Precambrian crust in Western Australia. Tectonophysics, 30: 55-89.

- Glikson, A.Y. 1977. On the origin of early Precambrian gneisses. *Contr. Miner. Petrol.*, 62: 171-178.
- Glikson, A.Y. 1978. Archaean granite series and the early crust, Kalgoorlie System, Western Australia. In: *Archaean Geochemistry* [eds. B.F. Windley and S.M. Naqvi], pp.151-174. Elsevier, Amsterdam.
- Glikson, A.Y. 1979. Early Precambrian tonalite-trondhjemite sialic nuclei. *Earth Sci. Rev.* 15: 1-73.
- Hallberg, J.A. & Glikson, A.Y. 1980. Archaean granite-greenstone terrains of Western Australia. In: *Precambrian of the Southern Continents* (ed. D.R. Hunter), pp. 33-103. Elsevier, Amsterdam.

Early crustal evolution - Canada, India, South Africa

- Glikson, A.Y. 1976. Trace element geochemistry and origin of early Precambrian acid igneous series, Barberton Mountain Land, Transvaal. *Geochim. Cosmochim. Acta* 40: 1261-1280.
- Glikson, A.Y. 1978. On the basement of Canadian greenstone belts. *Geosci. Canada*, 5: 3-12.
- Glikson, A.Y. 1979. On the foundation of the Sargur Group. *Geol. Soc. India J.* 20: 248-255.
- Glikson, A.Y. 1982. The early Precambrian crust with reference to the Indian Shield - an essay. *Geol. Soc. India J.* 23: 581- 603.
- Jahn, B., Gruau, G., & Glikson, A.Y. 1982. Onverwacht Group komatiites, South Africa: REE geochemistry, Sm-Nd age and mantle evolution. *Contr. Miner. Petrol.* 80: 25-40.
- Glikson, A.Y. & Jahn, B. 1985. REE and LIL elements, eastern Kaapvaal shield, south Africa: evidence of crustal evolution by 3-stage melting. *Geol. Soc. Canada sp. Pap.* 28: 303-324.

Proterozoic crustal evolution

- Glikson, A.Y. 1976. Archaean to early Proterozoic shield elements: relevance of plate tectonics. *Geol. Assoc. Canada sp. Publ.* 14: 489-516.
- Glikson, A.Y. 1977. Evidence on the radius of the Precambrian Earth. *BMR J. Aust. Geol. Geophys.* 2: 229-232.
- Glikson, A.Y. 1980. Precambrian sial-sima relations: evidence of Earth expansion? *Tectonophysics* 63: 193-234.
- Glikson, A.Y. 1979. The missing Precambrian crust. *Geology* 7: 449-454.

- Glikson, A.Y. 1980. Reply to discussion. The missing Precambrian crust. *Geology* 8: 114-117.
- Glikson, A.Y. 1980. Uniformitarian assumptions, plate tectonics and the Precambrian Earth. In: *Precambrian Plate Tectonics* (ed. A. Kroner), pp. 91-104. Elsevier, Amsterdam.
- Glikson, A.Y. 1983. Discussion of the paper - Exposed cross sections through the continental crust: implications to crustal structure, petrology and evolution. *Earth Planet. Sci. Lett.* 64: 168-170.
- Glikson, A.Y. 1983. Geochemical, isotopic and palaeomagnetic tests of early sial-sima patterns: the Precambrian crustal enigma revisited. *Geol. Soc. Am. Mem.* 161: 95-118.

Regional Geology - Mount Isa/Cloncurry, North-western Queensland

- Glikson, A.Y. & Derrick, G.M. 1970. The Proterozoic metamorphic rocks of the Cloncurry 1:100 000 Sheet area, North-western Queensland. *BMR Record* 1970/24.
- Glikson, A.Y. 1972. Structural setting and origin of Proterozoic calc-silicate mega-breccia: Cloncurry region, north-western Queensland. *J. Geol. Soc. Aust.* 19: 53-56.
- Derrick, G.M., Wilson, I.H., Hill, R.M., Glikson, A.Y. & Mitchell, J.E. 1974. Geology of the Mary Kathleen 1:100 000 Sheet area, Queensland. *Aust. Bur. Min. Resour. Record* 74/90.
- Glikson, A.Y., Derrick, G.M., Wilson, I.H. & Hill, R.M. 1976. Tectonic evolution and crustal setting of the middle Proterozoic Leichhardt river fault trough, Mount Isa region, northwestern Queensland. *BMR J. Aust. Geol. Geophys.* 1: 115-129.
- Derrick, G.M., Wilson, I.H., Hill, R.M., Glikson, A.Y. & Mitchell, J.E. 1977. Geology of the Mary Kathleen 1:100 000 Sheet area, Northwest Queensland. *Aust. Bur. Miner. Resour. Bull.* 193.
- Glikson, A.Y. & Derrick, G.M. 1978. Geology and geochemistry of middle Proterozoic basic volcanic belts, Mount Isa-Cloncurry, North-western Queensland. *Aust. Bur. Miner. Resour. Record* 1978/48.

Regional geology - Western Musgrave Block, central Australia

- Glikson, A.Y. 1989. New evidence on the significance of ultrabasic components of the layered, Giles Complex,

central Australia. BMR Research Newsletter 10: 4-6

Ballhaus, C.G. & Glikson, A.Y. 1989. Magma mixing and intraplutonic quenching in the Giles Complex, central Australia. *J. Petrol.* 30: 1443-65.

Glikson, A.Y. 1990. The Giles Complex, central Australia: new insights into tectonics and Metamorphism. BMR Research Newsletter 12: 18-20

Glikson, A.Y. & Mernagh, T. 1990. Major pseudotachylite breccia-vein networks, Giles layered basic-ultrabasic complex, western Musgrave Block, central Australia. *BMR J. Aust. Geol. Geophys.* 11: 509-519.

Glikson, A.Y., Ballhaus, C.G., Golby, B.R. & Shaw, R.D. 1990. Major thrust faults and crustal zonation of the middle to upper Proterozoic crust in central Australia. NATO Advanced Study Institute on Exposed Cross Sections Through the Continental Crust, Kluwer Academic Publishers, Netherlands, pp. 285-304.

Glikson, A.Y., Ballhaus, C.G. & Pharaoh, T.C. 1990. New insights into the structure and metamorphism of the Giles Complex, western Musgrave Block, central Australia. BMR Res. Newsletter 12: 18-20.

Stewart, A.J. & Glikson, A.Y. 1991. The felsic metamorphic/igneous core complexes hosting the Giles Complex. BMR Res. Newsletter 14: 6-7.

Glikson, A.Y. 1992. NGMA mapping in granulite/gneiss terrains of central Australia. BMR Res. Newsletter 16: 22.

Ballhaus, C.G., Glikson, A.Y. & Keays, R.R. 1991. Magmatic evolution and economic potential of the Giles layered igneous complex, central Australia. BMR Research Newsletter 16: 6-9.

Clarke, G.L., Buick, I.S. & Glikson, A.Y. 1992. Contact relationships and structure of the Hinckley Gabbro and host rocks, Giles Complex, western Musgrave Block, W.A.. BMR Research Newsletter 17: 6-8.

Clarke, G.L, Stewart, A.J. & Glikson, A.Y. 1993. High pressure eclogite facies metamorphism associated with the Woodroffe thrust. AGSO Res. News. 18: 6-7.

Glikson, A.Y., Ballhaus, C.G., Clarke, G.L., Sheraton, J.W., Stewart, A.J. & Sun, S.S. 1994. Structure and petrology of the upper Proterozoic Giles Complex, western Musgrave Block, central Australia: evidence for deep crustal mafic-ultramafic magmatism and related anatexis. 12th Geol. Soc. Aust. Conv. extended abstracts No. 37, 133.

Glikson, A.Y. 1995. Editor's Preface: the Giles mafic-ultramafic complex and environs, western Musgrave Block, central Australia. AGSO Journal, 16/1&2:1

- Glikson, A.Y., Ballhaus, C.G., Clarke, G.L., Sheraton, J.W., Stewart, A.J. & Sun, S.S., 1995. Geological framework and crustal evolution of the Giles mafic/ultramafic complex and environs, western Musgrave Block, central Australia. AGSO Journal, 16/1&2: 41-68.
- Ballhaus, C.G. & Glikson, A.Y. 1995. Petrology of layered mafic-ultramafic intrusions of the Giles Complex, western Musgrave Block, central Australia. AGSO Journal, 16/1&2: 69-90.
- Clarke, G.L., Buick, I.S., Glikson, A.Y. & Stewart, A.J. 1995. Structural and pressure-temperature evolution of host rocks of the Giles Complex, western Musgrave Block, central Australia: evidence for multiple high-pressure events. AGSO Journal, 16/1&2: 127-146.
- Glikson, A.Y., Ballhaus, C.G., Clarke, G.L., Sheraton, J.W. & Sun, S.S. 1995. Geology of the Giles Complex and Environs, western Musgrave Block, central Australia. AGSO Bulletin 239, 209 p.

Regional Geology - Arunta Block, central Australia

- Evans, T.G. & Glikson, A.Y. 1969. Geology of the Napperby Sheet area, Northern Territory. Aust. Bur. Miner. Resour. Record 1969/85.
- Stewart, A.J., Glikson, A.Y., Warren, R.G. & Offe, L. 1980. Geology of the north Arunta block, N.T. BMR Record 1980/63.
- Glikson, A.Y. 1984. Granulite-gneiss terrains of the southwestern Arunta Block, central Australia: Glen Helen, Narwietooma and Anburla 1:100 000 Sheet areas. BMR Record 1984/22.
- Glikson, A.Y. 1986. Regional structure and evolution of the Redbank-Mt Zeil thrust zone: a major lineament in the Arunta Inlier, central Australia. BMR J. Aust. Geol. Geophys. 10: 89-107.
- Glikson, A.Y. 1987. An upthrusted early Proterozoic basic granulite-anorthosite suite and anatetic gneisses, southwestern Arunta Block, central Australia: evidence on the nature of the lower crust. Trans. Geol. Soc. S. Afr. 89: 263-283.
- Glikson, A.Y. & Foden, J. 1990. Geochemistry of an early Proterozoic basic granulite – gneiss suite and petrogenetic implications, Arunta Inlier, central Australia. in: Precambrian Continental Crust and its Economic Resources [ed. S.M. Naqvi]. Elsevier, Amsterdam, pp. 287-326

Lamproites

Gorter, J.D. & Glikson, A.Y. 2002. Fohn lamproite and a possible Late Eocene - pre-Miocene diatreme field, Northern Bonaparte Basin, Timor Sea. Australian Journal of Earth Science 49: 847-868

Image processing and Remote sensing

Glikson, A.Y. 1992. Mapping in high grade terrains: use of remotely sensed data and airborne geophysics. BMR Research Newsletter 16: 22-23

Glikson, A.Y. 1993. Landsat Thematic Mapper image correlations: application to NGMA mapping of the western Musgrave Block, central Australia. 7th Australasian Remote Sensing Conference, Melbourne, 6 pp.

Glikson, A.Y. 1994. Landsat-5 thematic mapper correlation: application to NGMA mapping of the Western Musgrave Block, central Australia. AGSO Record 1994/17.

Glikson, A.Y. & Creasey, J.W. 1994. Landsat-5-TM correlations in high grade metamorphic and igneous terrains: the Tomkinson Ranges-Jameson region, Musgrave Block, central Australia. 12th Geol. Soc. Aust. Conv. extended abstracts No. 37, 135.

Glikson, A.Y. & Creasey, J.W. 1995. Landsat-5-TM and Geoscan MKI correlations of the Giles Complex and associated granulites, Tomkinson Ranges, central Australia. AGSO Journal, 16/1&2: 173-193.

Glikson, A.Y., 1997. Mineral mapping in the north Pilbara Craton: a directed principal components of band ratios method for correlating Landsat-5 Thematic Mapper spectral data with geology. AGSO Research Newsletter 26:1-4.

Glikson, A.Y. 1997. Explanatory notes for a Landsat-5-TM image series processed according to an RGB directed principal components/band ratio formula, northern Pilbara Craton, Western Australia. AGSO Research Record 1997/20.

Glikson, A.Y. 1998. Landsat-5 Thematic mapper multispectral-lithological correlations, north Pilbara Craton, Western Australia. AGSO Research Record 1998/22.