

REFERENCES

- Abdel Khalek, M. L. (1979):** "Tectonic evaluation of the basement rocks in the Southern and Central Eastern Desert of Egypt". Inst. appl. Geol. Bull. King Abdulaziz Univ. Jeddah, 3 (1), pp. 53-62.
- Abdel Khalek, M. L., Takla M. A., Sehim A., Hamimi and El Manawi A. W. (1992):** "Geology and tectonic evaluation of Wadi Beitan area, Southeastern Desert, Egypt." Geology of Arab world, Cairo Univ., pp. 369-394.
- Abdel Latif, R. M. (2001):** "Evaluation of Surface Water Resources for some catchments in Shalateen-Halayeb area, south of the Red Sea Coast, Egypt." M.Sc. Thesis, Fac. of Science, Alexandria Univ., Egypt, 150 P.
- Abdel Razik, T. M. (1972):** "Comparative studies on the Upper-Early Paleocene sediments of the Red Sea Coast, Nile valley, Egypt." 8th Arab Petroleum Congr. Algeria, pap. B-3, 23P.
- Abu El-Izz, M. S. (1971):** "Landforms of Egypt." The American Univ., Cairo press, 249p.
- Aglan, O. S. (2001):** "Geology of water resources in Wadi Hodein Basin, southeast of the Eastern Desert, Egypt." Ph. D. Thesis. Fac. of Science, Ain Shams Univ., Cairo, Egypt. 211 P.
- Al-Gamal, S. A. (1997):** "Hydrology of overland flow at Halayib and Shalatein watersheds, Eastern Desert, Egypt." Tr. J. of Engineering and Environmental Sciences, 21, pp. 295-304.
- Appelo, C. A. J., Postma, D. (1993):** "Geochemistry, groundwater and pollution." A.A. Bikema/ Rotterdam/ Brookfield, U.S.A.

- Badawy, M. M. M. (1994):** "Geology and petrogenesis of some alkaline rocks in the South Eastern Desert, Egypt." Ph. D., Fac. Sci, Cairo Univ., Cairo, Egypt, 215p.
- Ball, J. (1912):** "Geography and geology of south Eastern Egypt." Survey of Egypt, Cairo, 394 p.
- Collins, W. D. (1923):** "Graphic representation of water analysis." Ind. Eng. Chem. Vol. 15, p.394. New York.
- Collins, A.G., (1969):** "Geochemistry of some Andarko Basins containing high concentration of iodide". Chem. Geol., 4, 169p.
- Collins, A. G., (1975):** "Geochemistry of oil field waters." Elsevier, Scientific Publishing Company, Amsterdam, The Netherlands .496P.
- Conoco, (1987):** "Geological map of Egypt." NF 36 NE Bernice- (scale 1:500,000). Conoco Inc., Cairo, Egypt.
- Correns, C. W. (1940):** "Die chemische Verwitterung der Silikate. Naturwissenschaften." Vol. 28 pp. 369-376. Berlin.
- Davis, S.N and Deweist, R.S.M, 1967:** "Hydrogeology", Willey & Sony/ New York, 463 pp.
- Davis, S., Whittmored, D. and Martin, J. (1998):** "Uses of chloride/Bromide ratios in studies of potable water. J. G. W. Vol. 36, No. 2: 338-350.
- Diken, A.P. (1981):** "Hydrothermal leaching of rhyolite glass in the environmental implecation for nuclear waste disposal" Nature, pp.294- 347.
- Dojlideo, J.R. and Gerald, A.B. (1993):** "Chemistry of water and water pollution." Ellis Horwood series in water and waste water technology, New York.

- Desert Research Center (DRC) (2001):** "Meteorological data recorded at Shalatein Station, Installed by Desert Research Center, Internal unpublished report".
- Durfor, C. N. and Becker E. (1964):** "Public water supplies of the 100 largest cities in the United States, 1962". U.S. Geological Survey Water Supply, Paper 1812, 364.
- Eaton, F. M. (1950):** "Significance of carbonates in irrigation waters". Soil Sci., Vol. 69, No.2, pp.127-128.
- Egyptian Meteorological Authority 1993, Meteorological data of Aswan and Ras Benas (1964-1993).**
- El Amawy, M. A., Wetait, M. A., El Alfy, Z. S., and Ahmed, S. (2000):** "Geology, Geochemistry and structural evolution of Wadi Beida area, south Eastern Desert, Egypt." Egyptian Journal of Geology, Vol. 44/1, 2000, pp. 65-84.
- El Ashmawy, M. H. (1986):** "The ophiolitic melange of the south Eastern Desert of Egypt." Geol. Surv. Egypt, paper 9,24p.
- El-Nagar, Z. R. M., (1970):** "On a proposed lithostratigraphic subdivisions for the late Cretaceous-Early Paleogene succession in the Nile Valley, Egypt." 7th Arab petroleum Congr. Kuwait.
- El Shamy, I. Z. (1992):** "Recent recharge and flash flooding opportunities in the Eastern Desert, Egypt." Ann. Geol. Surv. Egypt, Vol. XVIII, pp. 323-334.
- Endrisezewitz, M., (1988):** "Gliederung der Nubischen Serie in Sudost-egypten." Auswertung von Gelände-Und Fernerkundungsdaten-Berliner geowiss. Ah. A.79. 141pp. Berline.
- Fathi, R. G., yehia, M. A., Zaghloul, E. A. and Elewa, H. H. (1999):** "Hydrogeoelectric investigations conducted at Wadi Hodein, Wadi Ibib and Wadi Serimatai located at the southeastern part of Egypt." paper presented at the international Conference of

regional Aquifer Systems in Arid Zones-Managing non-renewable resources, Tripoli, Libya, 22 p.

- Fishman, M.J. and Friedman, L.C. (1985):** "Methodes for determination of inorganic substances in water and fluvial sediments" U.S. Geol. Surv. Book 5, chapter A1. Open file report 85-495, Denver, Chlorado.
- Freeze, R. A. and Cherry, J. A. (1979):** "Groundwater". Prentice-Hall, Inc., Englewood Cliffs, New Jersey, U.S.A., 604p.
- Gado, H.S. (2000):** "Petrology and radioactivity of the basement rocks of Wadi Kulet El-Naaga-Wadi Faiko area, Southeastern Desert, Egypt". Ph.D., Thesis Ain Shams University, Egypt, 217P.
- Ghanem, M. (1972):** "Geology of Wadi Hodein area" Ann. Geol. Surv. Egypt, V.Z, pp. 199-214.
- Goldich, S. S. (1938):** "A study in rock-weathering" J. Geol. pp. 46, 17-58.
- Gorski, A. and Ghodef, K. (2000):** "Salinization of shallow water aquifer in El-Qaa Coastal Plain, Sinai, Egypt." Nichopas. Coperncus University, Vol. 80 P.63-72.
- Guindy, Kh. A., Sallouma, M.K. and Atwa, S.M. (1996):** "On the chemical properties of the groundwater in the metamorphic rocks in the Eastern Desert, Bull.of Agriculture and water, Vol.15-April 1996,The Arab Center for the Studies of Arid zones and Dry lands (ACSAD),pp.113-126
- Hassan, T. M., Awad, M. A. and Hamza, M. S. (1996):** "Study the mechanism of recharge of the phreatic aquifers, southeastern Egypt using environmental isotopes and hydrogeochemistry.". Arab Jour. Of Nuclear Sciences and applications, 29 (3), pp. 1-21.

- Hem, J. D., (1989):** "Study and interpretation of the chemical characteristics of natural water". U. S. Geol. Survey, water supply, paper 2254 P. 3rd. edition, third printing 248 p.
- Hounslow, A.W. (1995):** "Water quality data analysis and interpretation" New York, Lewis Publisher.
- Hume, W. F. (1934):** "Geology of Egypt" (Vol. II): The Fundamental PreCambrian rocks of Egypt and the Sudan; part I, the metamorphic rocks. Geol. Surv. Egypt, pp. 1-300.
- Hume, W. F. (1935):** "Geology of Egypt" (Vol. II): The fundamental PreCambrian rocks of Egypt and the Sudan; part II, the later plutonic and minor intrusive rocks. Geol. Surv. Egypt, pp.301-688.
- internal report DRC, (2005):** "Geomorphologic and Geologic setting of water resources, Shalatein and Abu Ramad area." Internal report, Geology Dept., Desert Research Center, 215 P.
- Ismail, Y.L, El Sayed, E., Gomaa, M.A. (2005):** "Primary hydrogeologic investigations of Nubia sandstone and fracture basement aquifers in the area between Elshalateen and Halayeib, Eastern Desert, Egypt." Fac. of Sci, Assuit Univ. 23P.
- Kaddah, M. T. (1954):** "The soils and water supply of Burg El-Arab" Bull. Inst, Desert, Egypt, Vol. IV No.1.
- Klitzsch, E., List, F. K., Pohlmann, G. Handley, R., Hermina, M. and Meissner, B. (1986):** "Geological map of Egypt" Scale 1: 500,000, 20 sheets, Cairo (Conoco/EGPC).
- Kramer, J. R. (1968):** "Mineral-water equilibria in silicate weathering" 23rd Int. Geol. Congr., 6, pp. 149-160, Prague.
- Krauskopf, K. B. (1979):** "Introduction to geochemistry" (2nd ed.): New York, Mc Graw-Hill, 617 p.

- Krejci-Graf, K. (1934):** "Geochemie der Naturgase" Kali, 28, pp. 249-252, 261-265, 275-278, 287-290, Hale (Saale).
- Lotfi (1967):** "Some observation on the geology and structure of Wadi Beitan area, South Eastern Desert." Bull. Ins. Desert, Egypt, Tome. XII. No.2, pp. 1-28.
- Matthess, G. (1982):** "The properties of groundwater". Translation of Die Beschaffenheit de Grundwassers (in German), A Wiley Interscience publication, John Wiley and Sons, New York, U.S.A., 406p.
- Mckee, J.E. and Wolf, H.W. (1963):** "Water quality criteria". California State Water quality Board Publ., 3A., U.S.A.
- Mina, M., Shatya, F., Mansour, S. and Hassan, A. (1996):** "Exploration of groundwater at the area between Halayieb and Shalaten, Eastern Desert, Egypt" Proc. Geol. Surv. Egypt Cenn. Conf. Pp. 581-598.
- Moshrif, M. S. and mohamad, M. S. (1993):** "Contribution to the geology of Gabal Abraaq, south east of Aswan, Egypt." Annals of Geol. Surv. Egypt, VXIX, pp. 325-333.
- National Academy of Science (NAS) and National Academy of Engineering (NAE), (1972):** "Water quality criteria" Report prepared by committee of water quality on request of U.S. Environmental protection Agency, Washington, D.C., U.S.A., 594p.
- Omar, H. H. E. (2000):** "Hydrogeology and hydrological studies in Halaib-Shalatin area, Egypt, using remote sensing technology and other techniques." Ph. D., thesis, Fac. Sci., Ain Shams Univ., Cairo, Egypt, 282p.

- Rainwater, F. H. and Thatcher, L. L. (1960):** "Methods for collection and analysis of water samples." U.S. Geol. Survey. Water Supply. Paper No.1454, U.S.A., 301p.
- Ramadan, T. M. (1994):** "Geological and geochemical studies on some basement rocks at Wadi Hodein area, south Eastern Desert, Egypt." Ph. D. thesis, Fac. Sci., Al Azhar Univ., Cairo, Egypt, 192p.
- Rankama, K. and Sahama, T. G. (1950):** "Geochemistry" Chicago, University of Chicago Press, 912 p.
- Rankama, K. and Sahama, T. G. (1960):** Geochemistry. 2nd ed., 912 p. Chicago.
- Revelle, R. (1941):** "Criteria for recognition of sea water in groundwater." Am. Geophys. Union Trans. Vol. 22 pp. 593-597.
- Richards, L. A., (1954):** "Diagnosis and Improvement of Saline and Alkali Soils." US. Department of Agriculture, Handbook Vol. 60, 160 p, Washington D.C.,U.S.A.
- Richter, B., Dutton A. and Kreitler C. (1990):** "Identification of the sources and mechanisms of salt-water pollution affecting groundwater quality." A case study, West Texas. Univ. of Texas, Austin, Texas 78713. 43 p.
- Sabet, A. H. (1972):** "On the stratigraphy of the basement rocks of Egypt." Geological Survey of Egypt, Annal.2, pp. 79-101.
- Said, R. (1962):** "The Geology of Egypt" Elsevier publishing Co., Amesterdam, New York, 377p.
- Saleh, M. F., 1992:** "Hydrogeological and hydrochemical studies on some regions at the southeastern parts of Eastern Desert, Egypt." Ph. D. Thesis. Fac. Of Sciences, Suez Canal Univ., Egypt.

- Scholler, H. (1955):** "Geochemiedex eaux south erraimes." Revue de l'Inst. Francais du pet. 10, pp 230-244.
- Sharpino, L. and Brannak, M. W. (1962):** "Rapid analysis of silicate, carbonate and phosphate rocks." U. S. Geol. Surv. Bull. No. 1144. A.
- Sonnenfeld, P. (1984):** "Brines and evaporites, Orland, Florida." Academic. Press, 613p.
- Sulin, N. A., (1946):** "Basis of classification of natural waters." Moscow, US.S.R. (In Russian Lang.).
- Starinsky, A., Bielski, M., Ecker A. and Steinitz G. (1983):** "Tracing the origin of salts in groundwater by Sr isotopic composition (the crystalline complex of the southern Sinia, Egypt)." Elsevier Science Publisher B. V., Isot. Geosci., 1; 257-267.
- Sticher, H. and Bach, R. (1966):** "Fundamentals in the chemical weathering of silicates." Soils Fert., 29, 4, pp. 321-325, Harpenden
- Strichio , N.C., Muehlenbachs, K. and Seitz, M.G. (1986):** "Element redistribution during hydrothermal alteration of rhyolite in an active geothermal system: Yellow Stone drill cores". Y-7 and Y-8 Geochim et Cosmochim. Acta., 50, pp1619-1631.
- Todd, D. K. (1959):** "Groundwater Hydrology." 2nd edition, John Wiley and Sons Interscience, New York, U.S.A., 336p.
- Tavitian, C. (1994):** "Mixing phenomena due to sea-water intrusion in the limestone Zarakas Mountain Range." Groundwater quality, Nash & McCall (eds), Chapman & Hall ISBN 0412586207.
- Truesdell, A. H. and Jones, B. F. (1974):** WATEQ; "A computer program for calculating chemical equilibria of natural waters." U.S. Geological Survey Journal Research, Vol.2, pp.233-248.

- Turekian, K. K. (1969):** "The oceans, streams and atmosphere." In: K.H. Wedepohl, Ed., Handbook of Geochemistry, Vol. 1. Berlin, Heidelberg, New York: Springer, pp.297-323.
- Turekian, K. K. and Kulp (1956):** " The geochemistry of strontium" Geochm. Cosmochim. Acta, 10, pp. 245-296, London, New York, Paris.
- Turekian, K. K, and Wedepohl, K. H. (1961):** "Distribution of the elements in some major units of the earth's crust." Geological Society of America Bulletin, V.72, pp. 175-192.
- U.S. Environmental Protection Agency (EPA, 2003):** "Primary and Secondary drinking water regulations." Guidance for nuisance chemicals.
- Vengosh and Rosenthal, E. (1994):** "Saline groundwater in Israel, its bearing on the water crisis in the country." J. Hydrol. 156: 389-430.
- Wilcox, L.V. (1948):** "The quality of water for irrigation use." U.S. Dept. Agric., Tech. Bull., U.S.A., 962, pp. 1-40.
- Wilcox, L.V. (1955):** "Classification and use of irrigation waters." U.S.A., Salinity Lab. Circulation No.969, Washington D.C., U.S.A.
- Wilcox, L. V. and Magistad, O. L. (1943):** "Interpretation of analyses of irrigation waters and the relative tolerance of crop plants" Riverside, Calif., Agr. Eng. Pp.8.
- World Health Organization, 1971:** "International standards for drinking water." 3rd edition, Geneva, Switzerland.
- World Health Organization (WHO), (1971):** "European standards for drinking water", 2nd ed. Geneva, U.S. Environmental Protection

Agency, 1975, and World Health Organization and European standards for drinking water, 1970.

World Health Organization (WHO), (1984): "International standards for drinking water." 3rd edition, Vol. 1, Geneva, Switzerland, 130P.

Zaghloul, E.A., and Elewa, H.H. (1999): "Reports on studying Halaib-Shalatein area, Water resources." Unpublished report in National Authority for Remote Sensing and Space Science (NARSS).