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Professor of Geophysics & Director of Seismic Studies

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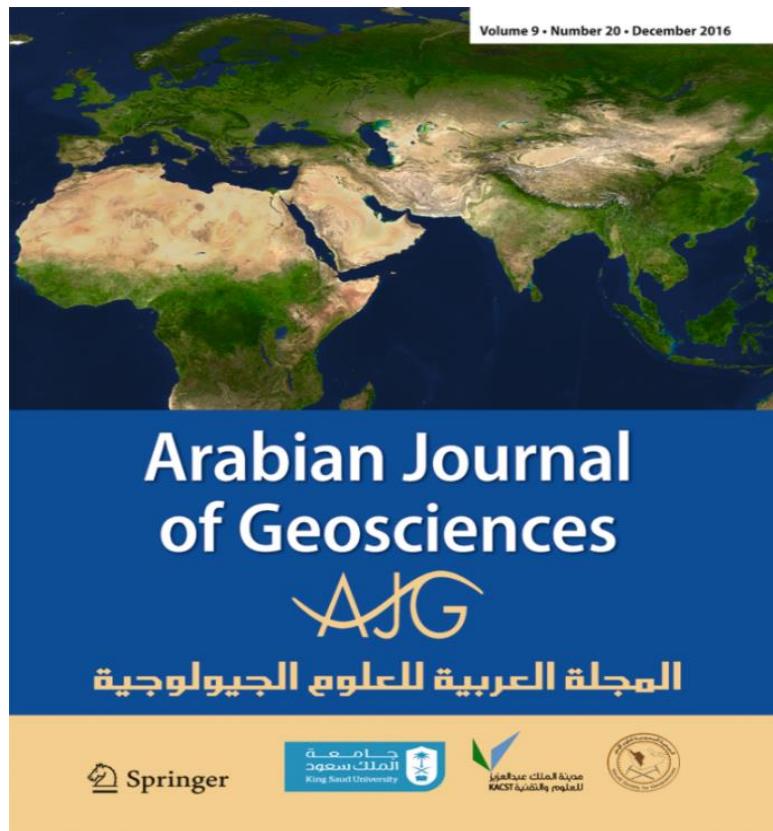
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EDUCATIONAL BACKGROUND

1977 - 1981 : B.Sc. Geology , University of Riyadh, Saudi Arabia.

1983 - 1985 : M.Sc. Applied geophysics and Hydrogeology ,
University of South Florida , Tampa , USA.

1987 - 1990 : Ph.D. Geophysics (Earthquake Seismology) ,
University of Minnesota , Minneapolis , MN , USA.



ACADEMIC & ADMINISTRATIVE EXPERIENCES

- 1981 - 1986 : Geological Engineer at the Saudi Arabian Standards Organization.
- 1986 – 1990 : Research Assistant at the Seismological-Geophysical Observatory, KSU
- 1990 - 1994 : Assistant Professor of Geophysics , Dept. of Geology , KSU.
- 1995 - 1997 : Assistant Director of Seismological Observatory, KSU.
- 1995 – 1999 : Associate Professor of Geophysics, Dept. of Geology, KSU.
- 1997 - 1999 : Director of Seismological-Geophysical Observatory, KSU.
- 1999 – Present : Director of Seismic Studies Center, King Saud University.
- 1999 - Present : Professor of Geophysics, Dept. of Geology, KSU.
- 2006 - Present : President of the Saudi Geosciences Society.
- 2006 - 2010 : Chairman of Geology Dept., KSU.
- 2008 - Present : Editor-in-Chief, Arabian J. of Geosciences
- 2013 – 2015 : Chairman of Geology & Geophysics Dept.
- 2010 - Now : Director of Empty Quarter Research Chair, KSU
- 2011 - 2013 : Principal Investigator of Highly Cited Researchers with Oregon State Univ.
- 2014 – Now : Principal Investigator of Highly Cited Researchers with Max Planck Institute

المنجزون البارزون العرب

Dr. Abdullah M.S. Al-Amri

Geophysicist & Seismologist

S A U D I A R A B I A

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SCIENTIFIC MEMBERSHIPS & COMMITTEES

- Member of the Seismological Society of America.
- Member of the American Geophysical Union.
- Member of the European Association for Environmental & Engineering Geophysics
- Member of earthquakes mitigation committee in the eastern Mediterranean region.
- Member of the board council of The Saudi Society for Earth Sciences.
- Member of the board council of The Middle East Seismic Forum, USA.
- Scientific consultant of the Military Survey Administration (1995 – 1997).
- Scientific consultant of King Abdulaziz City for Science & Technology (1992- Now)
- Member of the National Committee for Assessment of Earthquake Hazards
- Member of the mitigation of natural hazards committee at the Civil Defense.
- Member of the Research Center, College of Science, KSU (1999 – 2003).
- Member of the Editorial Board of the Journal of Science, KSU (2000 – 2004).
- Member of the Editorial Board of the Iranian Journal of Seismology (2006 –).
- Scientific Member of the Saudi Building Code .
- Scientific Consultant for The Saudi Geological Survey (2006 -)
- International Referee for some scientific Journals
- External Examiner for M.Sc and Ph.D theses.
- Supervising several M.Sc theses.

PRIZES

- AL-Maraee Prize for Scientific Innovation (2005)
- Golden Distinguished Researcher Award, KACST (2006)
- Abha City Prize for Scientific Contributions (2007)
- Arab Admirable Achievers Award (2009)
- King Saud University for Scientific Excellence (2013)
- American Geophysical Union for Scientific Activities (2013)
- Sultan Gabous University for Scientific Contributions (2013)
- Emerald Who's Who in Asia (2014)
- Who's Who in the World (2016)
- Tunisian Geological Society for Scientific Excellence (2016)
- Arab Geophysical Union for Scientific Achievement (2016)
- Hawarry Bou Median Univ. for Scientific Contribution (2016)
- Best Editor-in – Chief of Scientific Journals by SPRINGER (2017)



Scientific Publication

1991 – 1999

Al-Amri,A.M., Schult, F.R., and Bufe, C. " Seismicity and Aeromagnetic Features of the Gulf of Aqabah Region". J. of Geophysical Res. V.96 No.B12, PP. 20,179 - 20,185 (1991).

Al-Amri, A.M. " Preliminary geophysical characteristics of the Subsurface shallow structure of the Wadi Bishah area, southern Arabian Shield . J. King Saud Univ., V.6, Science (1) , pp. 53-67, (1994).

Al-Amri, A.M . " Seismicity of the southwestern region of the Arabian Shield and southern Red Sea ". J. African Earth Sciences, V. 19, pp. 17- 25. (1994).

Al-Amri , A.M. " Recent seismic activity in the northern Red Sea ". J. of Geodynamics, V. 20, no.3, pp. 243-253, (1995).

Al-Amri , A.M. " Preliminary seismic hazard assessment of the southern Red Sea region . J. of European Earthquake Engineering, V. 3, pp. 33 – 38, (1995).

Al-Amri, A. M. " The application of geoelectrical surveys in delineating groundwater in semiarid terrain - Case history from central Arabian Shield ". M.E.R.C. Ain Shams University, Earth Science Ser., V. 10, pp. 41 -52 , (1996).

Al-Haddad, M., Al-Dail, M. and Al-Amri, A. Preliminary reconnaissance report on the 22 Nov., 1995 Gulf of Aqaba earthquake (Saudi Arabian Side).Proceedings of Eleventh World Conference on Earthquake Engineering, Acapulco, Mexico, June 23-28, 1996., Paper no. 1947, ISBN 0080428223, (1996).

Al-Amri, A., Al-Dail, M. and Al-Haddad, M. Recent Swarm Activity in the Gulf of Aqabah Region. Proceedings of Eleventh World Conference on Earthquake Engineering, Acapulco, Mexico, June 23-28, Paper no., 1945, ISBN 0080428223, (1996).

Gharib, A., Necioglu, A. and Al-Amri, A. " Seismicity re-evaluation of the northern Red Sea". Geophysical J. International, V. 130, pp. 335 - 348. (1997).

Al-Amri, A.M. " The use of the resistivity method for groundwater investigation in semiarid region (a case history) ``. Annals of the geological Survey of Egypt, V.XXI, PP. 553 - 564. (1998).

Al-Amri, A. M. "The Application of geoelectrical vertical soundings in delineating the hydrostratigraphy of the southern Red Sea coastal area, Saudi Arabia". J. of King Abdulaziz University : Earth Sciences, V. 10., PP. 73-90. (1998).

Al-Amri, A. M.. "The crustal structure of the western Arabian platform From the spectral analysis of long-period P-wave amplitude ratios". Tectonophysics, V. 290, pp. 271 -283. (1998).

Al-Amri, A. M., Punsalan, B. T. and Uy, E.A.. "Seismic Expectancy Modeling of Northwestern Saudi Arabia". European Earthquake Engineering, V. 2, pp. 16 - 21. (1998).

Al-Amri, A. M., Punsalan, B.T., and Uy, E. A. " Spatial distribution of the seismicity parameters in the Red Sea regions ". J. of Asian Earth Sciences, V. 16, Nos. 5 - 6, pp. 557 - 563.(1998).

Sandvol, E., Seber, D., Barazangi, M., Vernon, F., Mellors, R., and Al-Amri, A. "Lithospheric seismic velocity discontinuities beneath the Arabian Shield". Geophysical Research Letters, V. 25, pp. 2873 - 2876. (1998).

Al-Amri, A. M., Davis, P., Al-Amri, M., Gharib, A. and Berger, J. " Seismic characteristics of RAYN/ GSN station, Saudi Arabia ". J. of King Saud University : Science (2) , V. 11, pp. 81 – 92. (1999).

Al-Amri, A. M. " The crustal and upper mantle structure of the Interior Arabian Platform". Geophysical J. International, V. 136, pp. 421 - 430. (1999).

Al-Amri, A. M.. " The Gulf of Aqabah earthquake sequence (Nov. 1995 – Feb. 1996)". European Earthquake Engineering, v. 1, pp. 19 - 24, (1999).

Al-Amri, A. M., Mellors, R., and Vernon, F " Broadband seismic noise characteristics of the Arabian Shield". Arabian J. for Science and Engineering, King Fahd Univ. for Petroleum & Minerals, v.24, no. 2A, pp. 99 - 113. (1999).

Al-Amri, M. and Al-Amri, A.. " Configuration of the seismographic networks in Saudi Arabia ". Seismological Research Letters, V. 70, no. 3, pp. 323 – 332. (1999).

Wolfe, C., Vernon, F. and Al-Amri, A. " Shear-wave splitting across western Saudi Arabia The pattern of upper mantle anisotropy at a Proterozoic Shield ". Geophysical Research Letters, V. 26, no.6, pp. 779-782. (1999).

Rodgers, A., Walter, W., Zhang, Y., Mellors, R., Al-Amri, A. and Yu-Shen Zhang “Lithospheric structure of the Arabian shield and platform from complete regional waveform modeling and surface wave group velocities”. Geophysical Journal International, v. 138, pp. 871 - 878. (1999).

Mellors, R., Camp, V , Vernon, F., Al-Amri, A. and Gharib, A. Regional waveform propagation in the Saudi Arabian Peninsula and evidence for a hot upper mantle under western Arabia”. Journal of Geophysical Research, v. 104, no. B9, pp. 20, 221 – 20, 235. (1999).

2000 – 2010

Park Y., Nyblade, A., Rodgers, A., and Al-Amri, A. Upper mantle structure beneath the Arabian Peninsula and Northern Red Sea from teleseismic body wave tomography: Implications for the origin of Cenozoic uplift and volcanism in the Arabian Shield. Geochem. Geophys. Geosys., 8, doi : 10.1029 / 2006 GC 001566. . (2007).

Hansen, S., Rodgers, A., Schwartz, S., and Al-Amri, A. Imaging Ruptured Lithosphere Beneath the Red Sea and Arabian Peninsula. Earth and Planetary Science Letters, 259, 256 – 265. (2007).

Hansen, S., Gaherty, J., Schwartz, S., Rodgers, A., and Al-Amri, A. Seismic Velocity Structure and Depth-dependence of Anisotropy in the Red Sea and Arabian Shield from Surface Wave Analysis. Journal of Geophysical Research, Vol., 113 Doi : 10.1029/2007JB005335. (2008).

Al-Amri, A., Rodgers, A., and Al-khalifah, T., Improving the Level of Seismic Hazard Parameter in Saudi Arabia Using Earthquake Location. Arabian J. of Geosciences,V. 1, pp.1-15, (2008).

Mogren, S., Al-Amri, A., Al-Damegh, Fairhead, D., Jassim, S., and Algamdi, A. Sub- surface Geometry of Ar Rika and Ruwah Faults from Gravity and Magnetic Surveys. Arabian J. of Geosciences, 1, DOI 10.1007/s12517-008-0003-3, 33 – 47. (2008)

Adams, A., Brazier, R., Nyblade, A., Rodgers, A., and Al-Amri, A. Focal depths and Source Mechanisms for some moderate Earthquakes in the Zagros Mountains. Bulletin of the Seismological Society of America, Vol. 99, No. 3, pp. 2044–2049, June 2009, doi: 10.1785/0120080314. (2009).

Abdel-Rahman, K., Al-Amri, A., and Abdel-Moneim, E. Seismicity of Sinai Peninsula, Egypt. Arabian J. of Geosciences 2: 103–118. (2009).

Al-Amri, A., and Fnais, M. " Seismo-Volcanic Investigation of 2009 Swarms at Harrat Lunayyir (Ash Shaqah), Western Saudi Arabia". Inter. J. Earth Sciences & Engineering, (2010).

2011 - 2016

Al-Zahrani, H. A.1*, Fnais, M. S.1, Al-Amri, A. M.1 and Abdel-Rahman, K. Tectonic framework of Lunayyir area, northwest Saudi Arabia through aftershock sequence analysis of 19 May, 2009 earthquake and aeromagnetic data . International Journal of Physical Sciences vol. 7(44), pp. 5821-5833. (2012).

Al-Amri, A.M., David H., Fnais, M., Rodgers, A., and Hemaida, M., A Regional Seismic Array of Three-Component Stations in Central Saudi Arabia. Seismological Research Letters , Volume 83, No. 1, 49-58. (2012).

Al-Amri, A. M., Fnais M. S. K. Abdel-Rahman, Mogren S. and Al-Dabbagh M.Geochronological dating and stratigraphic sequences of Harrat Lunayyir, NW Saudi Arabia, International Journal of Physical Sciences Vol. 7(20), pp. 2791-2805. (2012).

Al-Anezi, G. T., Al-Amri, A. M. and Zaman, H.: Investigation of the weathering layer using seismic refraction and high-resolution seismic reflection methods, NE of Riyadh city. Arabian J. of Geosciences, 5, 1347-1358.(2012)

Abdulla, Fathy , Al-Turki, A., and Alamri, A. Evaluation of groundwater resources in the Southern Tihama plain, Saudi Arabia. Arabian J. Geosciences, DOI 10.1007/s12517-014-1401-3. (2014).

Al-Malki, M., Fnais, M., Al-Amri, A., and Abdelrahman , K., Estimation of fundamental frequency in Dammam City, Eastern Saudi Arabia. Arabian J. Geosciences, DOI 10.1007/s12517-014-1337-7. (2014).

Alyousef, K., Al-Amri, A., Fnais, M., Abdelrahman, K., and Loni, O. Site effect evaluation for Yanbu City urban expansion zones, western Saudi Arabia, using microtremor analysis. Arabian J. Geosciences, DOI 10.1007/s12517-014-1310-5. (2014).

Abdel-Fattah , A., Kim, K., Fnais ,M., and Al-Amri, A. Source process and tectonic implication of the January 20, 2007 Odaesan earthquake, South Korea. Physics of the Earth and Planetary Interiors 229 , pp. 72–81. (2014).

Abdel-Fattah , Al-Amri, A . Fnais , M., and K. Abdulrahman. M. Estimation of source Parametersand Attenuation using Digital Waveformsof Al-Ays Earthquake 2009, Saudi Arabia. Arabian J. of Geosciences, 7 : 3325- 3337 (2014).

Alyousef, K., Al-Amri, A., Fnais, M., Abdelrahman, K., and Loni, O. Evaluation of site response characteristics of King Abdulaziz City for science and technology, Saudi Arabia using microtremors and geotechnical data. Arabian J. Geosciences, 8, pp. 5181–5188 (2014).

Al-Amri, A. Lithospheric structure of the Arabian Shield from Joint Inversion of P- and S- Receiver Functions and Dispersion Velocities, Accepted in Acta Geologica Polonica (2015).

Mokbel Al-Harbi, Elkhedr Ibrahim, Abdulla Al-Amri, Kamal Abdelrahman, Essam Abd El-Motaal and Meinrat O. Andreae. Structure of the Yanbu suture zone in Northwest Saudi inferred from aeromagnetic and seismological data. Arabian J. of Geosciences, Arabia DOI 10.1007/s12517- 015-1814-7 (2015).

Pitarka, A., Al-Amri, A., Pasanos, M., Rodgers, A., and Mellors, R., Long-Period Ground Motion In the Arabian Gulf From Earthquakes in the Zagros Mountains Thrust Belt", And Applied Geophysics V.172, Issue 10, pp 2517-2532 (2015). Pure

Alharbi, M.; Fnais, M.; Al-Amri, A., Kamal Abdelrahman and Andreae, M. O. Site Response Assessment at the City of Alkhobar, Eastern Saudi Arabia from Microtremors and Bore Hole Data. Accepted in the Arabian J. of Geosciences (2015).

Fnais,M., Al-Amri, A., K. Abdelrahman, Al-Yousef, K., O. Loni, and E. Abdel Moneim: Assessment of soil-structure resonance in southern Riyadh City, Saudi Arabia. Arabian Journal of Geosciences, V. 8, Issue 2, pp. 1017-1027 (2015).

Almadani, S. Al-Amri, A., Fnais, M., K. Abdelrahman, E. Ibrahim, E. Abd El-Motaal. Evaluation of geotechnical parameters for urban site in southern Khamis Mushait city, southwest Saudi Arabia, using seismic refraction method. Arabian Journal of Geosciences,DOI : 10.1007/s12517-014-1615-4 (2015).

Macholdt, D. Jochum, K., Pohlker, C., Stoll, B., Weis, U., Weber, B., Muller, M., Kappl, M., Buhre, S., Kilcoyne, A., Weigand, M., Scholz, D., Al-Amri, A., and Andreae, M. Microanalytical methods for in-situ high resolution analysis of rock varnish at the micrometer to nanometer scale. Chemical Geology 411, 57-68 (2015).

Fnais, M. S., Al-Amri, A. M.; K. Abdelrahman; Abdel-monem, E. and El- Hady, Sh Arabia. Seismicity and Seismotectonics of Jeddah -Makkah region, west-central Saudi Journal of Earth Science, 26 (5), 746-754 (2015)

Almadani, S., Al-Amri, A.; Fnais, M., K. Abdelrahman; Ibrahim, E. and Abdelmonem, E.: Seismic hazard assessment for Yanbu metropolitan area, western Saudi Arabia. Arabia Journal of Geosciences, DOI 10.1007/s12517-015-1930-4 (2015).

Duncan, R., Adam J.R. Kent, Carl R. Thornber, Tyler D. Schlieder, and Abdullah M. Al-Amri. Timing and composition of continental volcanism at Harrat Hutaymah.western Saudi Arabia . Journal of Volcanology and Geothermal Research, 313, 1–14. (2016).

Tawfiek, A. M.; Guanheng TAN; Ali G. Hafez; Abdullah Al-Amri; N. Al Arifi and K. Abdelrahman (2016): Automatic identification of fake pattern caused by short-width wavelets in seismic data. Arab J. Geosci 9: 580. DOI 10.1007/s12517-016-278-4 (2016).

Al-Amri, A. & Fnais, M.& Kamal Abdelrahman & Abdelmoneim, E.& Alqarni, H. New methods to improve the assessment of shear wave velocities and seismic hazard parameters in Jeddah city, western Saudi Arabia. Arab J. Geosci (2016) 9:220. DOI 10.1007/s12517-015-2297-2 (2016).

Konrad, K., Graham, D.W., Thornber, C.R., Duncan, R.A., Kent, A.J.R., & Al-Amri, A.Asthenosphere-Lithosphere Interactions in Western Saudi Arabia: Inferences from ^{3}He / ^{4}He in Xenoliths and Lava Flows from Harrat Hutaymah, Lithos, 248–251, 339–352. (2016)

Gok, Rengin , Ayoub Kaviani, Eric Matzel, Michael Pasynanos, Kevin Mayeda, Gurban Yetirmishli, Issa El-Hussain, Abdullah Al-Amri, Farah Al-Jeri, Tea Godoladze, Dogan William R. Walter. Moment Magnitudes of Local/Regional Kalafat, Eric Sandvol, and Events from 1D Coda Calibrations in the Broader Middle East Region. Bulletin of the Seismological Society of America, Vol. 106, No. 5, pp. –,October 2016, doi: 0.1785/0120160045. (2016).

2017 - 2020

Abdullah Al Amri, K. Abdelrahman, M.O. Andreae and M. Al-Dabbagh: Crustal and upper mantle structures beneath the Arabian Shield and Red Sea. Lithosphere dynamics and sedimentary basins of the Arabian Plate and surrounding areas (François Roure et al. Eds.) Springer -Verlag Berlin Heidelberg, (2017).

D.S. Macholdta,b,* , K.P. Jochumb, C. Pöhlkera, A. Arangioc, J.-D. Förstera, B. Stollb, U. Weisb, B. Weberc, M. Müllerd, M. Kappld, M. Shiraiwac,e, A.L.D. Kilcoynef, M. Weigandg, D. Scholzh, G.H. Haugb, Abdullah Al-Amri, M.O. Andreaea,I. Characterization and differentiation of rock varnish typesfrom different environments by microanalytical techniques, Chemical Geology 459 , 91–118 (2017).

Faisal Rehman, Abdullah M. Alamri, Sherif M. El-Hady, Hussein M. Harbi and Ali H. Atef. Seismic Hazard Assessment and Rheological Implications; A Case Study Selected for Cities of Saudi Arabia along the Eastern Coast of Red Sea. Accepted in Arabian Journal of Geosciences September, 2017.

Lang-Yonaa, N., Maier, S., Macholdt, D. S., Müller-Germann, I., Yordanova, P., Rodriguez-Caballero, E., Jochum, K.-P., Andreae, M. O., Al-Amri, A., Pöschl, U., Weber, B., and Fröhlich-Nowoisky, J., Desert Varnish Formation: In-depth Examination of Metagenome Shades Light on the Microbial Involvement: Microbial Ecology, Accepted in 2017.

Otter, L. M., Macholdt, D. S., Jochum, K. P., Stoll, B., Weis, U., Weber, B., Scholz, D., Al-Amri, A.M., Haug, G. H., and Andreae, M. O., The Relationship of Rock Varnish and Adjacent Mineral Dust in Arid and Semi-Arid Environments: Geochim. Cosmochim. Acta, accepted in 2017.

A.K. Abdelfattah, A. M. Al-Amri, A. K. Abd el aal, F. Zaidi, M. Fnais, S. Madani and N Al -Arifi. The 23 January 2014 Jizan earthquake and its tectonic implications in southwestern Saudi Arabia. Tectonophysics, No. 712-713 (2017), 494-502.

Sattam Almadani, Hussain Alfaifi, Abdullah Al-Amri, Mohamed Fnais, Elkhedr Ibrahim, Kamal Abdelrahman, Mohammed Shehata and Faisal Zaidi (2017): Hydrochemical haracteristics and evaluation of the granite aquifer in the Alwadeen area, southwest Saudi Arabia. Arab J Geosci (2017) 10:139. DOI 10.1007/s12517-017-2873-8.

Kamal Abdelrahman, Abdullah Al-Amri, Nassir Al-Arifi and Enayat Abdemoneim (2017): Seismic Risk Assessment at the Proposed Site of Gemsa Wind Power Station, Southwestern Coast of Gulf of Suez, Egypt. Journal Geological Society of India, Vol.89, February 2017, Pp.192-196.

Abdullah Alamri , Robert Duncan , Adam Kent , Fouzan Alfouzan, Geochemical and Geophysical Evolution of Regional Mantle Flow Beneath Volcanic Harrats in Western Arabian Shield. 1st Conference of the Arabian J. of Geosciences, Hammamet, Tunisia, 2018.

Abdullah Al-Amri, Robert Mellors , David Harris, Vector Camp, Kamal El- Sayed Geothermal and Volcanic Evaluation of Harrat Rahat, Northwestern Arabian Peninsula. 1st Conference of the Arabian J. of Geosciences, Hammamet, Tunisia, 2018.

Lang-Yona, N., Maier, S., Macholdt, D. S., Mueller-Germann, I., Yordanova, P., Rodriguez-Caballero, E., Jochum, K. P., Al-Amri, A., Andreae, M. O., Froehlich-Nowoisky, J., and Weber, B., Insights into microbial involvement in desert varnish formation retrieved from metagenomic analysis: Environmental Microbiology Reports, 10, 264-271, doi:10.1111/1758-2229.12634, 2018.

Macholdt, D. S., Al-Amri, A. M., Tuffaha, H. T., Jochum, K. P., and Andreae, M. O., Growth of desert varnish on petroglyphs from Jubbah and Shuwaymis, Ha'il region, Saudi Arabia: The Holocene, 28, 1495-1511, doi:10.1177/0959683618777075, 2018.

Macholdt, D. S., Jochum, K. P., Al-Amri, A., and Andreae, M. O., Petroglyphs from the Hima region, southwestern Saudi Arabia: growth rates, engraving ages, and growth mechanisms: Scientific Reports, 2018, submitted.

Otter, L. M., Macholdt, D. S., Jochum, K. P., Stoll, B., Weis, U., Weber, B., Scholz, D., Al-Amri, A. M., Haug, G. H., and Andreae, M. O., The Relationship of Rock Varnish and Adjacent Mineral Dust in Arid and Semi-Arid Environments: Geochim. Cosmochim. Acta, 2018, under review.

Kamal Abdelrahman, Abdullah Al-Amri, Naif Al-Otaibi, Mohammed Fnais, Enayat Abdelmonem (2018): Ground motion acceleration and response spectra of Al-Mashair area, Makkah Al-Mukarramah, Saudi Arabia. Accepted in Arabian Journal of Geosciences.

A.K. Abdelfattah, A. Al-Amri, A.K. Abd el-aal, Faisal K. Zaidi, M. Fnais, S. Almadani, N. Al-Arif (2018): The 23 January 2014 Jizan earthquake and its tectonic implications in southwestern Saudi Arabia. *Tectonophysics* 712– 713 (2017) 494–502.

Ali K. Abdelfattah, Sattam Almadani, Mohamad Fnais, Hussain J. Alfaifi, Nassir Al-Arif, Abdullah Al-amri, Basem Al-Qadasi, Salvatore de Lorenzo (2019): Rupture characteristics of a small-sized earthquake (MW 4.2), onshore the south Red Sea, Saudi Arabia. *Journal of African Earth Sciences* 151 (2019) 315–323

Maher Ibrahim Sameen, Raju Sarkar, Biswajeet Pradhan, Dowchu Drukpa, Abdullah M. Alamri, and Hyuck-Jin Park. Landslide spatial modelling using unsupervised factor optimization and regularized greedy forests. *Computers & Geosciences* 2019, doi 10.1016.

Maher Ibrahim Sameen, Biswajeet Pradhan, Dieu Tien Bui and Abdullah M. Alamri. Systematic sample subdividing strategy for training landslide susceptibility models. *CATENA*, 2019, doi.org/10.1016/j.catena.2019.104358

Ryan Cheah, Lawal Billa, Andy Chan, Fang Yenn Teo, Biswajeet Pradhan, and Abdullah M. Alamri. Geospatial Modelling of Watershed Peak Flood Discharge in Selangor, Malaysia. *Water* 2019, 11, 2490; doi:10.3390/w11122490.

<https://doi.org/10.3390/w11122611>

Bahram Saeidian, Mohammad Saadi Mesgari, Biswajeet Pradhan and Abdullah M. Alamri Irrigation Water Allocation at Farm Level Based on Temporal Cultivation-Related Data Using Meta-Heuristic Optimization Algorithms. *Water* 2019, 11, 2611; doi:10.3390/w11122611

Kamal Abdelrahman, Abdullah Al-Amri, Naif Al-Otaibi, Mohammed Fnais and Enayat Abdelmonem (2019): Ground motion acceleration and response spectra of Al-Mashair area, Makkah Al-Mukarramah, Saudi Arabia. *Arabian Journal of Geosciences*, 12:346, <https://doi.org/10.1007/s12517-019-4526-6>

Sattam Almadani, Elkhedr Ibrahim, Abdullah Al-Amri, Mohammed Fnais and Kamal Abdelrahman (2019): Delineation of a fractured granite aquifer in the Alwadeen area, Southwest Saudi Arabia using a geoelectrical resistivity survey. *Arabian Journal of Geosciences*, 12:449. <https://doi.org/10.1007/s12517-019-4646-z>

Macholdt, D. S., Jochum, K. P., Al-Amri, A., and Andreae, M. O., Rock varnish on petroglyphs from the Hima region, southwestern Saudi Arabia: Chemical composition, growth rates, and tentative ages: *The Holocene*, 29, 1377 –1395, doi:10.1177/0959683619846979, 2019.

Abdullah M. Al-Amri & Kamal Abdelrahman & Robert Mellors & David Harris (2020): Seismic identification of geothermal prospecting in Harrat Rahat, Northern Arabian Shield. *Arabian Journal of Geosciences* (2020) 13:314
<https://doi.org/10.1007/s12517-020-05300-2>

Abdullah M. Al-Amri & Kamal Abdelrahman & Robert Mellors & David Harris (2020): Geothermal potential of Harrat Rahat, Northern Arabian Shield: geological constraints. *Arabian Journal of Geosciences* (2020) 13:268
<https://doi.org/10.1007/s12517-020-5254-7>

Abdullah M. Alamri & Abdalaziz Bankher & Kamal Abdelrahman & Mahmoud El-Hadidy & Hani Zahran (2020): Soil site characterization of Rabigh city, western Saudi Arabia coastal plain, using HVSR and HVSR inversion techniques. *Arabian Journal of Geosciences*, 13:29 <https://doi.org/10.1007/s12517-019-5027-3>

Kamal Abdelrahman, Abdullah Alamri, Naif Al-Otaibi, Mohammed Fnais (2020): Geotechnical assessment for the ground conditions in Makah Al-Mukarramah city, Saudi Arabia. *Journal of King Saud University–Science*.
<https://doi.org/10.1016/j.jksus.2020.02.011>

Andreae, M. O., Al-Amri, A., Andreae, C. M., Guagnin, M., Haug, G., Jochum, K. P., Stoll, B., and Weis, U., Archaeometric studies on petroglyphs and rock varnish at Kilwa and Sakaka, northern Saudi Arabia: *Arabian Archaeology and Epigraphy*, in press, 2020.

Andreae, M. O., Al-Amri, A., Andreae, T. W., Garfinkel, A., Haug, G., Jochum, K. P., Stoll, B., and Weis, U., Geochemical studies on rock varnish and petroglyphs in the Owens and Rose Valleys, California: *PLoS ONE*, 15, e0235421, doi:10.1371/journal.pone.0235421, 2020.

Andreae, M. O., Al-Amri, A., Al-Jibrin, F. H., and Al-Sharek, A., Archaeometric studies on rock art at Musayqira, central Saudi Arabia: *Arabian Archaeology and Epigraphy*, in preparation, 2020.

Otter, L. M., Macholdt, D. S., Jochum, K. P., Stoll, B., Weis, U., Weber, B., Scholz, D.,

Haug, G. H., Al-Amri, A. M., and Andreae, M. O., Geochemical insights into the relationship of rock varnish and adjacent mineral dust fractions: Chemical Geology, 551, 119775, doi:10.1016/j.chemgeo.2020.119775, 2020.

Maher Ibrahim Sameen, Raju Sarkar, Biswajeet Pradhan, Dowchu Drukpa, Abdullah M. Alamri, Hyuck-Jin Park. 2020. Landslide spatial modelling using unsupervised factor optimization and regularized greedy forests. Computers & Geosciences, Volume 134, January 2020, 104336. <https://doi.org/10.1016/j.cageo.2019.104336>

Maher Ibrahim Sameen, Biswajeet Pradhan, Dieu Tien Bui, Abdullah M. Alamri. 2020. Systematic sample subdividing strategy for training landslide susceptibility models. CATENA Volume 187, April 2020, 104358. <https://doi.org/10.1016/j.catena.2019.104358>

Saeidian, B.; Mesgari, M.S.; Pradhan, B.; Alamri, A.M. Irrigation Water Allocation at Farm Level Based on Temporal Cultivation-Related Data Using Meta-Heuristic Optimisation Algorithms. Water 2019, 11, 2611. <https://doi.org/10.3390/w11122611>

Jena, R., Pradhan, B., Beydoun, G., Alamri, A., Sofyan, H. Seismic hazard and risk assessment: a review of state-of-the-art traditional and GIS models. Arab J Geosci 13, 50 (2020). <https://doi.org/10.1007/s12517-019-5012-x>

Jena, R., Pradhan, B. & Alamri, A.M. Geo-structural stability assessment of surrounding hills of Kuala Lumpur City based on rock surface discontinuity from geological survey data. Arab J Geosci 13, 95 (2020). <https://doi.org/10.1007/s12517-020-5057-x>

Hakdaoui, S.; Emran, A.; Pradhan, B.; Qninba, A.; Balla, T.E.; Mfondoum, A.H.N.; Lee, C.-W.; Alamri, A.M. Assessing the Changes in the Moisture/Dryness of Water Cavity Surfaces in Imlili Sebkha in Southwestern Morocco by Using Machine Learning Classification in Google Earth Engine. Remote Sens. 2020, 12, 131. <https://doi.org/10.3390/rs12010131>

Dikshit, A.; Sarkar, R.; Pradhan, B.; Jena, R.; Drukpa, D.; Alamri, A.M. Temporal Probability Assessment and Its Use in Landslide Susceptibility Mapping for Eastern Bhutan. Water 2020, 12, 267. <https://doi.org/10.3390/w12010267>

Ghasemkhani, N.; Vayghan, S.S.; Abdollahi, A.; Pradhan, B.; Alamri, A. Urban Development Modeling Using Integrated Fuzzy Systems, Ordered Weighted Averaging (OWA), and Geospatial Techniques. Sustainability 2020, 12, 809. <https://doi.org/10.3390/su12030809>

Abraham, M.T.; Satyam, N.; Pradhan, B.; Alamri, A.M. Forecasting of Landslides Using Rainfall Severity and Soil Wetness: A Probabilistic Approach for Darjeeling Himalayas. *Water* 2020, 12, 804. <https://doi.org/10.3390/w12030804>

Mehrabi, M.; Pradhan, B.; Moayedi, H.; Alamri, A. Optimizing an Adaptive Neuro-Fuzzy Inference System for Spatial Prediction of Landslide Susceptibility Using Four State-of-the-art Metaheuristic Techniques. *Sensors* 2020, 20, 1723. <https://doi.org/10.3390/s20061723>

Dikshit, A.; Sarkar, R.; Pradhan, B.; Segoni, S.; Alamri, A.M. Rainfall Induced Landslide Studies in Indian Himalayan Region: A Critical Review. *Appl. Sci.* 2020, 10, 2466. <https://doi.org/10.3390/app10072466>

Abdollahi, A.; Pradhan, B.; Shukla, N.; Chakraborty, S.; Alamri, A. Deep Learning Approaches Applied to Remote Sensing Datasets for Road Extraction: A State-Of-The-Art Review. *Remote Sens.* 2020, 12, 1444. <https://doi.org/10.3390/rs12091444>

Abraham, M.T.; Satyam, N.; Pradhan, B.; Alamri, A.M. IoT-Based Geotechnical Monitoring of Unstable Slopes for Landslide Early Warning in the Darjeeling Himalayas. *Sensors* 2020, 20, 2611. <https://doi.org/10.3390/s20092611>

Dikshit, A.; Sarkar, R.; Pradhan, B.; Acharya, S.; Alamri, A.M. Spatial Landslide Risk Assessment at Phuentsholing, Bhutan. *Geosciences* 2020, 10, 131. <https://doi.org/10.3390/geosciences10040131>

Pradhan, B.; Al-Najjar, H.A.H.; Sameen, M.I.; Tsang, I.; Alamri, A.M. Unseen Land Cover Classification from High-Resolution Orthophotos Using Integration of Zero-Shot Learning and Convolutional Neural Networks. *Remote Sens.* 2020, 12, 1676. <https://doi.org/10.3390/rs12101676>

Fanos, A.M.; Pradhan, B.; Alamri, A.; Lee, C.-W. Machine Learning-Based and 3D Kinematic Models for Rockfall Hazard Assessment Using LiDAR Data and GIS. *Remote Sens.* 2020, 12, 1755. <https://doi.org/10.3390/rs12111755>

Saha, S.; Saha, A.; Hembram, T.K.; Pradhan, B.; Alamri, A.M. Evaluating the Performance of Individual and Novel Ensemble of Machine Learning and Statistical Models for Landslide Susceptibility Assessment at Rudraprayag District of Garhwal Himalaya. *Appl. Sci.* 2020, 10, 3772. <https://doi.org/10.3390/app10113772>

Dikshit, A.; Pradhan, B.; Alamri, A.M. Temporal Hydrological Drought Index Forecasting for New South Wales, Australia Using Machine Learning Approaches. *Atmosphere* 2020, 11, 585. <https://doi.org/10.3390/atmos11060585>

Shukla, N.; Pradhan, B.; Dikshit, A.; Chakraborty, S.; Alamri, A.M. A Review of Models Used for Investigating Barriers to Healthcare Access in Australia. *Int. J. Environ. Res. Public Health* 2020, 17, 4087. <https://doi.org/10.3390/ijerph17114087>

Dikshit, A.; Pradhan, B.; Alamri, A.M. Short-Term Spatio-Temporal Drought Forecasting Using Random Forests Model at New South Wales, Australia. *Appl. Sci.* 2020, 10, 4254
<https://doi.org/10.3390/app10124254>

Tempa, K.; Sarkar, R.; Dikshit, A.; Pradhan, B.; Simonelli, A.L.; Acharya, S.; Alamri, A.M. Parametric Study of Local Site Response for Bedrock Ground Motion to Earthquake in Phuentsholing, Bhutan. *Sustainability* 2020, 12, 5273. <https://doi.org/10.3390/su12135273>

B. Pradhan, H. A. H. Al-Najjar, M. I. Sameen, M. R. Mezaal and A. M. Alamri, "Landslide Detection Using a Saliency Feature Enhancement Technique From LiDAR-Derived DEM and Orthophotos," in *IEEE Access*, vol. 8, pp. 121942-121954, 2020,
<https://doi.org/10.1109/ACCESS.2020.3006914>

Ghosh, S.; Das, A.; Hembram, T.K.; Saha, S.; Pradhan, B.; Alamri, A.M. Impact of COVID-19 Induced Lockdown on Environmental Quality in Four Indian Megacities Using Landsat 8 OLI and TIRS-Derived Data and Mamdani Fuzzy Logic Modelling Approach. *Sustainability* 2020, 12, 5464. <https://doi.org/10.3390/su12135464>

Das, S.; Pradhan, B.; Shit, P.K.; Alamri, A.M. Assessment of Wetland Ecosystem Health Using the Pressure–State–Response (PSR) Model: A Case Study of Mursidabad District of West Bengal (India). *Sustainability* 2020, 12, 5932.
<https://doi.org/10.3390/su12155932>

Jena, R.; Pradhan, B.; Alamri, A.M. Susceptibility to Seismic Amplification and Earthquake Probability Estimation Using Recurrent Neural Network (RNN) Model in Odisha, India. *Appl. Sci.* 2020, 10, 5355. <https://doi.org/10.3390/app10155355>

Jena, R.; Pradhan, B.; Al-Amri, A.; Lee, C.W.; Park, H.-J. Earthquake Probability Assessment for the Indian Subcontinent Using Deep Learning. *Sensors* 2020, 20, 4369.

<https://doi.org/10.3390/s20164369>

Ratiranjan Jena, Biswajeet Pradhan, Ghassan Beydoun, Abdullah M. Alamri, Ardiansyah, Nizamuddin, Hizir Sofyan. Earthquake hazard and risk assessment using machine learning approaches at Palu, Indonesia. *Science of The Total Environment*, Volume 749, 20 December 2020, 141582. <https://doi.org/10.1016/j.scitotenv.2020.141582>

Abhirup Dikshit, Biswajeet Pradhan, Abdullah M. Alamri. Pathways and challenges of the application of artificial intelligence to geohazards modelling, *Gondwana Research*, 2020,

<https://doi.org/10.1016/j.gr.2020.08.007>

Sahoo, S., Dhar, A., Debsarkar, A. Pradhan, B., Alamri, A. Future Water Use Planning by Water Evaluation and Planning System Model. *Water Resour Manage* (2020).

<https://doi.org/10.1007/s11269-020-02680-8>

A. Abdollahi, B. Pradhan and A. Alamri, "VNet: An End-to-End Fully Convolutional Neural Network for Road Extraction From High-Resolution Remote Sensing Data," in *IEEE Access*, vol. 8, pp. 179424-179436, 2020, <https://doi.org/10.1109/ACCESS.2020.3026658>

Abhirup Dikshit, Biswajeet Pradhan, Abdullah M. Alamri. Long lead time drought forecasting using lagged climate variables and a stacked long short-term memory model. *Science of The Total Environment*, Volume 755, Part 2, 2021, 142638,

<https://doi.org/10.1016/j.scitotenv.2020.142638>

Ahmed, J.B., II; Salisu, A.; Pradhan, B.; Alamri, A.M. Do Termitaria Indicate the Presence of Groundwater? A Case Study of Hydrogeophysical Investigation on a Land Parcel with Termite Activity. *Insects* 2020, 11, 728. <https://doi.org/10.3390/insects11110728>

Scientific Issues & Authorship

1. Earthquakes (2014). Saudi Society of Geosciences, King Saud University, 40 pages.
2. Seismotectonics of the Arabian Peninsula (2014). Saudi Society of Geosciences, King Saud University, 32 pages.
3. Seismic Hazards & Mitigation (2014). Saudi Society of Geosciences, King Saud University, 36 pages.
4. Tsunami (2014). Saudi Society of Geosciences, King Saud University, 28 pages.
5. Earth's Gravity & Applications (2014). Saudi Society of Geosciences, King Saud University, 40 pages.
6. Volcanoes (2014). Saudi Society of Geosciences, King Saud University, 38 pages.
7. 321 Questions & Answers in Origin and Evolution of the Earth (2020). Saudi Society of Geosciences, king Saud University, 154 Pages.
8. 358 Questions & Answers in Petrology, Geochemistry & remote Sensing (2020). Saudi Society of Geosciences, king Saud University, 154 Pages.
9. 358 Questions & Answers in Natural Resources (2020). Saudi Society of Geosciences, king Saud University, 164 Pages.
10. 380 Questions & Answers in Geologic Hazards (2020). Saudi Society of Geosciences, king Saud University, 166 Pages.
11. 303 Questions & Answers in Earthquakes & Engineering Seismology (2020). Saudi Society of Geosciences, king Saud University, 162 Pages.
12. 300 Questions & Answers in Applied Geophysics (2020). Saudi Society of Geosciences, king Saud University, 144 Pages.

13. General Geology (2020). Saudi Society of Geosciences, king Saud University, 496 Pages.
14. Seismic Zonation (2006). Saudi Society of Geosciences, king Saud University, 450 .
- Pages.
15. Earthquake Database (2004). Saudi Society of Geosciences, king Saud University, 50
- Pages.



Technical Reports

- TR. 1 : Alamri, A.M., (1998). Earthquake Database of the Arabian Peninsula. KSU
- TR. 2 : Alamri, A.M. and Benito Punsolan (2000). Manual of Earthquake Monitoring. KSU
- TR. 3 : Alamri, A.M. and Rajeh Alzaid (2003). Seismic Hazard Analysis. KSU.
- TR. 4 : Alamri, A.M., (2004). Seismic Zones Regionalization of the Arabian Peninsula. KSU
- TR. 5 : Alamri, A.M., Al-Othman, A. and Fnais, M. (2005). Natural Purification by Sediments of Wadi Hanifah, Water System, Riyadh, KSU, TR- DSR-68.
- TR. 6 : Al-Amri, A., M. Homaidah and A. Khalil.(2007). Site Response Effect and Microzonation of Almalqa Area, NW Riyadh. Wilbur Smith Associates.
- TR. 7 : Yongcheol Park, Andrew Nyblade, Arthur Rodgers, and Abdullah Al-Amri (2005), Tomographic Imaging of Upper Mantle P and S-wave Velocity Heterogeneity Beneath the Arabian Peninsula, UCRL-TR-214906.
- TR. 8 : Al-Amri, A.M. (2008). Seismographic Networks in Saudi Arabia. KSU.
- TR. 9 : Arthur J. Rodgers, Hrvoje Tkalcic, and Abdullah M. S. Al-Amri (2006). Data Collection in The Arabian Peninsula for Nuclear Explosion Monitoring. 25th Seismic Research Review – Nuclear Explosion Monitoring: Building the Knowledge Base. Contract No. W-7405-Eng- 48 and DE-FC03-01SF22418.
- TR 10 : Arthur J. Rodgers and Abdullah M. S. Al-Amri. (2007). Seismic Data for Nuclear Explosion Monitoring in the Arabian Peninsula. 26th Seismic Research Review – Trends in Nuclear Explosion Monitoring. Contract No. W-7405-ENG-48, DE-FC03-01SF22418
- TR 11 : Al-Amri, .M. (2013). Magnetotelluric Investigation of Deep Aquifers in Rub Al Khali, Saudi Arabia. Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ).

Projects Funded by King Abdulaziz City for Science & Technology

1. Mokhtar,T., Maamoun,M., and Al-Amri,A.M. (1990). Seismic structure of the Arabian Peninsula from surface waves. King Abdulaziz City For Science and Technology (AR 10- 48).
2. Al-Amri,A., Neciglu,A. and Mokhtar,T.A. (1993). An investigation of crustal and upper mantle structure beneath Riyadh Region from spectral analysis of long-period P-wave data. King Abdulaziz City for Science and Technology (AR- 13-46).
3. Al-Haddad,M., Al-Refeai,T., and Al-Amri,A.M. (1994). Geotechnical investigation for earthquake resistant design in the western coast of Saudi Arabia. King Abdulaziz City for Science and Technology (AR- 14-77).
4. Al-Harbi, O., Al-Amri,A., Al-Turbak,A., Sheikho,K., and Al-Abdulaaly, A. (1995). An Investigation of the geophysical and hydrogeological characteristics of the NW part of Al-Madinah area. King Abdulaziz City for Science and Technology (AR- 15-5).
5. Al-Amri, A. and Alkhalfah, T. (2003). Improving Seismic Hazard Assessment in Saudi Arabia Using Earthquake Location and Magnitude Calibration. King Abdulaziz City for Science & Technology, AR- 22- 68.
6. Al-Amri, A. and Alkhalfah, T. (2004). Crustal and Upper Mantle Structure of the Arabian Shield and Red Sea. King Abdulaziz City for Science & Technology, AR- 23- 40.
7. Al-Amri, A. and Almogren S. (2008). A Seismo-volcanic Investigation of the Current Activity in Harrat Lunayyir, Al-Madinah Al-Munawwarah area (AR 28-95).
8. Al-Amri, A. (2010). Joint Inversion of P- and S-Wave Receiver Functions and Dispersion Velocities: A New Technique for Determining Detailed Lithospheric Structure in the Arabian Shield (AR 30-36).
9. Al-Amri, A. and Al-Fouzan, F. (2014). Geochemical and Geophysical Evolution of Regional Mantle Flow Beneath Volcanic Harrats in Western Arabian Shield (AR 33-14).

Projects Funded by National Plan for Science & Technology (NPST)

1. Broadband Seismic Characterization of the Arabian Peninsula using 3-Component Seismic Array 08 - ENV516-2
2. New Methods to Improve Seismic Ground Motion Predictions and Seismic Hazard in Saudi Arabia. 09 – INF 945-02
3. Seismic Microzonation and Site Effect Response of Dammam and Alkhobar Cities- Eastern Saudi Arabia. 08-SPA 239-2
4. Advanced – technology applications for natural resources degradation assessment and their environmental impacts on Riyadh City. 12- ENV 2519-02
5. Environmental hazard assessment of the Makkah region from seismic microzoning and soil effect responses. 11-ENV-1902-02
6. Geothermal and Volcanic Evaluation of Harrat Rahat, NW Arabian Peninsula. 12-SPA-2802

Projects Funded by Various Sectors

1. Al-Amri ,A.M and Kebeasy, R.M (1991) . An investigation of the seismic ground motion in Qurayyat and Jizan regions, Saudi Arabia. ARECSON.
2. Al-Qadhi, A., Al-Dail, M., Al-Amri, A., Shaath, N., and Hussain, M. (1994) . An investigation of recent seismic activity in Makkah region . King Abdulaziz City for Science and Technology.
3. Al-Amri, A. (2003). Saudi Arabian Earthquake Database. Seismic Studies Center, King Saud University, Riyadh, Saudi Arabia.
4. Al-Haddad, M. Al-Zaid, R. Arafah, A. and Al-Amri, A. (2002). Study in Seismic Zonation and Parameters For Saudi Aramco Facilities.(Western coast) Contract No. 51096/00.
5. Al-Haddad, M. Al-Zaid, R. Arafah, A. and Al-Amri, A. (2004). Study in Seismic Zonation and Parameters For Saudi Aramco Facilities.(Eastern coast).
6. Al-Amri, A. (2005). Seismic Zones in The Arabian Peninsula and Adjacent regions.

7. Al-Amri, A.M. (1994). Groundwater resources evaluation of Wadi Ranyah area,, central Saudi Arabia. Ministry of Defense and Aviation.
8. Al-Amri, A.M. (1994) . The geophysical and hydrogeological characteristics of Wadi Damad, Sabya, and Nakhlan, southern Red Sea coast. Ministry of Agriculture.
9. Al-Dail, M., Al-Amri, A. and Turbak, A. (1997). Groundwater Investigation of Al- Madinah area,Northwestern Saudi Arabia, King Abdulaziz City for Science and Technology.
10. Al-Amri, A., Barazangi, A. and Al-Othman, A. (2003). Natural Purification and the removal of pollutants- A case study of Wadi Hanifah, Riyadh region. King Saud University (DSR- 68).
11. Al-Amri, A. Idriss, A. and Loni, O. (2005). Groundwater Potentially in Shaib Al-Haysiyah - NW Riyadh. Ministry of Agriculture.
12. Al-Amri, A. and Loni, O. (2006). Hydrogeological and Environmental Evaluation of Al-Ardah- Jizan Area RAE consultancy for Environmental Services, Riyadh.
13. Al-Amri, A. and Loni, O. (2006). Hydrogeological and Environmental Evaluation of Tayma area- Tabuk. RAE consultancy for Environmental Services, Riyadh.
14. Al-Amri, A. and Loni, O. (2006). Hydrogeological and Environmental Evaluation of Al-Majmaah area. RAE consultancy for Environmental Services, Riyadh.
15. Al-Amri, A. and Loni, O. (2006). Hydrogeological and Environmental Evaluation of Turaif- Northern Saudi Arabia. RAE consultancy for Environmental Services, Riyadh.
16. Al-Amri, A. and Al-Harbi, A. (2007). Groundwater Potentially in Wadi Malakan-Makkah area. Dept. of Geology, King Saud University, Riyadh.
17. Al-Amri, A. and Loni, O. (2007). Geological and Hydrogeological Investigation of the Ras Az Zawr- Eastern Region-Saudi Arabia. RAE consultancy for Environmental Services, Riyadh.
18. Al-Amri, A. (2008) Geophysical Study of 231 dams in Saudi Arabia, & Ministry of Water & Electricity. 19. Al-Amri, A. (2013). Groundwater Exploration in Empty Quarter Using MagnetoTelluric Techniques. Ministry of Water & Electricity, Riyadh.

Projects Funded by International Agencies

1. Project : Establishing global Seismographic Network (GSN) in Rayn, Saudi Arabia
Investigators : Abdullah Al-Amri, Jon Berger, Frank Vernon, Peter Davis Funding Source : IRIS, Univ. of California, San Diego, Period : 1996 - Now
2. Project : Broadband Seismic-Acoustic Array on the Arabian Shield Broadband Investigators : Abdullah Al-Amri, Frank Vernon, Jon Berger, Danny Harvey Funding Source : US Air Force, Dept. of Energy (DOE), UCSD, Period : 1997 - 2000
3. Project : Broadband Seismic Characterization of the Arabian Shield Investigators : Abdullah Al-Amri , Arthur Rodgers Funding Source : Lawrence Livermore National Lab. (LLNL), Period : 2000 - 2001
4. Project : Ground Truth Event and Waveform Data Collection for Seismic Calibration of the Arabian Peninsula and Surrounding Regions Investigators : Abdullah Al-Amri , Arthur Rodgers Funding Source : DOE and LLNL, Period : 2001 - 2003
5. Project : Broadband Seismic Station Deployment at Hadabat Al-Mahri, Halban, Investigators : Arthur Rodgers, Abdullah Al-Amri , Jon P. Lewis Funding Source : UCRL – ID-147211, Period : 2001-2003
6. Project : Ground Truth Location & Magnitude Calibration Investigators : Abdullah Al-Amri, Arthur Rodgers , Tariq Al-Khalifah Funding Source : KACST & DOE, Period : 2003 -2005
7. Project : Upper Mantle Crustal Structures of the Arabian Peninsula and Red Sea Investigators : Abdullah Al-Amri, Arthur Rodgers , Tariq Al-Khalifah, Andy Nyblade Funding Source : KACST, LLNL, Penn. State Univ., Period : 2005 - 2007
8. Project : Shear-Wave Splitting and Seismic anisotropy in the Arabian Shield Investigators : S. Hansen, Arthur Rodgers and Abdullah Al-Amri Funding Source : Univ. of California, Santa Cruz., Period : 2006 – 2008
9. Project : Investigating the P-wave Velocity Structure beneath Harrat Lunayyir Investigators : S. Hansen, and Abdullah Al-Amri Funding Source : Univ. of Alabama., Period : 2011 – 2012
10. Project : Lithospheric structure of the Arabian Shield from Joint Inversion Investigators : Andrew Nyblade and Abdullah Al-Amri Funding Source : Pennsylvania State Univ., Period : 2012 – 2013

11. Project : Seismic Array of Ar Rayn Area. Investigators : Abdullah Al-Amri, Arthur Rodgers and Dave Harris Funding Source : Lawrence Livermore National Lab. (LLNL), Period : 2011-2013

12. Project : Seismic Array of Al-Quwayeah Area. Investigators : Abdullah Al-Amri and Rengin Gok Funding Source : Lawrence Livermore National Lab. (LLNL) , Period : 2013- 2016

Al-Amri Encyclopedia of Geosciences

Al-Amri's Digital Encyclopedia was issued in January 2018 in **14** volumes and **107** files in Arabic and English to serve researchers in Geosciences, school students, universities and community groups. It included **7** scientific educational books, **4** university courses, **80** scientific referred papers, **22** completed and proposed research projects, **64** technical and applied reports on earthquakes and their hazards, building specifications, groundwater exploration and mining investment. As well as ways to cope with disasters and management and the media and psychological aspects of the role of the sectors in reducing the damage. The Encyclopedia also contained **400** questions and answers in the earth sciences to facilitate university students. The encyclopedia is freely distributed and can be obtained directly from the author or from the secretariat of the Saudi Society for Geosciences.

<https://www.dropbox.com/sh/skqci7ajxa8uc5d/AAB2qobEJMwFFy6TmGrPx4KMa?dl=0>



International Cooperation

NO.	Institution	Researchers
1.	Scripps Institution of Oceanography. Univ. of California , San Diego	Dr. Jon Berger, Dr. Frank Vernon, Dr. Peter Davis
2.	Lawrence Livermore National Laboratory	Dr. Arthur Rodgers, Dr. H. Tkalcic
3.	Univ. of California, Santa Cruz	Dr. Samathna Hansen, Dr. S. Schwartz
4.	Pennsylvania State Univ.	Dr. Andy Nyblade, Dr. Y. Park
5.	San Diego State Univ.	Dr. R. Mellors
6.	Boise State Univ., Idaho	Dr. James Zollweg
7.	Univ. of Colorado	Dr. Danny Harvey
8.	Incorporated Research Institutions for Seismology (IRIS)	Dr. David Simpson
9.	Univ. of Alabama	Dr. Samantha Hansen
10.	Oregon State University, Corvallis	Dr. Robert Duncan
11.	Lawrence Livermore National Laboratory, USA	Dr. Rengin Gok, Dr. Robert Mellors, Dr. Dave Harris
12.	Universidade Federal do Rio Grande do Norte, Brazil	Dr. Jordi Julia
13.	Max Planck Institute, Mainz, Germany	Dr. Meinrat Andreae

Conferences & Workshops

Participation	No.
Domestic Conferences	25
International Conferences	70
Domestic Workshops	20
Workshops RELEMR	28
Gulf Seismic Forum	10