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| **بسم الله الرحمن الرحيم****السيرة الذاتية**سعد مقرن عبد العزيز المقرندكتوراه في الجيوفيزياء من جامعه نيوكاسل ببريطانيا 2004م بكالوريوس في الجيوفيزياء جامعة الملك سعود تاريخ 1991مأستاذ دكتور في تخصص الجيوفيزياء بجامعة الملك سعود |
| **السيرة العلمية:** * + - من تاريخ 2005 م إلى 2010 م أستاذ مساعد في تخصص الجيوفيزياء (الجاذبية و المغناطيسية الارضية ) جامعة الملك سعود. اضافة الى:
		- الاشراف على نظم المعلومات الجغرافية (GIS) بقسم الجيولوجيا و الجيوفيزياء.
		- الاشراف على وحدة التقويم و الاعتماد الأكاديمي بكلية العلوم.
		- رئيس قسم الجيولوجيا و الجيوفيزياء من تاريخ 2010 م إلى الوقت 2012 م
		- ترقية أستاذ مشارك 2016 م
		- وكيل امارة جازان 2015م الى 2017م
		- أستاذ مشارك من 2017 الى 2021
		- استاذ دكتور قسم الجيولوجيا و الجيوفيزياء من تاريخ 2021 م إلى الوقت الحالي

**أنشطة خدمة المجتمع :*** تدريب مستمر لمجموعة من ضباط قوة الصواريخ الاستراتيجية على اجهزة قياس الجاذبية الارضية من 2007 م - الى الوقت الحاضر.

**الأنشطة البحثية:*** + - تمثيل جامعة الملك سعود في انشاء خريطة لمغناطيسية العالم لعام 2009 م حيث تم معالجة وتحليل مغناطيسية الجزيرة العربية كجزء من خريط العالم المغناطيسية والمشاركة في البحث الناتج من هذا التعاون الدولي بورقة علمية نشرت في مجلة ذات تصنيف ISI: Geochemistry, Geophysics, Geosystems AGU Journal و معامل تأثير هذه المجلة Impact Factor 3.201 واشير الى البحث في 804 ورقة علمية.

**باحث رئيسي في مشاريع الخطة الوطنية للعلوم والتقنية والابتكار التالية:*** Principle Investigator (PI) of the research project entitled: "New approach for identification of potential groundwater zones on the southern Red Sea coast, Saudi Arabia using integrated techniques" Project number WAT922-02. Funded by NPST.
* Principle Investigator (PI) of the research project entitled: " Quasi Geoid of Saudi Arabia: Gravity data and GPS leveling" Project number SPA873-02-09, Funded by NPST.
* Principle Investigator (PI) of the research project entitled: Monitoring of the Al-Ays volcanic activity using microseismicity, TDEM, 4D-microgravity and InSAR Techniques for eruption risk mitigation “NPST project No. : 12-SPA2872-02 for two years.
* Principle Investigator (PI) of the research project entitled:  Exploration of Groundwater Potentialities of The Sinkholes In Rufa Graben, Ar-Riyadh Area, Using Geophysical Techniques” NPST project No.: 12-WAT2867-02 2 years Project Funded by NPST.

 **المهارات العملية:*** + - استخدام أجهزة الرفع الجيوديسي الدقيق بواسطة اجهزة (Lieca Geodetic GPS).
		- استخدام أجهزة المسح الجيوفيزيائي لقياس الجاذبية و المغناطيسية.
		- معالجه و تحليل القراء ت الجيوفيزيائية و الطبوغرافية باستخدام البرامج التالية:
* Geosoft™
* Intrepid™
* GeoModeller
* (GMT ) Generic Mapping Tools على نظام التشغيل (Linux).
	+ - إنشاء قواعد للمعلومات الجيوفيزيائية والطبوغرافية لبعض مناطق المملكة متوافقة مع نظم المعلومات الجغرافية (GIS).
		- تصحيح قراءات الرفع الجيوديسي بواسطة برنامج:
* (SKI™) Static Kinematic post-processing program
	+ - بناء النماذج الجيولوجية التحت سطحية من تحليلات قراءات الجاذبية و المغناطيسية باستخدام برنامج النمذجة:
		- Modelvision™ Pro
		- تحويل المعلومات المكانية القديمة ( مثل خرائط المدن و المخططات الورقية ) من صوريه إلى رقميه (Vectorisation) بواسطة البرامج التالية:
		- Easy Trace Pro
		- R2V™ (Raster to Vector)
		- ArcScan™
		- معالجة الصور الجوية باستخدام برنامج ERDAS Imagine™
		- رسم وتحليل الخرائط و المخططات باستخدام نضام المعلومات الجغرافية ArcGis™

**Published Papers 2023 & 2024**Abdelwahhab, M. A., Radwan, A. A., Nabawy, B. S., **Mogren**, S., Ibrahim, E., Leila, M., & Ramah, M. (2024). Untapped potentials exploration for deep-marine gas-bearing reservoirs: a case study from the Taranaki Basin. *Marine Geophysical Research*, *45*(4), 27.Aboelhassan, N., Tarabees, E., el Bastawesy, M., **Mogren**, S., Nabawy, B. S., Ibrahim, E., & Qadri, S. M. T. (2024). Integrated seismic, petrophysical, and geochemical studies for evaluating the petroleum system of the Upper Bahariya-Abu Roash G sequence in the Karama Field, Abu Gharadig Basin, North Western Desert, Egypt. *Journal of African Earth Sciences*, *219*, 105413.Al Shehri, A., **Mogren**, S., Ibrahim, E., & Zaki, A. (2024). Determination of a gravimetric geoid model for Eastern Province in the Kingdom of Saudi Arabia. *Journal of Applied Geodesy*, *18*(1), 69–84.Azab, A. A., Nabawy, B. S., **Mogren**, S., Saqr, K., Ibrahim, E., Qadri, S. M. T., & Barakat, M. K. (2024). Structural assessment and petrophysical evaluation of the pre-Cenomanian Nubian sandstone in the October Oil Field, central Gulf of Suez, Egypt. *Journal of African Earth Sciences*, *218*, 105351.El-Ashquer, M., Elsaka, B., **Mogren**, S., Abdelmohsen, K., & Zaki, A. (2023). Assessment of changing satellite gravity mission architectures using terrestrial gravity and GNSS-leveling data in the Kingdom of Saudi Arabia. *The Egyptian Journal of Remote Sensing and Space Science*, *26*(2), 285–292.Jallouli, C., Abdelfattah, A. K., El-Waheidi, M. M., Alqaysi, S., **Mogren**, S., & Alzahrani, H. (2023). Geophysical evidences on reactivation of NE faults in southern Arabian Shield and its tectonic implications. *Journal of King Saud University-Science*, *35*(1), 102445.Jallouli, C., Al-Dini, W., **Mogren**, S., & Alzahrani, H. (2024). Weakened continental lithosphere beneath the northern Red Sea inferred from elastic thickness. *Scientific Reports*, *14*(1), 13719.Kassem, A. A., Nabawy, B. S., **Mogren**, S., Abdel-Fattah, M. I., Radwan, A. A., & Ibrahim, E. (2024). Implications of the depositional and diagenetic attributes on the reservoir properties of the siliciclastic mangahewa formation, Taranaki Basin, New Zealand: Integrated petrographical and petrophysical studies. *Marine and Petroleum Geology*, *164*, 106823.Khadragy, A., Ramadan, F., Saad, A., Zahran, H., Nabawy, B. S., & **Mogren**, S. (2024). Integrated Geotechnical, Sedimentological and Shallow Seismic Studies for Construction Purposes in New Cities: A Case Study from Egypt. *Journal Of The Geological Society Of India*, *100*(11), 1589–1602.**Mogren**, S., Mukhopadhyay, M., Mukhopadhyay, B., Varghese, S., & Ibrahim, E. (2024). Crustal rheological properties provide evidence for large-scale heterogeneity in the extended Arabian Shield Crust at the Red Sea Margin. *Acta Geophysica*, 1–15.Mukhopadhyay, M., Mukhopadhyay, B., **Mogren**, S., & Ibrahim, E. (2024). High velocity lower crust with anomalous rheological parameters under the Red Sea Passive Margin, SW Saudi Arabia–insight into the evolution of the Hijaz-Asir Escarpment Zone. *Geophysical Journal International*, *236*(1), 711–726.Mukhopadhyay, M., Mukhopadhyay, B., **Mogren**, S., Nandi, B. K., Varghese, S., & Ibrahim, E. (2023). Geophysical modelling detects an intrusive magmatic body in the lower crust atop an underplated Moho at the Red Sea rifted margin, Central Saudi Arabia. *Journal of African Earth Sciences*, *202*, 104914.Nabawy, B. S., Abd El Aziz, E., **Mogren**, S., Mohamed, A. K., Farag, H., Ibrahim, E., & Qadri, S. M. (2024). Petrophysical Characteristics of the Paleocene Zelten Formation in the Gialo Oil Field, Sirte Basin, Libya. *Natural Resources Research*, 1–32.**Published Papers 2008 & 2022** **Mogren, S.,** Mukhopadhyay, B., Mukhopadhyay, M., Venkatesh, K. D., Ibrahim, E., & Al- Qadasi, B. (2022). Source zone modelling for the Harrat Al-Birk, Red Sea coast: insight from crustal rheological parameters and gravity anomaly interpretation. *Arabian Journal of Geosciences*, *15*(16), 1–18.Mukhopadhyay, M., Mukhopadhyay, B., **Mogren**, S., Nandi, B. K., & Ibrahim, E. (2022). Regional significance of crustal and sub-crustal rheological heterogeneities beneath the Harrat Lunayyir and their continuity into the neighboring harrats, Western Saudi Arabia–Perspectives of the Afar plume activity. *Journal of African Earth Sciences*, *186*, 104432. Ibrahim, E., Arfaoui, M., **Mogren**, S., Qaysi, S., Lashin, A., & Alfaifi, H. (2021). Disposition of magmatic eruptions and fault distribution in northwestern Saudi Arabia using pseudo-depth slice magnetic anomaly. *Journal of Geophysics and Engineering*, *18*(4), 463–481.Ibrahim, E., **Mogren**, S., Qaysi, S., Abdelrahman, K., Ghrefat, H., Zaidi, F., & Hakami, A. (2021). Red Sea faulting and salt diapirism as a potential geotechnical hazard in Jazan, southwest Saudi Arabia: inferences from gravity data. *Natural Hazards*, 1–16.Ghrefat, H., Hakami, A., Ibrahim, E., **Mogren**, S., Qaysi, S., Abdelrahman, K., & Zaidi, F. K. (2021). Damage Assessment of a Salt Dome in Jizan, Southwestern Saudi Arabia, Using High Spatial Resolution Remote Sensing Data. Front. *Earth Sci*, *9*, 700337.**Mogren**, S. (2021). Geo-hazard assessment of the NEOM area, Northwest Saudi Arabia, using seismological and potential field data. *Arabian Journal of Geosciences*, *14*(2), 1–12.Zaki, A., & **Mogren**, S. (2021). A high-resolution gravimetric geoid model for Kingdom of Saudi Arabia. *Survey Review*, 1–16.**Mogren**, S., Mukhopadhyay, B., Mukhopadhyay, M., Nandi, B. K., & Ibrahim, E. (2021). Spatial distribution of the rheological heterogeneities at crustal depths underneath the Harrat Rahat, western Saudi Arabia and their correspondence to Bouguer anomalies. *Journal of Volcanology and Geothermal Research*, *419*, 107387Abdelfattah, A. K., Jallouli, C., Fnais, M., Qaysi, S., Alzahrani, H., & **Mogren**, S. (2021). The key role of conjugate fault system in importing earthquakes into the eastern flank of the Red Sea. *Earth, Planets and Space*, *73*(1), 1–19.Abdelrahman, K., Ibrahim, E., Qaysi, S., **Mogren**, S., Zaidi, F., & Ghrefat, H. (2021). Evaluation of kinetic moduli and soil competence scale of soil profiles in Jizan area, southwestern Saudi Arabia. *Arabian Journal of Geosciences*, *14*(3), 1–19.**Mogren**, S. (2020). Integrated use of electrical resistivity tomography and ground penetration radar for identifying subsurface sinkholes in Rufa Graben, Central Riyadh. *Arabian Journal of Geosciences*, *13*(19), 1–16.**Mogren**, S. (2020). Engineering bedrock depth estimation and ground response analysis of the northern Jeddah urban area, western Saudi Arabia. *Journal of King Saud University-Science*, *32*(4), 2445–2453.**Mogren**, S., Aldahri, M., Abdelrahman, K., & Zahran, H. (2020). Near-surface foundation level assessment from seismic measurements: a case study of north Jeddah City, Saudi Arabia. *Arabian Journal of Geosciences*, *13*(5), 1–13.Al-Johi, A., Ibrahim, E., **Mogren**, S., & Lashin, A. (2020). Petrophysical analysis of Upper Qishn Clastic Member Reservoir, Tawila Oilfield, Yemen. *Arabian Journal of Geosciences*, *13*(21), 1–31.Hakimi, M. H., Ahmed, A., **Mogren**, S., Shah, S. B. A., Kinawy, M. M., & Lashin, A. A. (2020). Thermogenic gas generation from organic-rich shales in the southeastern Say’un-Masila Basin, Yemen as demonstrated by geochemistry, organic petrology, and basin modeling. *Journal of Petroleum Science and Engineering*, *192*, 107322.Mukhopadhyay, M., **Mogren**, S., Mukhopadhyay, B., Venkatesh, K. D., & Elawadi, E. (2020). Crustal control on basement uplift beneath the Ghawar Anticline, Saudi Arabia—gravity modeling with receiver function constraints. *Arabian Journal of Geosciences*, *13*(12), 1–17.Aboud, E., Shareef, A., Alqahtani, F. A., & **Mogren**, S. (2018). Using a 3D gravity inversion technique to image the subsurface density structure in the Lunayyir volcanic field, Saudi Arabia. *Journal of Asian Earth Sciences*, *161*, 14–24.Sulaiman, A., Elawadi, E., & **Mogren**, S. (2018). Gravity interpretation to image the geologic structures of the coastal zone in al Qunfudhah area, southwest Saudi Arabia. *Geophysical Journal International*, *214*(3), 1623–1632.Abdelfattah, A. K., **Mogren**, S., & Mukhopadhyay, M. (2017). Mapping b-value for 2009 Harrat Lunayyir earthquake swarm, western Saudi Arabia and Coulomb stress for its mainshock. *Journal of Volcanology and Geothermal Research*, *330*, 14–23.Aboud, E., El-shrief, A., Alqahtani, F., & **Mogren**, S. (2017). Imaging subsurface density structure in Luynnier volcanic field, Saudi Arabia, using 3D gravity inversion technique. *EGU General Assembly Conference Abstracts*, 3012.Aldahri, M., **Mogren**, S., Abdelrahman, K., Zahran, H., El Hady, S., & El-Hadidy, M. (2017). Surface soil assessment in the Ubhur area, north of Jeddah, western Saudi Arabia, using a multichannel analysis of surface waves method. *Journal of the Geological Society of India*, *89*(4), 435–443.Abdel-Fattah, A. K., **Mogren**, S. M., & Almadani, S. (2016). Seismicity constraints on stress regimes along Sinai subplate boundaries. *Studia Geophysica et Geodaetica*, *60*(2), 268–279.Zaidi, F. K., **Mogren**, S., Mukhopadhyay, M., & Ibrahim, E. (2016). Evaluation of groundwater chemistry and its impact on drinking and irrigation water quality in the eastern part of the Central Arabian graben and trough system, Saudi Arabia. *Journal of African Earth Sciences*, *120*, 208–219.Al Asmari, A., **Mogren**, S., Lashin, A., Hussein, M., & Al Fouzan, F. (2016). An integrated geophysical study for inferring the subsurface setting of water-bearing aquifers: case study at Wadi al-Dawasir area, Saudi Arabia. *Environmental Earth Sciences*, *75*(12), 1–15.Abdalla, A., & **Mogren**, S. (2015). Implementation of a rigorous least-squares modification of Stokes’ formula to compute a gravimetric geoid model over Saudi Arabia (SAGEO13). *Canadian Journal of Earth Sciences*, *52*(10), 823–832.Batayneh, A. T., Ghrefat, H., Zumlot, T., Elawadi, E., **Mogren**, S., Zaman, H., Al-Taani, A. A., Nazzal, Y., & Elwahaidi, M. (2015). Assessing of metals and metalloids in surface sediments along the Gulf of Aqaba coast, northwestern Saudi Arabia. *Journal of Coastal Research*, *31*(1), 163–176.Aboud, E., Saud, R., Asch, T., Aldamegh, K., & **Mogren**, S. (2014). Water exploration using Magnetotelluric and gravity data analysis; Wadi Nisah, Riyadh, Saudi Arabia. *NRIAG Journal of Astronomy and Geophysics*, *3*(2), 184–191.Batayneh, A., Zaman, H., Zumlot, T., Ghrefat, H., **Mogren**, S., Nazzal, Y., Elawadi, E., Qaisy, S., Bahkaly, I., & Al-Taani, A. (2014). Hydrochemical facies and ionic ratios of the coastal groundwater aquifer of Saudi Gulf of Aqaba: implication for seawater intrusion. *Journal of Coastal Research*, *30*(1), 75–87..Al Asmari, A., **Mogren**, S., Lashin, A., Hussein, M., & Al Fouzan, F. (2014). *Analysis And Study Of Petrophysical Characteristics Of Wajid Formation In Saudi Arabia Using Well Logging Data*. International Journal of Geosciences and Geomatics, Vol. 2, Issue 2,Al-Taani, A. A., Batayneh, A., **Mogren**, S., Nazzal, N., Ghrefat, H., Zaman, H., & Elawadi, E. (2013). Groundwater quality of coastal aquifer systems in the eastern coast of the Gulf of Aqaba, Saudi Arabia. *Journal of Applied Science and Agriculture*, *8*(6), 768–778.Al-Amri, A. M., Fnais, M. S., Abdel-Rahman, K., **Mogren**, S., & Al-Dabbagh, M. (2012). Geochronological dating and stratigraphic sequences of Harrat Lunayyir, NW Saudi Arabia. *International Journal of Physical Sciences*, *7*(20), 2791–2805.Aref, L., & Saad, **Mogren**. (2012). Total organic carbon enrichment and source rock evaluation of the Lower Miocene rocks based on well logs: October oil field, Gulf of Suez-Egypt. *International Journal of Geosciences*, *2012*.Batayneh, A., Laboun, A., Qaisy, S., Ghrefat, H., Zumlot, T., Zaman, H., Elawadi, E., **Mogren**, S., & Al-Qudah, K. (2012). Assessing groundwater quality of the shallow alluvial aquifer system in the Midyan Basin, northwestern Saudi Arabia. *Arab Gulf Journal of Scientific Research*, *30*(1).Batayneh, A., Elawadi, E., **Mogren**, S., Ibrahim, E., & Qaisy, S. (2012). Groundwater quality of the shallow alluvial aquifer of Wadi Jazan (Southwest Saudi Arabia) and its suitability for domestic and irrigation purpose. *Scientific Research and Essays*, *7*(3), 352–364.Batayneh, A., Ghrefat, H., Zaman, H., **Mogren**, S., Zumlot, T., Elawadi, E., Laboun, A., & Qaisy, S. (2012). Assessment of the physicochemical parameters and heavy metals toxicity: application to groundwater quality in unconsolidated shallow aquifer system. *Research Journal of Environmental Toxicology*, *6*(5), 169.Elawadi, E., **Mogren**, S., Ibrahim, E., Batayneh, A., & Al-Bassam, A. (2012). Utilizing potential field data to support delineation of groundwater aquifers in the southern Red Sea coast, Saudi Arabia. *Journal of Geophysics and Engineering*, *9*(3), 327–335.Saibi, H., **Mogren**, S., Mukhopadhyay, M., & Ibrahim, E. (2019). Subsurface imaging of the Harrat Lunayyir 2007–2009 earthquake swarm zone, western Saudi Arabia, using potential field methods. *Journal of Asian Earth Sciences*, *169*, 79–92.Mukhopadhyay, M., Elawadi, E., Mukhopadhyay, B., & **Mogren**, S. (2018). Induced and Ambient Crustal Seismicity under the Ghawar Oil-Gas Fields, Saudi Arabia. *Journal of the Geological Society of India*, *91*(4).**Mogren**, S., Saibi, H., Mukhopadhyay, M., Gottsmann, J., & Ibrahim, E.-K. H. (2017). Analyze the spatial distribution of lava flows in Al-Ays Volcanic Area, Saudi Arabia, using remote sensing. *Arabian Journal of Geosciences*, *10*(6), 133.Zumlot, T., Batayneh, A., Zaman, H., Ghrefat, H., **Mogren**, S., Nazzal, Y., Elawadi, E., & Elwaheidi, M. (2016). Statistical analysis of different chemical elements in groundwater of northwestern Saudi Arabia. *Journal of the Geological Society of India*, *87*(4), 469–475.Saibi, H., Azizi, M., & **Mogren**, S. (2016). Structural investigations of Afghanistan deduced from remote sensing and potential field data. *Acta Geophysica*, *64*(4), 978–1003.Ghrefat, H., El Waheidi, M., Batayneh, A., Nazzal, Y., Zumlot, T., & **Mogren**, S. (2016). Pollution assessment of arsenic and other selected elements in the groundwater and soil of the Gulf of Aqaba, Saudi Arabia. *Environmental Earth Sciences*, *75*(3), 229.**Mogren**, S. (2015). Saltwater Intrusion in Jizan coastal zone, southwest Saudi Arabia, inferred from geoelectric resistivity survey. *International Journal of Geosciences*, *6*(03), 286.Ghrefat, H., Nazzal, Y., Batayneh, A., Zumlot, T., Zaman, H., Elawadi, E., Laboun, A., **Mogren**, S., & Qaisy, S. (2014). Geochemical assessment of groundwater contamination with special emphasizes on fluoride, a case study from Midyan Basin, northwestern Saudi Arabia. *Environmental Earth Sciences*, *71*(4), 1495–1505.Salem, A., Green, C., Ravat, D., Singh, K. H., East, P., Fairhead, J. D., **Mogren**, S., & Biegert, E. (2014). Depth to Curie temperature across the central Red Sea from magnetic data using the de-fractal method. *Tectonophysics*, *624*, 75–86.Elawadi, E., Zaman, H., Batayneh, A., **Mogren**, S., Laboun, A., Ghrefat, H., & Zumlot, T. (2013). Structural interpretation of the Ifal Basin in north-western Saudi Arabia from aeromagnetic data: hydrogeological and environmental implications. *Exploration Geophysics*, *44*(4), 251–263.**Mogren**, S., & Mukhopadhyay, M. (2013). Gravity modeling for the rifted crust at the Arabian shield margin–Further insight into Red Sea spreading. *Open Journal of Geology*, *3*(02), 28.Mukhopadhyay, B., **Mogren**, S., Mukhopadhyay, M., & Dasgupta, S. (2013). Incipient status of dyke intrusion in top crust–evidences from the Al-Ays 2009 earthquake swarm, Harrat Lunayyir, SW Saudi Arabia. *Geomatics, Natural Hazards and Risk*, *4*(1), 30–48.Jallouli, C., **Mogren**, S., Mickus, K., & Turki, M. M. (2013). Evidence for an east–west regional gravity trend in northern Tunisia: Insight into the structural evolution of northern Tunisian Atlas. *Tectonophysics*, *608*, 149–160.**Mogren**, S. M., & Mukhopadhyay, M. (2013). Study of seismogenic crust in the Eastern Province of Saudi Arabia and its relation to the seismicity of the Ghawar Fields. *AGU Fall Meeting Abstracts*, *2013*, T31E-2562.Zumlot, T., Batayneh, A., Nazal, Y., Ghrefat, H., **Mogren**, S., Zaman, H., Elawadi, E., Laboun, A., & Qaisy, S. (2013). Using multivariate statistical analyses to evaluate groundwater contamination in the northwestern part of Saudi Arabia. *Environmental Earth Sciences*, *70*(7), 3277–3287.**Mogren**, S., & Shehata, M. (2012). Groundwater vulnerability and risk mapping of the Quaternary aquifer system in the Northeastern part of the Nile Delta, Egypt. *Int Res J Geol Min (2276–6618)*, *2*(7), 161–173.Lashin, A., & **Mogren**, S. (2012). Analysis of well log and pressure data of the gas-bearing sand reservoirs of Kafr El-Sheikh formation: Case study from the off-shore Nile Delta-Egypt. *International Journal of Physical Sciences*, *7*(35), 5353–5366..**Mogren**, S., & Mukhopadhyay, M. (2012). The Jinadriyah Anticline in Eastern Saudi Arabia oil fields, structural model deduced from gravity and magnetic mapping. *Geo. Soc. Am. Annual Meeting & Exposition*, 4–7.Metwaly, M., Elawadi, E., Moustafal, S. S. R., Al Fouzan, F., **Mogren**, S., & Al Arifi, N. (2012). Groundwater exploration using geoelectrical resistivity technique at Al-Quwy’yia area central Saudi Arabia. *Int J Phys Sci*, *7*, 317–326.**Mogren**, S., Awni, B., Eslam, E., Abdulaziz, A.-B., Elkhedr, I., & Saleh, Q. (2011). Aquifer boundaries explored by geoelectrical measurements in the Red Sea coastal plain of Jazan area, Southwest Saudi Arabia. *International Journal of Physical Sciences*, *6*(15), 3688–3696.Maus, S., Barckhausen, U., Berkenbosch, H., Bournas, N., Brozena, J., Childers, V., Von Frese, R S Maus, U Barckhausen, H Berkenbosch, N Bournas, J Brozena, V Childers, F Dostaler, JD Fairhead, C Finn, RRB Von Frese, C Gaina, S Golynsky, R Kucks, H Lühr, P Milligan, S **Mogren**, RD Müller, O Olesen, M Pilkington, R Saltus, B Schreckenberger, E Thébault, F Caratori Tontini. (2009). EMAG2: A 2–arc min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. *Geochemistry, Geophysics, Geosystems*, *10*(8).**Mogren**, S., Fairhead, J. D., & Jassim, S. Z. (2009). Microlevelling of Aeromagnetic Data using the Naudy-Fuller Space Domain Filter. *11th International Congress of the Brazilian Geophysical Society*, cp-195.**Mogren**, S., Al-Amri, A. M., Al-Damegh, K., Fairhead, D., Jassim, S., & Algamdi, A. (2008). Sub-surface geometry of Ar Rika and Ruwah faults from gravity and magnetic surveys. *Arabian Journal of Geosciences*, *1*(1), 33–47.**Conferences:****Mogren**, S. (2018). High-Precision Gravity Measurements in Riyadh Using FGL Absolute Gravimeter. Conference of the Arabian Journal of Geosciences, 13–17.Aboud, E., El-Shrief, A., Alqahtani, F., & **Mogren**, S. (2017). Imaging Subsurface Density Structure In Luynnier Volcanic Field, Saudi Arabia, Using 3d Gravity Inversion Technique. Paper Presented At The Egu General Assembly Conference Abstracts.**Mogren**, S., Saibi, H., Mukhopadhyay, M., & Ibrahim, E. 2016. Gravity-Magnetic Data Interpretation For The Harrat Lunayyir 2009 Earthquake Swarm Zone, Saudi Arabia–Constraints Exercised From Remote Sensing Data Analysis. 35th International Geological Congress, 27 August - 4 September 2016 , Cape Town, South Africa.Elawadi, E., Sulaiman, A., & **Mogren**, S. (2015). Gravity data interpretation for structure studies at a coastal area, southwest Saudi Arabia. International Conference on Engineering Geophysics, Al Ain, United Arab Emirates, 15-18 November 2015, 199–202**Mogren**, S., & Mukhopadhyay, M. (2013). Study of Seismogenic Crust In The Eastern Province of Saudi Arabia And Its Relation To The Seismicity of The Ghawar Fields. Paper presented at the AGU Fall Meeting Abstracts.**Mogren**, S. (2012). The Jinadriyah Anticline In Eastern Saudi Arabia Oil Fields; Structural Model Deduced From Gravity And Magnetic Mapping. Paper Presented At The 2012 Gsa Annual Meeting In Charlotte.**Mogren**, S. (2012). Results of testing GPS/leveling data against the global geo-potential models (GGMS) as initial step for quasi-geoid model for Saudi Arabia. AGU Fall Meeting Abstracts, 2012, G12A-07.**Mogren**, S., Manoj Mukhopadhyay and Abdulaziz Al-jasser, 2011. Thermal isostasy below the Arabian Shield and Platform: implications caused by Red Sea spreading. Japan Geoscience Union Meeting, May 22-27, 2011, Makuhari, Chiba, Japan.**Mogren**, S., Al-Ghamdi, A. H., & Kacst, R. (2010). Central Arabia Salt Basin inferred by gravity modeling. GeoCanada2010–Working with the Earth, Calgary Canada, 1–7.**Mogren**, S. (2010). A preliminary attempt of a quasi-geoid for Saudi Arabia. FIG Congress, 11–16.**Mogren**, S., Fairhead, D., & Jassim, S. (2009). Detailed Geological Features of The Arabian Peninsula Obtained From The Aeromagnetic Data. AGU Spring Meeting Abstracts, 2009, GP23A-03.**Mogren**, S., Fairhead, J. D., & Jassim, S. Z. (2009). Microlevelling of Aeromagnetic Data using the Naudy-Fuller Space Domain Filter. Paper presented at the 11th International Congress of the Brazilian Geophysical Society & EXPOGEF 2009, Salvador, Bahia, Brazil, 24-28 August 2009.Maus, S., Fairhead, J. D., **Mogren**, S., & Bournas, N. (2008). EMAG3: A 3-arc-minute resolution global magnetic anomaly grid compiled from satellite, airborne and marine magnetic data. 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