Publications and Projects
Dr. Andy Y. Kwarteng

SCIENTIFIC PUBLICATIONS

Refereed Papers, Books and Book Chapters

1 Pingitore, Jr., N.E., Jr., Y. Rangel, and A. Kwarteng. 1989. Barium variation in *Acropora palmata* and *Montastrea annularis*. *Coral Reefs* **v**. 8, p. 31-36.

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14 Omar, S.A.S, R. Misak, H. Minkarah, P. King, A. Kwarteng, H. Abo-Rizq and W. Roy. 2001. Land-use mapping for the State of Kuwait using the geographical information system (GIS). *Arabian Gulf Journal of Scientific Research*, v. 19(2), p. 59-65.

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Thesis

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2. Eyes in the Sky. *Oman Today* August-September 2003, 78-84.
3. Remote Sensing Monitoring of Cyclone Gonu; *Horizon* (Sultan Qaboos University) Issue 128, 10 Feb 2008, p.5.
4. Rainfall Data Analysis in Oman*; Horizon* (Sultan Qaboos University), Issue 174, 30 Oct 2009, p. 4.
5. Muscat susceptible to tropical cyclones every 50 years; Times of Oman, Dec 5, 2009, p. 1.
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7. Remote Sensing and GIS Center; Oman Observer, Mar 15, 2010, p. 26.
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9. Satellite Meteorology at SQU; Horizon (Sultan Qaboos University) Issue 190, 20 Apr 2010, p. 4.

RESEARCH PROJECTS

1. Arabian Gulf Oil Spill Research Program. Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.
   Duration: 1991-1992.
   Duties: Task Leader, remote sensing applications
   Client: Meteorology and Environmental Protection Administration
   Budget: US$ 2 Million.
2. Post-war survey and evaluation of Kuwait's shrimp nursery grounds with emphasis on those south of Kuwait Bay, Phase II. Kuwait Institute for Scientific Research (Project MB-77)
   Duration: 1992-1994.
   Duties: Task Leader, remote sensing applications
   Client: Kuwait Foundation for the Advancement of Sciences and Environmental Public Authority
   Budget, US$ 300,000.
3. Damage assessment of the desert and coastal environment of Kuwait by remote sensing. Kuwait Institute for Scientific Research (VD001C)
   Duration: 1992-1994.
   Duties: Project Member, remote sensing applications.
   Client: Kuwait Foundation for the Advancement of Sciences (KFAS)
   Budget: US$ 750,000.
4. Assessing the local weather phenomena in Kuwait in relations to natural disasters. Kuwait Institute for Scientific Research (Project VT007C)
   Duration: 1994-1996.
   Duties: Task Leader, remote sensing applications
   Client: Warba Insurance Company, Kuwait
   Budget, US$ 150,000.
5. Study of sand control at Kuwait Oil Corporation (KO operation areas of southeast, west and north Kuwait. Kuwait Institute for Scientific Research (Project EES-139)
   Duration: 1996-1998.
   Duties: Task Leader, remote sensing applications
   Client: Kuwait Oil Corporation
   Budget: US$ 450,000.
6. Assessment of the effects of the Shatt Al-Arab's altered discharge regimes on the ecology of the Northern Arabian Gulf, Phase I. Kuwait Institute for Scientific Research (Project FM006K)
   Duration: 1995-1997.
   Duties: Principal Investigator and Task Leader, remote sensing applications Client: Kuwait Institute for Scientific Research
   Budget: US$ 250,000.
7. Soil Survey for the State of Kuwait. Kuwait Institute for Scientific Research (Project SPP 11)
   Duration: 1995-1998.
   Duties: Principal Investigator and Member of KISR's Technical Committee Client: Public Authority for Agriculture and Fisheries Resources, Kuwait
   Budget: US$ 10 Million.
8. Analysis of synthetic aperture radar images for environmental and land-use mapping of Kuwait. Kuwait Institute for Scientific Research, (Project VD002C)

Duration: 1998-2000.
Duties: Project Leader. Joint project with EnviSense Corporation, Ann Arbor, USA
Client: Kuwait Foundation for the Advancement of Sciences (KFAS)
Budget: US$ 350,000.

9. Evaluation of Radarsat synthetic aperture radar beam modes for characterizing desertification and coastal processes in Kuwait. Kuwait Institute for Scientific Research (Project VD007K)
   Duration: 1998-2000.
   Duties: Project Leader
   Client: Kuwait Institute for Scientific Research
   Budget: US$ 84,000.
10. The study of Kuwait's oil lakes and polluted surfaces using remote sensing Kuwait Institute for Scientific Research (Project VD008C)
    Duration: 1999-2003.
    Duties: Project Leader
    Client: Public Authority for Assessment of Compensation for Damages Resulting from the Iraqi Aggression (PAAC)
    Budget, US$ 200,000.
11. Controlling land degradation in several areas of Kuwait (Phase I) mapping and assessment. Kuwait Institute for Scientific Research (Project VD006C)
    Duration: 1999-2001.
    Duties: Principal Investigator, remote sensing applications
    Client: Environmental Public Authority, Kuwait
    Budget: US$ 150,000.
12. Assessment and modeling of the oil spill fate in the coastal region of Sultanate of Oman. Sultan Qaboos University, Oman
    Duration: 2002-2005
    Duties: Co-principal investigator, remote sensing applications
    Client: His Majesty (HM) project, Sultan Qaboos University
    Budget: $203,890
13. The use of GIS and remote sensing to monitor and analyze urban growth in the Greater Muscat. Sultan Qaboos University, Oman
    Duration: 2003-2005
    Duties: Co-principal investigator, remote sensing applications
    Client: His Majesty (HM) project, Sultan Qaboos University
    Budget: $120,000
14. Coastal erosion along the Batinah. Sultan Qaboos University
    Duration: 2004-2006
    Duties: Co-principal investigator, remote sensing and GIS applications
    Client: His Majesty (HM) project, Sultan Qaboos University
    Budget: $180,000
15. Al Jabal Al-Akhdar initiative-conservation and sustainable development in a fragile arid mountain ecosystem. Sultan Qaboos University
    Duration: 2004-2006
    Duties: Co-principal investigator, remote sensing and GIS applications
    Client: His Majesty (HM) project, Sultan Qaboos University
    Budget: $172,000
16. Bar Al Hikman Pleistocene to modern carbonate system. Sultan Qaboos University
    Duration: 2004-2006

Duties: Co-principal investigator, remote sensing and GIS applications
Client: Joint Virtual Reality Center for Carbonate Studies
Budget: $330,000

17. Diamond potentiality in the kimberlitic of the Batain Nappes, Eastern Oman. Sultan Qaboos University
    Duration: 2006-2008
    Duties: Remote sensing applications
    Budget: $125,000