

## **Curriculum Vitae**

**Professor Hashim Ali El Atta**

**Dept. of Plant production**

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### ***I. PERSONAL INFORMATION***

HASHIM ALI EL ATTA

DATE OF BIRTH: 10-01-1955

Sudanese

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MARETAL STATUS: Married

### **I. Education and Qualifications**

1. Elementary School at El Dume 1, Khartoum, 1962-1966
2. Intermediate School at El Ameeria Khartoum South School, 1966-1971
3. Secondary School at New Khartoum High Secondary School 1971-1973
4. B.Sc. Forestry (Honours) Class 1, Faculty of Agriculture, University of Khartoum, 1974-1979.
5. Ph.D. in Forest Pathology. Decay of extraction wounds in conifers caused by *Stereum sanguinolentum*. Department of Forestry and Natural Resources, University of Edinburgh, United Kingdom. 1985.
6. Diploma, Seed Pathology. The Royal Veterinary and Agriculture University of Copenhagen, Institute of Seed Pathology, Denmark, 1989

### **II. TEACHING ACTIVITIES**

- ◆ Teaching of Forest Pathology to undergraduate students of Forestry, University of Khartoum since 1985-to date.

- ◆ Teaching of Forest Entomology to under graduate students of Forestry, University of Khartoum since 1985 – to date.
- ◆ Teaching for Forest Pathology and Forest Entomology to undergraduate students of the Faculty of National Resources and Environmental Studies, Juba University 1985- 1995.
- ◆ Teaching of Forest Protection to Diploma students, Sudan University of Science and Technology 1990–1991.
- ◆ Annual participation in field work for forestry final students which includes camping for six weeks in the field and full supervision of the students in data collections, analysis, interpretation and waiting up of dissertations since 1985-to date
- ◆ Teaching of Environmental Forestry Course for postgraduate students at the Institute of Environmental Studies, University of Khartoum, since 2001-to date

### **III. ACADEMIC POSTS AND PARTICIPATION IN UNIVERSITY**

#### **COMMITTEES**

- ◆ Teaching Assistant, Department of Forestry, University of Khartoum 1979-1980.

- ◆ Assistant Professor, Department of Forestry, University of Khartoum, 1985-1995.
- ◆ Promoted to Associate Professor, Faculty of Forestry, University of Khartoum, February, 1995.
- ◆ Secretary of Dept. of Forestry Board, 1985-1988.
- ◆ Acting Head, Dept. of Forestry, 1986.
- ◆ Member of the Faculty of Agriculture Board, 1987-1993.
- ◆ Head Dept. of Forestry, 1991-1993.
- ◆ Chairman, Committee for University Lands (Soba), 1997 – 2000.
- ◆ Member of the Faculty of Agriculture Board, 1987-1993.
- ◆ Member of the Senate, University of Khartoum, 1993-1997.
- ◆ First Dean, Faculty of Forestry, University of Khartoum, 1993-1997.
- ◆ Re-appointed Dean, Faculty of Forestry, 1997-2000.
- ◆ Director, Institute of Environmental Studies, University of Khartoum, June, 2000- 2003.
- ◆ Promoted to full Professor, 2002.
- ◆ National Coordinator, Dry Land Husbandry Project (DHP) (Sudan), July 2000-2003.

◆ Head, Dept. of Forest Conservation and Protection, Faculty of Forestry, University of Khartoum, 2006-2008.

◆ Professor, Forestry and Range Research Unit, Faculty of Food Science and Agriculture, King Saud University, Saudi Arabia.

◆ **Member of the syllabi Committees of:**

1. Faculty of Natural Resources and Environmental Studies, University of Kordofan, 1991.

2. Faculty of Agriculture, University of Darfur, 1991.

3. University of El Shargh, 1992.

4. University of Upper Nile, 1993.

5. Dept. of Forestry, University of Khartoum, 1985

◆ Member of the Committee that investigated the phenomenon of shade trees mortality inside the university campus, 1986.

◆ Member of the Technical Committee for the present and future of Khartoum Forest, 1986.

◆ Member of the Syllabi Committee for curriculum revision and development, Institute of environmental Studies, University of Khartoum, 1993.

◆ Member of the Committee for the establishment of the Central Laboratory, Faculty of Agriculture, 1987.

- ◆ Member of the Technical Committee for National Agricultural Research Policy and Priorities, The National Council for Research, 1988.

- ◆ Member of National Committee for Land and Water Use, Ministry of Finance and Economic Planning, 1988.

- ◆ Chairman of the Technical Committee investigated the phenomenon of shade trees mortality in Khartoum state, Forests National Corporation, 1992.

- ◆ Member of the Committee for Colleges of Natural Resources and Environmental Studies. Ministry of Higher Education and Scientific Research, 1997- to date.

#### **IV. CONTRIBUTIONS TO THE BETTERMENT OF THE FACULTY OF FORESTRY**

##### **1. Promotion of the Dept. of Forestry into a Faculty of Forestry**

As soon as my appointment as a Head, Dept. of Forestry in 1991, I initiated, guided and led a project leading to the promotion of the ex Dept. of Forestry into a full Faculty of Forestry. I presented and defended the promotion at all the University of Khartoum Boards and Committees. Eventually, and due to the excellent presentation and defence of the submission, it was approved unanimously at all University Boards and Committees. I was then appointed as the first Dean of the Faculty. I supervised the establishment of four departments namely;

Silviculture, Conservation and Protection, Products and Industries and Dept. of Forest Management including placement of the senior and junior staff. Due to the success I achieved I was reappointed as a Dean of the Faculty of for three more years.

## **2. Faculty New Buildings**

Due to successful efforts I was able to allocate a spacious building which is composed of three blocks each comprised of four floors, for the future development of the Faculty. Now the Faculty of Forestry is occupying this building in Shambat Campus.

## **3. Establishment of a Seed Pathology Laboratory**

I established the only well equipped laboratory in the Faculty of Forestry for Seed Pathology. That was due personal efforts and contacts with **DANIDA** (Danish International Development Agency) which donated all the necessary equipment and materials as a reward for the excellent research I did in Denmark at the Institute of Seed Pathology during my sabbatical leave in Jan – Nov. 1989.

## **4. Introduction of new university degrees:**

- Diploma in Forestry.

- B. Sc. Forestry (Honours) by Distant Learning.
- M. Sc. in Forest Management and Extension

**5. Establishment of the Forest Entomology laboratory**

**6. Establishment of a small laboratory for wood technology.**

**7. Rehabilitation and furnishing of three lecture rooms.**

**8. Rehabilitation of offices for the staff and administration.**

**V. MEMBERSHIP OF PROFESSIONAL SOCIETIES**

1. New York Academy of Science (elected 1994).
2. Sudanese Foresters Society.
3. Sudanese Society for Environment Conservation.

**VI. POSTGRADUATE SUPERVISION**

**A. Graduated :**

1. **U. E. Osman (1990).** Symbiotic nitrogen fixation by *Rhizobium* and *Acacia* spp and factors affecting nodulation and nitrogen fixation. M.Sc. Thesis by research.
2. **E. M. El Bashier (1994).** The impact of defoliation by the tree locust (*Anacridium melanorhodon melanorhodon*) On gum Arabic production by hashab trees (*Acacia senegal*). M.Sc. Thesis by research.



3. **E. T. El Tom (1995)** Bruchid seed borers and their effect on viability of seeds of *Acacia* spp and *Prosopis* spp. M.Sc. Thesis By research.
4. **W. M. T. Nouri (1996).** Branch wilt disease caused by *Nattrassia mangiferae* Nattrass in some shade trees in Khartoum state. M.Sc. thesis by research.
5. **I. A. Bashier (1996)** Photochemical studies and Allelopathic effect of volatile oil of *Eucalyptus camaldulensis*. M.Sc. Thesis by research.
6. **E. T. El Hussein (1996).** Study on some factors affecting nodulation and nitrogen fixation in *Acacia Senegal*, *Acacia albida* and *Leucaena leucocephala*. M. Sc. Thesis by research.
7. **A. M. H. Al Dhamri (1997).** Wilt of vertical and horizontal cypress in Yemen. M.Sc. Thesis by research.
8. **E. M.A. Faris (1997).** Investigation on the die-back of *Acacia nilotica* in the Blue Nile area associated with the bark beetle *Chrysobothris dorsata*. M.Sc. Thesis by research.
9. **A. H. El Obeid (1998).** The impact of *talih* wood borer *Sinoxylon senegalense* Karsch (Coleoptera, Bostrychidae) on the production of charcoal quantitatively and qualitatively. M.Sc. Thesis by research.

- 10.A. A. El Sheikh (1999).** Effect of storage conditions and botanicals on the infestation of seeds of *Acacia nilotica* (L. Willd. Ex. Del.) and *A. seyal* (Del.) var. *seyal* (Brenan) by some bruchids M. Sc. Thesis by research.
- 11.M. M. Muhager (2000).** Studies on the tree locust (*Anacridium melanorhodon melanorhodon*) as a pest of *Acacia senegal*. M.Sc. Thesis by research.
- 12. H. A. Abdalrasoul.** Factors affecting infestation of *Acacia seyal* by *Sinoxylon senegalense*. M.Sc. by research.
- 13.S. Hassan.** Bicontrol of *Nattractia mangiferae* using *Trichoderma viride* in *Ficus nitida* and *F. benjamina*. M.Sc. by research.
- 14.A. Moneim Atta El Seed.** The effect of some botanicals on the control of subterranean termites in wood. M. Sc. By research.
- 15.S. Khalil.** The role of some insect exudates on the production of gum Arabic by Hashab (*Acacia Senegal*). M.Sc. by research.
- 16.O. B. Mohamed.** Management of oil palm seedlings at the nursery stage. M. Sc. By research.
- 17.N. Galal El Din.** The efficacy of some botanicals in controlling *Sinoxylon senegalense* in *Acacia seyal*. M. Sc. By research.
- 18. Ali Al Zubaidi. 2011.** Ecological study in *Silvadora persica* grown in Al Qonfoza. M. Sc. **King Saud University.**

### **B. Ongoing Postgraduate Research:**

**19. Yahia Abdullah Yahia.** Vegetative and seed propagation of *Juniperus procera*. M.Sc. **King Saud University.**

**20. Sultan Al Otaibi.** Biological nitrogen fixation by some *Acacia* spp. in Saudi Arabia. M.Sc. **King Saud University.**

## **VII. PUBLISHED JOURNAL PAPERS**

- 1. H. A. El Atta and A. . Hayes (1987).** Decay in Norway spruce caused by *Stereum sanguinolentum* developing from extraction wounds. **Forestry, 60 (1), 101-111.**
- 2. H. A. El Atta and A. J. Hayes (1987).** Cellulose and lignin decomposition by *Stereum sanguinolentum* attacking Norway spruce through extraction wounds. **Scottish Forestry, 41 (2), 115-120.**
- 3. H. A. El Atta (1988).** *Sphenoptera chalcichroa arenosa* associated with the die-back of *Acacia nilotica* in the Sudan. **J. App. Ent., 16:350-355.**
- 4. H. A. El Atta (1993).** The effect of *Caryedon serratus* Olivier (Col., Bruchidae) on viability and germination of seeds of *Acacia nilotica*. **For. Ecol. Man., 57: 169-177.**

5. **U. E. Osman and H. A. El Atta (1993).** Rhizobial cross-inoculation groups of *Faidherbia albida* and *Acacia spp.* **U. of K. J. Agric. Sci. I (1), 127-136.**
6. **H. A. El Atta and U. E. Osman (1995).** The impact of some factors on nodulation of *Acacia spp.* **U. of K. J. Agric. Sci. 3 (1), 98-107.**
7. **H. A. El Atta and Z. M. El Bashier (1995).** The effect of tree locust defoliation on gum Arabic production by hashab trees (*Acacia senegal*) in the Sudan. **U. of K. J. Agric. Sci. , 3(2), 111-121.**
8. **H.A. El Atta and I. Bashir (1988).** The allelopathic effect of *Eucalyptus camaldulensis* (Dehn) on germination and seedling growth of cotton. **Soc. For. Environ. 5, 6-12.**
9. **H. A. El Atta (1999).** The impact of season on the development of *Caryedon serratus* Olivier (Coleoptera, Bruchidae). **JONARES. 2 (1), 67-74.**
- 10.**H. A. El Atta and Wafa M. Nouri. (1999).** Incidence and etiology of branch wilt due to *Nattrassia mangiferae* Nattrass on selected tree flora in Khartoum State. **U. of K. J. Agric. Sci. 7(1), 116-129.**
- 11.**H. A. El Atta and Wafa M. Nouri. (1999).** Phytotoxicity and antimicrobial activity of the culture filtrate of *Nattrassia mangiferae* Nattrass. **U. of K. J. Agric. Sci. 7(1), 130-138.**

12. **H. A. El Atta and I. Bashir** (1999). The allelopathic effect of *Eucalyptus camaldulensis* (Dehn) on germination and seedling growth of *Sorghum bicolor* L. **JONARES**. 2 (1), 61-66.
13. **H. A. El Atta and I. Bashir** (1999). Adverse effects of *Eucalyptus camaldulensis* (Dehn) leaf extract on germination and seedling growth of wheat. **U. of K. J. Agric. Sci.** 7(2), 70-80.
14. **H. A. El Atta and W. M. Nouri** (1999). On the biology of four isolates of *Nattrassia mangiferae* Nattrass. 1. The effect of temperature. **Sudan Silva**. VIII (28). 12-18.
15. **H. A. El Atta** (1999). On the biology of *Caryedon serratus* Olivier (Coleoptera, Bruchidae). The impact of diet and seed pretreatment. **Sudan Silva**. VIII (28), 1-11.
16. **H. A. El Atta** (1999). On the biology of *Bruchidius uberatus* (Fahraeus) (Col., Burchidae) a seed-borer in *Acacia nilotica*. **U. of K. J. Agric. Sci.** 7(2), 81-89.
17. **A. M. M. Mahdy, M. A. El Zumair, H. A. El Atta and A. M. H. Al Damri** (1999). Phytotoxicity of *Fusarium oxysporum* Schlecht culture filtrate on cypress plants. **Egypt. J. Appl. Sci.** 14 (3), 56-65.
18. **M. A. El Zumair, A. M. M. Mahdy, H. A. El Atta and A. M. H. Al Damri** (1999). Survey, isolation and pathogenicity of Horizontal and Vertical cypress wilt disease pathogen in Yemen. **Egypt. J. Appl. Sci.** 14 (3), 66-86.

19. **H. A. El Atta and I Bashir (2000).** The allelopathic effect of *Eucalyptus camaldulensis* (Dehn) on germination and seedling growth of cowpea. **Soc. For. Environ.** 2(6), 6-15.
20. **H. A. El Atta (2000).** Effect of diet and seed pretreatment on the biology of *Bruchidius uberatus* (Coleoptera, Bruchidae). **Silva Fennica.** 34 (4), 431-435.
21. **M. EL Nour and H. A. El Atta (2001).** Prospects and constraints of direct sowing of some forest tree seeds in Sudan. **Soc. For. Environ.** 2(6), 13-19.
22. **H. A. El Atta and H. O. Abd El Nour (2001)** Forest Pests in the Sudan: Their economic importance and control. **Soc. For. Environ.** 3 (1), 1-10.
23. **H. A. El Atta and H. Obeid (2001).** Effects of log conditions and stacking methods on infestation of *Acacia seyal* by *Sinoxylon senegalense*. **J. Trop. For. Prod.** 7 (1), 29-36.
24. **H. A. El Atta and H. Obeid (2001).** Damage of *Acacia seyal* wood and charcoal by *Sinoxylon senegalense* (Coleoptera., Bostrichidae). **J. Trop. For. Prod.** 7(2), 198-205.
25. **H. A. El Atta and A. Ahmed (2002).** Comparative effects of some botanicals for the control of the seed weevil *Caryedon serratus* Olivier (Col., Bruchidae). **J. Appl. Ent.** 126, 577-583.
26. **Sayeda A. A. and El Atta, H. A. (2004).** Life cycle of *Agrilus nubeculosus* (Fairm) associated with *Acacia senegal* trees. **Sudan Silva**, Vol. X (1), 11-17.

27. **Sayed A. A. , El Atta, H. A. and Ibrahim, A. M. (2004).** Mortality of *Khaya senegalensis* in Southern Kordofan State. **Sudan Silva**, Vol. X (1), 92-98.
  
28. **M. Aref, H. A. El Atta and A. A. Al Ghtani. 2009.** Ecological study on *Dobera glabra* Forssk. at Jazan. region in Saudi Arabia. **Journal of Horticulture and Forestry**. 1 (9), pp. 198–204.
  
29. **H.A. El Atta, I.M. Aref and A. El Sheikh. 2009.** The comparative efficacy of some botanicals for the control of the seed weevil *Caryedon serratus* Olivier (Col., Bruchidae) in seeds of *Acacia seyal* Del. **Archives of Phytopathology and Plant Protection. In Press.**
  
30. **H.A. El Atta, I.M. Aref and M. Mohager. 2009.** Efficacy of crude neem seed kernel oil (NSKO) in controlling the tree locust (*Anacridium melanorhodon melanorhodon* Walker), a serious pest of the gum arabic producing tree (*Acacia senegal* L. Willd) in the Sudan. **Archives of Phytopathology and Plant Protection. In Press.**
  
31. **M. Aref, H. A. El Atta and A. A. Al Ghtani. 2009.** Ecological study on *Dobera glabra* Forssk. at Jazan. region in Saudi Arabia. **Journal of Horticulture and Forestry**. Vol. 1(10) pp. 198-204.

32. **H. A. El Atta, I. Aref. 2010.** Effect of terracing on rain water harvesting and growth of *Juniperus procera* Hochst. ex Endlicher. **Int. J. Environ. Sci. Tech., 7 (1), 59-66.**
33. **H.A. El Atta I. M. Aref A. El Sheikh. 2011.** The comparative efficacy of some botanicals for the control of the seed weevil *Caryedon serratus* Olivier (Col., Bruchidae) in seeds of *Acacia seyal* Del. **Archives of Phytopathology and Plant Protection.** Vol. 44, No. 4, February 2011, 362–372.
34. **H.A. El Atta, I.M. Aref and M. Mohager. 2011.** Efficacy of crude neem seed kernel oil (NSKO) in controlling the tree locust (*Anacridium melanorhodon melanorhodon* Walker), a serious pest of the gum arabic producing tree (*Acacia senegal* L. Willd). **Archives of Phytopathology and Plant Protection.** Vol. 44, No. 4, February 2011, 373–380.
35. **IBRAHIM MOHAMED AREF HASHIM ALI EL ATTA AND ABDUL RAHMAN MOHAMED AL GHAMDE. 2011.** Effect of Forest Fires on Tree Diversity and some Soil Properties. **International Journal of Agriculture and Biology.** Vol. 13, No. 5. 659–664.
36. **Ibrahim Mohamed Aref, Hashim Ali El Atta, Thobayet Al Shahrani and Abdullah Ismail. 2011.** Effect of seed source and pretreatment on germination of 5 *Acacia* spp. **African Journal of Biotechnology.** Vol. 10 (71), pp. 15901-15910.



37. Sayda A. A. K., H. A. El Atta, I.M. Aref. 2011. Increased Gum arabic Production after Infestation of *Acacia senegal* with *Aspergillus flavus* and *Pseudomonas pseudoalcaligenes* Transmitted by *Agrilus nubeculosus*. **African Journal of Biotechnology**. Vol. 10 (37), pp. 7166-7173.
38. Hashim Ali El Atta Ibrahim Mohamed Aref Abdalla Ismail Ahmed Pervez Rasheed Khan. 2012. Morphological and anatomical response of *Acacia ehrenbergiana* Hayne and *Acacia tortilis* (Forssk) Haynes subsp. *raddiana* seedlings to induced water stress. **African Journal of Biotechnology**. 11 (44): 10189-1099.
39. H. A. El Atta, IM Aref, TS Al Shahrani, A. Al Azba, KA Ibrahim. 2013. Comparative efficiency of some types of microcatchments. **International Journal of Plant, Animal and Environmental Sciences**. 3(1): 181-192.
40. IM Aref, H.A. El Atta, TS Al Shahrani, A. Al Azba, MM El Obeid. 2013. Evaluation of the physiological and growth response of *Juniperus procera* Hochst. Ex Endlicher to some types of microcatchments. **International Journal of Plant, Animal and Environmental Sciences**. 3(1): 234-241.
41. HA El Atta, IM Aref. 2013. Pathogenic mortality of *Ficus* spp. **International Journal of Plant, Animal and Environmental Sciences**. 3(1): 204-210.

- 42. IM Aref and HA El Atta. 2013.** Growth performance and stand structure of some *Acacia* spp. in south western Saudi Arabia. **International Journal of Plant Animal and Environmental Sciences.** 3(2): 35-41.

### **VIII. Conference and Workshop Papers and Consultancies**

- 43. H. A. El Atta (1987).** Extension and Training Workshop for Mauritanian Agricultural Technicians in : Production and Protection of gum Arabic tree. Protection of hashab tree (*Acacia Senegal*). Khartoum, 23<sup>rd</sup> Dec.-13<sup>th</sup> Jan 1987-1988. (Pamphlet), 1-12. Arab Organization for Agricultural Development. Arab Fund for Economic and Social Development.
- 44. A. M. Ali, S. El Bashier, M. O. Bashier, O. A. El Fahal and H. A. El Atta (1997).** Locusts and grasshoppers in the Sudan. Workshop on Scientific Cooperation, Ministry of Agriculture and Forestry (Sudan) and the International Centre of Insect Physiology and Ecology (ICIPE) (Nairobi), 1-4, Khartoum, 6<sup>th</sup> –7<sup>th</sup> Dec., 1997.
- 45. Y. B. Abu Geidairy and H. A. El Atta. (1998).** Evaluation and prospects of Natural Resources Colleges. Workshop on: Evaluation and prospects of the Agricultural Higher Education. National Council of Higher Education. Khartoum, Sharjah Hall, 1-2 Dec. 1988.

46. **H. A. El Atta, W. A. Mujahid, B. El Hussein, H. A. El Habeeb, H. Shakir, M. H. Zein El Abdeen and M. Abdel Rahman (1999).** National study on strengthening rural people's participation in protecting and conserving range and forests in the Arab world. Arab League. Arab Organization for Agricultural Development. (Consultancy).
47. **H. A. El Atta and M. F. Elmula (2000).** Dry Land Husbandry Project (DHP, Sudan). Impact and sustainability. 6<sup>th</sup> DHP Regional Workshop. Kassala, 16-18 Oct., 2000.
48. **H. A. El Atta (2000).** The effect of *Sphenoptera chalcichroa arenosa* (Col., Buperstidae) on Sustainable Management of *Acacia nilotica* (L. Willd. Ex Del) in the Sudan. Proceedings of the XXI IUFRO World Congress. Division 7: Forest Health. Malaysia (2000). Pp. 353.
49. **H. A. El Atta (2002).** Investigation of the mortality of coconut trees in Comoro Islands. Ministry of Agriculture, Khartoum State (Consultancy).
50. **H. A. El Atta (2003).** Investigation of the Tip Blight of *Juniperus procera* (Local name: Ar-Ar) in the Kingdom of Saudi Arabia. Arab Organization for Agricultural Development and Ministry of Agriculture, Kingdom of Saudi Arabia. 26<sup>th</sup> Dec. 2003-13<sup>th</sup> Feb.2004.

## **IX. Finalized Research projects**

1. (2006). CTA (Chief Technical Advisor) Monitoring and Rehabilitation of the Juniper ecosystem in Sarawat Mountains in Saudi Arabia. FAO, Ministry of Agric. Project. Dec. 2005-Dec 2006. Sponsor: FAO.
2. (2011). Growth activity and wood characteristics of indigenous *Acacias* of Saudi Arabia Project No. AT 28-59.

#### **X. Cuurent Research Projects**

3. (2012). Application of some water harvesting techniques as means for the recovery of *Juniperus procera* ecosystem and watersheds on the Sarawat Mountains in south-western Saudi Arabia. NPST Project No. 09-WAT 668-02.
4. (2011). Investigation of the decline of the Juniper ecosystem in Saudi Arabia. NPST Project No. 10-AGR 1310-02.
5. (2011). Enrichment of biodiversity of some rare naturally growing indigenous tree species in Southwest Saudi Arabia. KACST.

#### **XI. Submitted Projects**

6. Towards domestication of wild olives in south-western Saudi Arabia. Submitted to NPST.
7. Phenotypic and molecular characterization of wild Almond (*Prunus dulcis*). in south-western Saudi Arabia. Submitted to KACST.
8. Effect of Rhizobium-Mycorrhiza association on the performance of seedlings of *Juniperus procera* and *Acacia origena* in south western Saudi Arabia.