



OBSERVATOIRE DU SAHARA ET DU SAHEL  

---

SAHARA AND SAHEL OBSERVATORY

**HOSTING FELLOWS ON CLIMATE CHANGE**

**AFRICAN CLIMATE CHANGE FELLOWSHIP,**

**OSS PROPOSAL**

---

**1. Institutional description**

1.1 Name : Observatoire du Sahara et du Sahel (OSS)

1.2 Programmes : The OSS has two main programmes namely; Environment programme and Water programme. In addition, there are two cross-cutting axes namely Research for Development and Communications.

1.3 City: Tunis

1.4 Country: Tunisia

1.5 Type of institution: Scientific and technical institution

1.6 Primary mission of institution

OSS is an international framework for partnership and consultation that contributes to harnessing and sharing useful information to combating desertification and mitigating the effects of drought (OSS Statutes). It contributes to developing the capacities of its member states and organisations to produce, manage, share and disseminate information needed for sustainable natural resources management by focusing on land and water degradation as priority themes.

1.7 Secondary missions of institution

To facilitate, create awareness and develops mutually profitable partnerships, and supports African efforts at the national, sub-regional and regional levels on natural resource conservation, protection and management that will contribute to sustainable development. OSS carries out its mission as part of actions to materialise international commitments to environmental protection and sustainable development (Agenda 21, UNCCD, UNCBD, and Millennium Development Goals) in the arid, semi-arid and subhumid zones of Africa.

1.8 Main thematic area(s) of work: Environment, water, natural resource management and development.

1.9 Working language(s) of the institution: French and English

---

**2. Proposal Leader**

Name: Dr Melanie Requier Desjardins

Title: Coordinator Environment Programme and Research for Development

Mailing Address: Boulevard du Leader Yasser Arafat, BP 31, 1080, Tunis

Telephone Number: 216 71206 633

E-mail address: [melanie.requier@oss.org.tn](mailto:melanie.requier@oss.org.tn)

---

**3. Collaborating Institution**

3.1 Name : Institut des Régions Arides (IRA, Médenine)

3.2 City : Tunisia

3.3 Country: Médenine,

3.4 Primary mission of the institution

To conduct scientific research in agricultural development, protection and conservation of natural resources, and desertification control in the arid and Saharan parts of the country; training and capacity building for technical staff and research scientists, in natural resources management, aridoculture, and combating desertification.

#### 3.5 Secondary missions of the institution

To extend the achievements of research and supervising regional development and farmers organisations in the subjects listed above; carrying out integrated agricultural development projects and studies for national and international organisations.

3.6 Main thematic areas of work : water, agriculture, development, environment.

3.7 Working languages of the institution: French and Arabic

3.8 Name and title of principal contact person: SGHAIER Mongi

E-mail address of principal contact person: [s.mongi@ira.rnrt.tn](mailto:s.mongi@ira.rnrt.tn)

Fields of expertise: Economy of the natural resources and the environment, Agronomy

---

### **4. Fellowship Experiences to be Offered**

---

Basing on OSS achievements on sustainable land management, adaptation to climate change and environmental information, OSS may help mentor the fellows to distinctly define their thematic areas, their needs in terms of data and information and to revise the relevant documentation related to the environmental issues including climate change in Africa.

Furthermore, OSS has a long experience of hosting fellows from different African and European countries. OSS offers them the possibility to understand the environmental issues through a regional approach and the international environmental initiatives. Due to our position in circum-Saharan zone, they are involved in our work in different countries and different observational sites. Thus, OSS offers the opportunity to go to the ground and visit the specific sites, namely the observatories or field laboratories, where adaptation pilot projects are currently on-going as case of Tunisia and Niger.

In the OSS headquarters, the fellows will be mentored and monitored by multidisciplinary and experienced staff not only on climate change but in relation to other environmental aspects in a more holistic and synergetic way; as we already know that climate change has cross-cutting links and cannot be distinguished, and does not 'stand alone' OSS deals with the main environmental issues (land degradation, biodiversity and climate change), hence OSS has the experience of dealing with different stakeholders across circum-Saharan Africa (scientists, technicians, policymakers, developers, etc.) across different scales (local, national, sub-regional and continental).

Due to OSS country-based approach, an overview of OSS activities within our different members countries, will be offered in order to show the regional dimension of OSS activities in Africa. The sub-regional approach linked to the cooperation between OSS and our sub-regional members institutions, will be presented. Each fellow, according to his or her area of interest is oriented and monitored, and a periodic report is written after each stage of work.

Also, OSS has a very unique experience on local observation and environmental monitoring and since climate change adaptation is local based, these observatories will provide the fellows with field based experience that will enrich the theoretical aspects by applying the concepts on to action oriented and learning by doing approach. Also through the national environmental monitoring device(DOSE programme), the fellows will have first hand information on involving all actors at the planning process to ensure that information obtained is useful to influence policy dialogue. Other areas of expertise that fellows could benefit on is the capacity of OSS to use the results from various studies to develop issue briefs that communicate clearly reaching a wide range of audience and as a tool for to engaging into policy dialogue.

---

## 5. Administrative and Cost Issues

---

5.1 How many visiting Fellows would you be interested and capable to host at one time? **Four (Policy fellow-2, PhD -1 and teaching-1)**

5.2 Are there specific dates on which visiting Fellows should begin their Fellowships (e.g. beginning of a school term or fiscal year)? **No specific date, the fellows can join any time of the year**

5.3 The estimate of the cost per month that a visiting Fellow would incur for housing, meals and other incidentals is **about 1000 Euros; which is broken down as follows: housing-300; meals-200; health insurance-300; and miscellaneous - 200.**

5.4 What, if any, registration fees, administrative fees or direct costs would be charged by your institution to host a visiting Fellow? **OSS charges no registration fees will be paid, however OSS will charge its administration fees which is about 15% of the Grand Total Cost.**

5.5 Are there any other requirements that a Fellow must meet to be hosted by your institution? **This is not an obligation, but OSS would prefer to have fellows from its zone of action that is circum-Saharan. These includes Eastern Africa, Western Africa, North Africa and Central Africa)**

---

## 6. Qualifications of the Host Institution (Maximum of 1 page).

---

### 6.1 Institutional Capacity

#### 6.1.1 Sahara and Sahel Observatory (OSS)

The Sahara and Sahel Observatory (Observatoire du Sahara et du Sahel) is highly qualified to play a leading role in environmental and climate matters, especially in implementing the Multilateral Environmental Agreements, and more specifically the Africa parts of the conventions stemming from the Rio process. Its strong points are: geographical location, field experience, members' steadfast support for its approach, and flexibility in its actions. During the last decade, OSS has developed a progressive approach, marked by thought, consultation, information-sharing, which has inspired its partners to focus on certain major environmental concerns facing OSS' African member states. This is the approach that is being advocated for Strategy 2010 whose first four-year phase (2004-2008) is mainly devoted to implementing four major programmes: 1. environmental monitoring 2. joint management of shared water resources, 3. promotion of an African space for development-oriented research, and 4. an information axis.

The Long-Term Ecological Observatories Monitoring Network (ROSELT/OSS) is a major component of DOSE, the Environmental Observation and Monitoring Mechanism, created in 1992 and comprised of 25 observatories or clusters of observatories that have been labelled in 11 countries; 14 of them have been operational since June 2000. The main aim of ROSELT/OSS, which is based on a multidisciplinary and interdisciplinary approach, is to build up knowledge on the mechanisms, causes and consequences of land degradation, to monitor the state and evolution of ecological systems in the long term, and to enhance knowledge of the functioning of these systems and the interactive effects of climate, local populations and natural resources at the local level. With this in mind, ROSELT/OSS seeks to provide reliable products that can be used in decision-making and to facilitate the implementation of development programmes and projects. The final goal is to identify optimal solutions for using natural resources in order to satisfy the needs of the local populations and to prevent and compensate for environmental damage and thus ensure human well-being. In their national action plans to combat desertification (NAP/CD) many countries, (Algeria, Egypt, Kenya, Mali, Morocco, Niger and Tunisia) have recognised ROSELT/OSS as the pillar of the national environmental monitoring mechanisms (DNSE). The ROSELT/OSS observatories are the hard core of the DNSE since they improve

monitoring at the national and sub-regional levels and can be used to confirm trends (observed) in the impacts of climate change and anthropic activities on natural resources. Four countries (Algeria, Mali, Niger and Tunisia) have been selected from among the ROSELT/OSS member states to implement the DNSE using ROSELT/OSS methodologies for collecting and processing environmental information.

Based on the ROSELT/OSS experience and achievements, banking on methodologies and tools that have already been used and a data base on harmonised methodologies that was introduced four years ago in West Africa and eight years ago in North Africa. The participating ROSELT/OSS observatories will serve as "genuine laboratories" for providing local based analyses of adaptation strategies adopted in the north and the south of the Sahara to cope with climate change and variability, especially drought among others. Other areas that fellows could benefit is from water related aspects, management of transboundary resources, ground water management, remote sensing and GIS techniques among others.

## **6.2 Project Experience**

Please describe briefly up to 5 recent or current projects or major activities that demonstrate capabilities of the institution relevant to climate change adaptation. Include information about the objectives, activities, partners, and outcomes for each project. (Maximum of 2 pages).

### **1. ROSELT/OSS**

It is based on a multidisciplinary and interdisciplinary approach, to build up knowledge on the mechanisms, causes and consequences of land degradation, to monitor the state and evolution of ecological systems in the long term, and to enhance knowledge of the functioning of these systems and the interactive effects of climate, local populations and natural resources at the local level. Thus, ROSELT/OSS seeks to provide reliable products that can be used in decision-making and to facilitate the implementation of development programmes and projects. The final goal is to identify optimal solutions for using natural resources in order to satisfy the needs of the local populations and to prevent and compensate for environmental damage and thus ensure human well-being.. These observatories improve monitoring at the national and sub-regional levels and can be used to confirm trends (observed) in the impacts of climate change and anthropic activities on natural resources.

### **2. ACCCA/ UNITAR**

This project analyses climate change and variability, and their effects on natural resources, while evaluating the vulnerability and adaptation of local populations to changes in long-term ecological monitoring observatories (ROSELT/OSS) in the circum-Saharan zone: *Menzel Habib* and *Jeffara* observatories in Tunisia and the *Keita* and *Torodi-Tondikandia-Dandiantou* observatories in Niger. It is a research-action oriented to test an interdisciplinary, multi-spatial, inter-temporal methodology (diachronic and synchronic studies) designed to provide decision-support tools for controlling the effects and impacts of climate change and variability. It further assess the impact of local-level adaptation strategies on the evolution of natural resources. Once completed, it will enable the participating institutions to build up their capacity to understand the effects of climate change and variability and enable the local populations to adapt to various types of risks and change.

The project will be carried out under a regional and international partnership and, hence, will provide for the development of experience sharing and the exchange of methodologies for studying and controlling the effects and impacts of climate change and variability and adaptation strategies for the two sub-regions south and north of the Sahara. It will provide OSS with time-tested experiences and studies on adaptations that can be applied to other observatories and countries in the OSS zone of action.

### **3. ALCOA /OSS- on going**

This research oriented action that characterizes livelihood systems, profiling of vulnerable groups, assessment of past and current climate impacts, and understanding of local perceptions of climate impacts, local coping capacities and existing adaptation strategies. This will help in evaluating best practices for up-scaling and expansion where necessary. It is in this context that this study is being carried out to address the missing information gap on accessibility and use of climate information under different land use types and how the latter influence rural livelihoods. this in ongoing in *Kiboko-Kibwezi* observatory in Kenya.

#### **4. Advancing Climate Change Adaptation in Africa/OSS, as from September 2007**

This was to identify the institutions working in on climate change adaptation in North Africa ; in order to enhance the partnership on the questions related to climate change, vulnerability and adaptation. Indeed, the real goal of the institutional mapping was to analyse the strengths and weaknesses of these institutions, and the opportunities of collaboration through the ACCA Programme.

#### **5. Intergovernmental Panel on Climate Change (IPCC)/OSS, April 2008**

This is a project that was based on the concept that In Africa, development is strongly linked to climate, climate change and variability that jeopardise livelihoods, with great significant impacts on rural and national economies. One of the challenges in addressing these setbacks has been inadequate capacity of Africa in climate science. The individuals and institutions at different levels lack or have limited knowledge and information on climate and in cases where the knowledge exists, it is hardly accessible due to lack of coordination, networking and integration. It is in this context that OSS and the IPCC Technical Support Unit signed a Memorandum of Understanding (MOU) to jointly organise a regional outreach workshop for researchers and research coordinators from Africa to disseminate the findings of the IPCC Fourth Assessment Report. This was to enhance and broaden the knowledge base of Africans on climate science and its related aspects. The outreach hosted more than 80 researchers and scientist from the whole of circum-Saharan zone.

#### **6.3 Publications Record**

Observatoire et du Sahara et du Sahel (OSS). 2007. Introductory note one : climate change adaptation and fight against desertification. Tunis, Tunisia.

Observatoire et du Sahara et du Sahel (OSS). 2008. Introductory note two : climate change adaptation and fight against desertification. Tunis, Tunisia.

ROSELT/OSS CT1, 2006. Guide ROSELT/OSS pour l'évaluation et la surveillance de la flore et de la végétation.

ROSELT/OSS CT2, 2005. Guide ROSELT/OSS pour l'évaluation et le suivi des pratiques d'exploitation des ressources naturelles, Collection ROSELT/OSS, contribution technique n°2, Montpellier, 133 p.

ROSELT/OSS DS4, 2004. Indicateurs écologiques ROSELT/OSS. Une première approche méthodologique pour la surveillance de la biodiversité et des changements environnementaux, collection ROSELT/OSS, document scientifique n°4, Montpellier, 50 p. + annexes.

ROSELT/OSS DS3, 2004. Concepts, méthodes et mise en œuvre du SIEL-ROSELT/OSS (Système d'Information sur l'Environnement à l'échelle Locale), collection ROSELT/OSS, document scientifique n°3, Montpellier, 70 p.

ROSELT/OSS DS2, 2004. Organisation, fonctionnement et méthodes de ROSELT/OSS, collection ROSELT/OSS, document scientifique n°2, Montpellier, 54 p.

ROSELT/OSS DS1, 2004. Conception, organisation et mise en œuvre de ROSELT/OSS, collection ROSELT/OSS, document scientifique n°1, Montpellier, 84 p.+ annexes.

### **OSS Staff**

- Environment Programme: Seven technical staff (all with MSc in different environmental aspects including ecology, natural resource economics, agriculture, GIS/Remote sensing among other forming an interdisciplinary team).
- Water programme: Nine technical staff (MSc-3 and PhD-6 in different water aspects including modelling, hydrology, h
- Research for development: Three technical staff (MSc-2; PhD-1)
- Information: Three personnel
- Administration: Seven personnel

### **6.4 Experience Hosting Fellows**

The OSS has hosted the following fellows in the in the past 5 years

- Post-doctoral: none
- Doctoral: Two
- Policy: One
- Teaching: Three
- Other types (Masters) : Eight

---

## **7. Qualifications of Collaborating Institutions**

### **7.1 Institutional Capacity**

#### **7.1.1 Institut des Régions Arides (IRA, Tunisia)**

IRA (institute for the arid regions) was established as a public entity in 1976. In 1991 it was attached to the *Secrétariat d'Etat à la Recherche Scientifique et à la Technologie* (secretary of state for scientific research and technology) and since 2004, it has been under the *ministère de la Recherche scientifique, de la Technologie et de l'Amélioration des compétences* (Ministry for Scientific Research, Technology, and Up-skilling). Its missions: conducting scientific research in agricultural development, protection and conservation of natural resources, and desertification control in the arid and Saharan parts of the country; training and capacity building for technical staff and research scientists, in natural resources management, aridoculture, and combating desertification; extending the achievements of research and supervising regional development and farmers organisations in the subjects listed above; carrying out integrated agricultural development projects and studies for national and international organisations. To fulfil its mission, IRA has five scientific departments (eremology and desertification control, aridoculture and oasis farming, livestock and wildlife, rural society and economics, pastoral ecology), an extension work and development projects department, an information and documentation department and a training department. Since its inception, IRA has carried out and/or contributed to research and to development projects in the dry regions of the country, trained specialists in natural resources conservation and desertification control, together with national and international organisations and agencies. Thanks to its very close cooperation with the European Union, IRA benefited from many cooperation projects funded through various EC programmes such as STD and INCO-DC even before the 1995 association agreement was signed.

#### **7.2 Relationship with Host Institution: Institut des Régions Arides (IRA, Tunisia) and OSS**

*Institut des Régions Arides* has been a along time of OSS since the early 1995 when the ROSELT/OSS started operating; since OSS does not work at local levels directly, it liases with national instutions to ensure that these institutions do data collection and information management at local level' learning by doing and OSS only comes in to facilitate the monitoring initiatives and offer relevant and needed expertise to ensure collection of good quality data and how the data is analysed and interpreted to generate meaningful information that can support decision making. IRA is the national institutions that coordinates the monitoring of environment at the local level in the Tunisian two observatories namely *Menzel*

*Habib and Jeffara.* These observatories have generated very useful that has enabled the Tunisian government to make relevant interventions on environmental management. OSS has in the past sent some of the interns to stay at some of the observatories and not only in Tunisia to have a feel of what happens on the ground. Lastly, this is an institution that is dynamic and always sending its staff for continuous training to act as trainers of trainers both nationally and internationally. Also based on the IRA experience, they receive many students every year to benefit from the knowledge and training from research to policy reviews and actual implementation.

---

## **8. Supervisor/Mentor Team**

---

8.1. Name: DESJARDINS Melanie

Title and institutional affiliation: Observatoire du Sahara et du Sahel – Tunisie

Highest degree: PhD

Discipline of degree, and name of conferring institution

Areas of expertise: socio-economics, desertification, and livelihoods, natural resource economics.

Number and types of fellows supervised in past 5 years: Four

8.2 Name: ABOUBACAR Issa

Title and institutional affiliation: Observatoire du Sahara et du Sahel – Tunisie

Highest degree: MSc

Discipline of degree:

Name of conferring institution: Ecole Nationale du Génie Rural et des Eaux et Forêts (ENGREF) France

Areas of expertise : Formation forestière pour les régions chaudes».

Number and types of fellows supervised in past 5 years:

8.3. Name: SGHAIER Mongi

Title and institutional affiliation

Highest degree: PhD

Discipline of degree : Agronomiques (économie des ressources naturelles et de l'environnement)

Name of conferring institution : Faculté des sciences agronomiques, Université de Gand, Belgique : 1995

Areas of expertise: Economy of the natural resources and the environment, Agronomy

Number and types of fellows supervised in past 5 years: Twelve

8.4 Name: Alhamndou Dorsouma

Title : Climate change focal person, Observatoire du Sahara et du Sahel – Tunisie

Highest degree: MSc

Discipline of degree, and name of conferring institution

Areas of expertise:

Number and types of fellows supervised in past 5 years:

8.5 Name: Ben Khatra Nabil

Title : Responsable Communication et Système d'Information à l'Observatoire du Sahara et du Sahel (OSS) –Tunisie

Highest degree: Diplôme d'Ingénieur Agronome de Discipline of degree:

Name of conferring institution : l'Institut National Agronomique de Tunis

Areas of expertise: *Téledétection et Systèmes d'Informations Géographiques.*

Number and types of fellows supervised in past 5 years: Five

8.6 Name: Amwata Dorothy

Title :Junior, Research for Development, Observatoire du Sahara et du Sahel – Tunisie

Highest degree: MSc

Discipline of degree, MSc, University of Nairobi, Kenya

Areas of expertise: Natural resource economics, ecology, livelihoods, land-use and rangeland management;

Number and types of fellows supervised in past 5 years: 1

### **Curriculum Vitae of the Supervisors and or Mentors**

---

**Nom et prénom:** ABOUBACAR Issa

**Date et lieu de naissance :** 03/01/1954

**Nationalité :** Niger

**Affectation actuelle :** Observatoire du Sahara et du Sahel – Tunisie

**Email :** [Issa.aboubacar@oss.org.tn](mailto:Issa.aboubacar@oss.org.tn)

---

#### **FORMATION**

**1982** Diplôme de spécialisation post universitaire (Master), Ecole Nationale du Génie Rural et des Eaux et Forêts (ENGREF) France, spécialité « formation forestière pour les régions chaudes».

**1981** Diplôme d'ingénieur Agronome Université de Niamey, Niger

---

#### **DOMAINE DE COMPETENCE**

Élaboration et évaluation de projets gestion des terroirs/ gestion des ressources naturelles.

Mise en oeuvre de la Convention des Nations Unies sur la lutte contre la désertification (CCD), particulièrement de son système de suivi-évaluation.

Renforcement des capacités des acteurs de GRN par la formation action

---

#### **EXPERIENCE PROFESSIONNELLE**

2000 - 2008 Coordinateur du programme mise en oeuvre de la CCD et expert en suivi-évaluation à l'OSS, Tunis, Tunisie

1995 -2000 Coordinateur du projet Appui aux stratégies et politiques de lutte contre la désertification du CILSS, Ouagadougou, Burkina Faso

1992 - 1995 Coordinateur de la cellule de gestion des ressources naturelles et du Projet GRN (Banque Mondiale) du Niger

1985 - 1992 Directeur du département des recherches forestières à l'Institut National de la Recherche Agronomique du Niger à Niamey

1983 - 1985 Directeur adjoint des eaux et forêts, Ministère de l'Hydraulique et de l'Environnement du Niger à Niamey

1985 - 1992 Directeur départemental des eaux et forêts de Dosso au Niger

---

#### **AUTRES EXPERIENCES PROFESSIONNELLES**

1986 – 1995 Consultation en aménagement des terres (FAO, PNUD)

1992 -1995 Consultation en suivi-évaluation des ressources naturelles (Banque Mondiale, ACDI, Care international)

1992 – 1995 Chargé de cours en foresterie et aménagement des terres à l'Université de Niamey au Niger

1996 – 2000 Membre du groupe d'expert de la FAO sur les ressources génétiques forestières

---

## **AUTRES CONNAISSANCES**

---

**Langues :** Français: très bien ; Anglais : assez bien. **Informatique :** assez bien

## CURRICULUM VITAE

**Nom et prénom:** SGHAIER Mongi

**Date et lieu de naissance :** 27/11/1958 à Kébili

**Nationalité :** Tunisienne

**Adresse :** Institut des Régions Arides, Fjé, 4119 Médenine, Tél : 00216 05 6330044 , 00216 05 6330005; Fax : 00216 05 633 006, e-mail : [s.mongi@ira.rnrt.tn](mailto:s.mongi@ira.rnrt.tn)

**Grade :** Directeur de recherche - Agro-économiste depuis 2002

**Affectation actuelle :** Institut des Régions Arides Médenine – Tunisie



### Formation académique

- Doctorat d'état en Sciences Agronomiques (économie des ressources naturelles et de l'environnement) : Faculté des sciences agronomiques, Université de Gand, Belgique : 1995
- Diplôme de fin d'étude du cycle de spécialisation (3ème cycle) de l'Institut National Agronomique de Tunis (INAT), économie rurale : 1984
- Diplôme d'Ingénieur Agronome, option économie rurale, de l'INAT: 1982
- Baccalauréat Maths Sciences : 1978

---

### PRINCIPLES RESPONSABILITES ET FONCTIONS

---

- Directeur de recherche depuis 2002
- Directeur de la Vulgarisation et des Projets de Développement à l'Institut des Régions Arides : depuis 1992.
- Chef du laboratoire « Economie et sociétés rurales » à l'IRA de Médenine depuis 2002
- Membre de la commission nationale de programmation de la recherche en aridologie, chargé de la valorisation des acquis de la recherche.
- Membre de la commission nationale de valorisation des acquis de la recherche agronomique présidée par monsieur le ministre de l'agriculture.
- Membre du Groupe Technique de Travail (GTT) auprès du secrétariat de l'Organe National de Coordination (ONC) de l'UNCCD en Tunisie et auprès des projets de suivi évaluation du PAN/LCD (PTI-SE, SMAP, ROSELT) 2000-2004
- Coordinateur scientifique ROSELT/OSS de l'observatoire de Menzel Habib sur le suivi évaluation de la désertification.
- Membre du comité national de sélection des projets FEM/ONG, PNUD Tunisie 1995-1998.
- 

---

### EXPERIENCE DANS LES PROJETS DE RECHERCHE-DEVELOPPEMENT ET DE COOPERATION

---

- Projet M&M "Developing Sustainable Livelihoods of Agropastoral Communities of West Asia and North Africa, ICARDA, **Membre de l'équipe (2006-2009)**.
- Projet de suivi évaluation de la désertification en Afrique et en Europe , projet DESURVEY, **Coordinateur national et membre de l'équipe (2005-2010)**.
- Projet de surveillance environnementale à long terme (ROSELT), **Coordinateur et membre de l'équipe (2002-2010)**.
- Projet de gestion des ressources naturelles en zones arides (SUMMAMD) **membre de l'équipe (2005-2008)**.
- Projet de gestion des ressources naturelles en zones arides au sein du contrat programme du laboratoire « Economie et sociétés rurales » de l'IRA **Coordinateur et membre de l'équipe (2002-2006)**.
- Projet expérimental de développement local « innovation rurale en zones difficiles » dans le cadre de la coopération décentralisée et les programmes LEADER, **Coordinateur et membre de l'équipe (2002-2006)**.
- Projet INCO-DC sur " Suivi des changements à long terme des écosystèmes en Méditerranée à travers l'observation par télédétection ", CAMELEO, **(1999-2001), membre de l'équipe**.
- Programme National Mobilisateur (PNM) DYPEN II " Observatoires des relations populations - milieux naturels pour un développement durable en milieu rural tunisien ",

Observatoires de Menzel Habib, Faouar, Bargou et Kroumirie , **Coordinateur national et membre de l'équipe (1996-2000).**

- Projet de recherche-formation sur le développement des zones arides, coopération Tuniso-Française, IRA CIHEAM-IAM, **(1995-1997), coordinateur et membre de l'équipe du projet.**

#### **Expérience dans les études et consultations**

- Consultant auprès du Ministère de l'Environnement et du développement durable et de la GTZ pour réaliser l'étude de l'élaboration du Plan d'Action Local de Lutte Contre la Désertification (PALLCD) dans la délégation de Béni Khédache (Gouvernorat de Médenine) et dans la région du Chareb (Gouvernorat de Kébili) **2006**
- Consultant auprès du Ministère de l'Agriculture de l'Environnement et des ressources hydrauliques et de la GTZ pour réaliser l'étude de l'élaboration du Plan d'action local de LCD (PALLCD) à Ségui Menchia, gouvernorat de Kébili et de la réalisation d'un guide méthodologique **2003-2004.**
- Consultant auprès de la Banque Mondiale et le CRDA de Médenine (Ministère de l'Agriculture) pour la réalisation de la factibilité économique du projet de développement participatif des parcours collectifs d'El Ouara de Médenine dans le cadre du PGRN Elaboration du Plan de Développement Intégré et Participatif (PDIP) des parcours d'El Ouara. **2003-2004.**
- Consultant auprès du Ministère de l'Agriculture de l'Environnement et des ressources hydrauliques et l'OSS : Intégration des activités du projet SMAP dans le cadre du dispositif national de suivi-évaluation du Plan d'Action National (PAN) de la lutte contre la désertification. **mars 2003**
- Consultant auprès de la FAO : l'évaluation économique des impacts des aménagements de CES dans le bassin versant de Zeuss-Koutine **juillet 2003.**
- Consultant auprès du Ministère de l'Environnement et de l'Aménagement du Territoire (MEAT), Mécanisme Mondial et OSS, Orientations stratégiques pour la mise en place d'un système de suivi-évaluation du Plan d'Action National (PAN) de la lutte contre la désertification. **Sept. 2001.**
  
- Consultant auprès de la Banque Mondiale et le CRDA de Médenine (Ministère de l'Agriculture) pour la réalisation du diagnostic agro-socio-économique des parcours collectifs d'El Ouara de Médenine dans le cadre du PGRN Elaboration du Plan de Développement Intégré et Participatif (PDIP) des parcours d'El Ouara. **2000.**
- Consultant auprès du PNUD, **2002** : Cadre stratégique de coopération PNUD/MEAT 2002-2006.
- Consultant auprès du Ministère de l'Environnement et de l'Aménagement du Territoire (MEAT) GTZ et OSS , Identification des indicateurs de suivi de la désertification et du Plan d'Action National (PAN) de la lutte contre la désertification. **1999**
- Consultant auprès du Ministère de l'Environnement et de l'Aménagement du Territoire (MEAT) GTZ et OSS , Mise en place d'une approche de suivi-évaluation du Plan d'Action National (PAN) de la lutte contre la désertification. **Novembre 2000**
- 
- Consultant auprès de la Banque Mondiale et le CRDA de Médenine (Ministère de l'Agriculture) pour la conception de l'approche d'élaboration du Plan de Développement Intégré et Participatif des parcours d'El Ouara de Ben Gardane. **1998-1999.**

#### **Langues**

| Parlée     | Lue       | Ecrite    |           |
|------------|-----------|-----------|-----------|
| • Arabe    | très bien | très bien | très bien |
| • Français | très bien | très bien | très bien |
| • Anglais  | moyen     | bien      | moyen     |

#### **Publications sectionnées**

**Sghaier M. (1999)** : Identification des indicateurs de suivi de la désertification et du Plan d'Action National (PAN) de la lutte contre la désertification MEAT et OSS

**Sghaier M. (2001)** : Orientations stratégiques pour la mise en place d'un système de suivi-évaluation du Plan d'Action National (PAN) de la lutte contre la désertification. MEAT, Mécanisme Mondial et OSS.

**Sghaier M.**, Abaab A., Campagne P., 2006 : "L'expérimentation de nouvelles approches de développement local et de gestion participative des ressources naturelles", à paraître in Genin D., Guillaume H., Ouessar M., Ouled Belgacem A., Romagny B., Sghaier M., Taâmallah H. (éds. sci.), *Entre désertification et développement. La Jeffara tunisienne*. Tunis, IRD-IRA-Céres éditions.

**Sghaier M.**, Jaoued M., Tbib A., Fetoui M., Ben Abed M.A., Louhichi M., Saidi N., Ounalli N., Khadkhadhi K., 2006 : surveillance socioéconomique, pratiques et usage des ressources naturelles dans l'observatoire de Haddaj Bou Hedma – Tunisie. Rapport scientifique, Réseau d'observatoires de surveillance écologique à long terme ROSELT/OSS, 110 p.

**Sghaier M.**, Ben Abed M.A., Fetoui M., Bennour L., Jaoued M., 2006 : systèmes d'information d'environnement à l'échelle locale (SIEL) : Cas de l'observatoire de Menzel Habib et installation de MDweb (Tunisie). Rapport scientifique, Réseau d'observatoires de surveillance écologique à long terme ROSELT/OSS, 41 p.

#### **Edition d'ouvrages**

Picouet M., **Sghaier M.**, Genin D., Abaab A., Guillaume H., Elloumi M., 2004 : Environnement et sociétés rurales en mutation. Approches alternatives, IRD-IRA Ed. collection latitude 23, Paris, 391 p.

Genin D., Guillaume H., Ouessar M., Ouled Belgacem A., Romagny B., **Sghaier M.**, Taâmallah H., 2006 : Entre désertification et développement. La Jeffara tunisienne. IRD-IRA-Céres Ed.

## AL - HAMNDOU DORSOUMA

---

### PERSONAL DETAILS

---

**Date and place of birth:** 20 May 1974 in N'Djamena (Chad)  
**Nationality:** Chad  
**Marital status:** Married  
**Current job:** Climate Change Officer  
**Institution:** Sahara and Sahel Observatory (OSS)  
**Department:** Environment Programme  
**Professional address:** Sahara and Sahel Observatory (OSS)  
Boulevard de l'Environnement, B.O. 31-1080 Tunis Cedex Tunisia  
Tel.: (+216) 71 206 633. Fax: (+216) 71 206 636. E-mail:  
[dorsouma.ahamandou@oss.org.tn](mailto:dorsouma.ahamandou@oss.org.tn)  
**Personal address:** Résidence El Ons, B.O. 2037 Cité En Nasr 2, Tunis  
GSM: (+216) 20 685 302. E-mail: [dalhamdou@yahoo.fr](mailto:dalhamdou@yahoo.fr); [dalhamdou@hotmail.com](mailto:dalhamdou@hotmail.com)



---

### EDUCATION

---

**2003-2005:** Master in Environmental management, International Senghor University (Alexandria, Egypt)  
**1999-2001:** Master in Geography, University of N'Djamena (Chad)  
**1997-1998:** Bachelor in Geography, University of N'Djamena (Chad)  
**1994-1995:** Baccalaureate of Sciences, Felix Eboué Secondary School of N'Djamena (Chad)

---

### CAREER HISTORY

---

**2006-2008:** Climate Change Officer in Sahara and Sahel Observatory (OSS)  
**2005-2008:** Member of the International Consortium for the environmental impacts assessment of armed conflicts (PECA/DRC)  
**2007-2008:** Member of the international group of experts of the « Nairobi Work Programme on Adaptation (NWP) in the framework of the United Nations Framework Convention on Climate Change (UNFCCC)  
**2007-2008:** Member of the scientific committee of the Technical and Agricultural Cooperation Centre (CTA) for the organisation of a regional workshop on the impacts of climate change on the agro systems in ACP countries, Ouagadougou (Burkina Faso), October 2008.  
**2005:** Environmentalist in the Sahara and Sahel Observatory (Tunis)  
**1997-2005:** Executive Secretary on the NGO « *Earth Friends Chadian Association* » in Chad (ASTAT) »  
**2001-2003:** GIS Trainer in the Centre for Computer Science (Chad)  
**2000-2003:** Sociology of Development's Trainer (Office of Rural and Urban development Animation, Chad)  
**2001-2002:** Manager of Tele-Info Services (national SME), N'Djamena (Chad)  
**1999-2000:** Coordinator of « Youth Action against Hunger and Desertification », FAO/Chad project  
**1997-2000:** Professor of Geography.

---

### PROFESSIONAL PRACTICUM'S

---

**November 2005:** Sahara and Sahel Observatory (OSS)  
**May-September 2004:** International Francophone Secretariat for Environmental Assessment (SIFEE), Montreal – Canada.  
**November 2004:** African Evaluation Association, Cap Town (South Africa)  
**December 2002:** National Research Centre (CNAR)/Laboratory of Remote Sensing and GIS  
**June 2002:** General Direction of Mining and Energy, « Geology and Sustainable Development in Chad » Project, Laboratory Geo Chad 2020.

---

### RECENT WORKS

---

- **Strategic documents**

« Institutional mapping of adaptation to Climate Change in North Africa », partnership OSS/ACCA-IDRC

« North African Sub-Regional Environmental Action Plan », partnership OSS/UNEP

« Libyan Environmental Action Plan (LEAP) », partnership EGA/UNEP/OSS

« Adaptation to Climate Change and Fight against Desertification » (OSS introductive note)

« Vulnerability and Adaptation to Climate Change in Circum-Saharan zone: necessity of regional cooperation and role of the environmental information » (OSS study)

« Adaptation to Climate Change: a development issue », OSS strategic note

- **Recent research articles**

« Armed Conflicts and environment: framework, modalities, methods and role of environmental assessment (a synthesis) », 2007, co-written with Michel André Bouchard, in Sustainable Development and Territories Journal, <http://developpementdurable.revues.org/document3365.html>

« Climate, development and Sustainable development in Africa », 2007, co-written with Youba Sokona and Mélanie Requier-Desjardins, "Liaison-Energie Francophone" Journal, Number 75, <http://www.iepf.org/ressources/ressources-pub-desc.php?id=261>

« Adaptation to Climate Change and Fight against Desertification: an integrated approach », 2007, co-written with Mélanie Requier-Desjardins, Vertigo Journal, <http://www.vertigo.uqam.ca/>

- **Communications**

"Combating desertification and Adaptation to climate change in Africa: development first", Side event OSS/GTZ, Buenos Aires (Argentina)

« Land degradation and adaptation to Climate change: which implications for agricultural development in the circum-Saharan zone », Donor meeting, African Development Bank, Tunis

« Fighting against desertification, Adaptation to climate change and Development in Africa: towards an integrated approach », Tunis Conference on Solidarity and Climate change

« The Circum-Sahara between environmental challenges and forced migrations », OSS Round Table, 2008 General Assembly, Tripoli (Libya)

« Migration, Environment and Development in Africa », International Organisation of Migration's Workshop, Dakar (Senegal)

"Combating Desertification to boost Adaptation to Climate Change in Africa », Regional Workshop, CCAA/IDRC programme, Addis Ababa (Ethiopia)

"Fighting against desertification and Poverty reduction in Africa: towards an integrated approach", Ouagadougou, November 2006

"The Observational and Environmental Assessment Device: an environmental risk prevention and mitigation tool for Africa », SIFEE Conference; 2006

« Spatio-temporal and Socio-cultural evolution of N'Djamena city: lessons for the future », CIDEF-AFI's Workshop, March 2006.

« Darfur's Armed conflict (Sudan): environmental and humanitarian issues », PECA/DRC Workshop, October 2004.

« Democratic management of the districts of N'Djamena city », Inter-academic network of urban and regional studies, [http://www.vrm.ca/democratie\\_management.asp#3](http://www.vrm.ca/democratie_management.asp#3)

« International framework of the environmental protection in the context of armed conflict », SIFEE Conference, Ouagadougou, September 2004.

« The armed conflict of Darfur: from the environmental crisis to a humanitarian crisis », October 2004

« Armed conflicts and environment: main issues, challenges and outlooks », May 2008 (Kinshasa, DRC)

- **Thesis studies**

**January 2001:** « Environmental management and rural development in African Sahelian region: the case study of Madiago zone (Chad) » (Master's thesis of Geography), University of N'Djamena.

**2004-2005:** « Environmental assessment as a tool of prevention and mitigation of environmental impacts of armed conflicts » (Environmental management Master's thesis), International Senghor University of Alexandria (Egypt).

---

## CONFERENCES AND WORKSHOPS

---

**26 - 30 May 2008:** Regional workshop on « Impacts of Armed conflicts on life quality, human health and biodiversity », International Consortium PECA/DRC, Kinshasa (RDC)

**17 - 19 March 2008:** Regional workshop on « Migration and Socioeconomic development in Africa », International Organisation of Migration (IOM), Dakar (Senegal).

**03-14 December 2007:** 9th Conference of parties of the United Nations Framework Convention on Climate Change (UNFCCC), and Side event OSS/IDRC on « Adaptation to Climate Change in Africa: towards regional solutions », Bali (Indonesia).

**December 2007:** African regional workshop on the “Strategic Framework of Food Security in Africa”, CILSS/NEPAD, Saly-Portudal Dakar (Senegal)

**November 2007:** European Development Days (EDD), European Union (EU), Lisbon (Portugal)

**03-13 March 2007:** 5th Session of the Committee of the Review and Implementation of the Convention (CRIC/UNCCD), Buenos Aires (Argentina)

**July 2007:** Experts meeting of the Nairobi Work Programme (NWP) on Vulnerability and Adaptation to Climate Change, Cairo (Egypt)

**November 2006:** International Symposium on « Academic trainings and Careers of development in Africa », Ouagadougou (Burkina Faso)

**12-15 March 2006:** Francophone workshop on « Knowledge, learning and culture's Dissemination: Alexandria, the metaphor of French spoken countries », CIDEF-AFI, Alexandria (Egypt)

14-24 June 2005: **Summer School on « Agriculture and Sustainable Development: Concepts, Tools and Methods » and SIFEE Conference on: « Environmental Assessment and Sustainable agricultural development », Angers (France)**

19-23 December 2005: **Regional trainers Training on « Environmental Impacts Assessment for the French Spoken countries », UNEP/AIAI/CITET, Tunis (Tunisia)**

11-14 July 2004: **8th Biennial Scientific Conference of the International Society for Ecological Economics (ISEE), Montreal-Canada.**

July 2004: **Summer School on « Economics and Water », Montreal-Canada.**

September 2004: **Hydro Quebec's Workshop on environmental project's management, Alexandria - Egypt.**

September 2004: **Workshop of the Environmental Assessment Specialists on: « From Environmental Assessment to Sustainable Development Assessment », Ouagadougou.**

25-27 October 2004: **Thematic workshop on « Environmental Impacts of Armed conflicts in DRC », Kinshasa-RDC.**

28 November - 04 December 2004: **International Conference of African Evaluation Association: « Development, Democracy and Governance: issues of Evaluation in Africa », Cap Town-South Africa.**

23-26 May 2003: **International meetings on « Democracy and Local Management », Quebec-Canada.**

---

**FIELDS OF EXPERTISE**

---

**Environment, Sustainable Development, Monitoring-Evaluation, Environmental Assessment, Armed Conflicts, Environmental project's management, Adaptation to Climate Change, Fight against desertification, Environmental monitoring, Project management, Sociology of development.**

---

**LANGUAGES**

---

| <i>Languages</i> | <i>Aptitudes</i> |                  |
|------------------|------------------|------------------|
|                  | <i>Writing</i>   | <i>Speaking</i>  |
| <b>French</b>    | <b>Excellent</b> | <b>Excellent</b> |
| <b>English</b>   | <b>Very Good</b> | <b>Very Good</b> |
| <b>Arabic</b>    | <b>Bad</b>       | <b>Good</b>      |

---

**COMPUTER**

---

Microsoft Windows, Word, Excel, Power Point, Access, Publisher, MS Project, Visio, Map info, Arc View.

Certified exact, Tunis, 14 June 2008.



## CURRICULUM VITAE

**Nom et prénom** Nabil BEN KHATRA  
**Date et lieu de naissance** 03 Juillet 1969 à Tunis  
**Nationalité** Tunisienne  
**Adresse** 8, rue de l'alcazar de Séville  
2076 - La Marsa  
**Téléphone** (216) 98 574 300

---



### DIPLOMES

- 1994**                    **MASTER SILAT** : "Systèmes d'Informations Localisées pour l'Aménagement des Territoires" organisé par l'ENGREF, l'INAPG et l'ENSAM (France).  
*Téledétection et Systèmes d'Informations Géographiques.*  
*Mémoire de Stage* : " Téledétection appliquée aux statistiques agricoles tunisiennes - SOTEMA - Toulouse.
- 1993**                    **Diplôme d'Ingénieur Agronome de l'Institut National Agronomique de Tunis**  
*Mémoire de fin d'études* : " Détection du stress hydrique chez le blé dur par thermométrie infra-rouge ".
- 1988**                    **Baccalauréat Math - Sciences**
-

## EXPERIENCES PROFESSIONNELLES

|                      |   |
|----------------------|---|
| <b>Avril 2003</b>    | Responsable Communication et Système d'Information à l'Observatoire du Sahara et du Sahel (OSS)     |
| <b>Décembre 2002</b> | Responsable de l'Observatoire du Littoral, Agence de Protection et d'Aménagement du Littoral (APAL) |
| <b>Février 2000</b>  | Ingénieur Agronome à l'APAL – Unité Système d'Information du Littoral                               |
| <b>Janvier 1995</b>  | Ingénieur Agronome au Centre National de Télédétection  |

---

## PROJETS ET ETUDES REALISES

Participation au développement conceptuel, méthodologique et d'outil pour la mise en oeuvre d'un dispositif national de suivi-évaluation de la mise en oeuvre du PAN/LCD - DG/EQV

Etude portant sur l'analyse des acquis de l'OSS en matière d'utilisation de l'observation spatiale pour le suivi environnemental - OSS.

Développement d'une démarche pour l'établissement d'un état de la désertification par l'intégration de données multi sources (satellitaires, météorologiques, socio-économiques, écologiques...) – DG/EQV.

Elaboration d'un schéma de cohérence informatique pour la circulation de l'information dans le cadre de la mise en oeuvre du dispositif de suivi-évaluation du Programme d'Action National de Lutte Contre la Désertification – DG/EQV.

Conception et élaboration d'une base de données sur les efforts de lutte contre la désertification et leurs impacts sur les ressources naturelles et les populations locales – DG/EQV.

Réalisation des cartes d'occupation du sol pour les dix gouvernorats du sud de la Tunisie dans le cadre du projet Carte Agricole. Client : ST2I, pour le compte du Ministère de l'Agriculture, de l'Environnement et des Ressources Hydrauliques.

Assistance technique pour l'Agence Foncière Agricole dans la mise en place de son système d'information ; état des lieux, analyse de l'existant et proposition d'une organisation du futur système d'information. Projet financé par la FAO.

Contribution à l'élaboration des termes de références pour la réalisation d'une base de données cartographique numérique au 1/5000 pour l'Observatoire du Littoral; de la Prise de vue aérienne à l'élaboration du modèle de données.

Chef de projet : Etude de l'évolution urbaine, de l'occupation du sol et de l'état réglementaire des espaces urbanisés du Grand Tunis, Grand Sousse et Grand Sfax - *Client : Direction de l'Urbanisme.*

Participation à la conception du projet SPATIO 2000 (mise en place d'une base de données à références spatiales à partir de données satellitaires). Centre National de Télédétection.

Réalisation de la carte d'occupation du sol de la région d'El Faouar dans le cadre du projet de recherche DYPEN – Centre National de Télédétection (CNT).

Mise en place d'une méthodologie de suivi de la désertification par l'utilisation de l'imagerie satellitale multi-sources : Passage d'échelle.- Projet CAMELEO, CNT.

Sécurité Alimentaire : Suivi par télédétection de la situation agricole nationale au cours de la campagne agricole - Projet National Mobilisateur – CNT.

Etude des centres urbains moyens dans les pays du bassin méditerranéen (En collaboration avec le Laboratoire Images et Villes au CNRS de Strasbourg - France , financée par la Communauté Economique Européenne).

Réalisation des cartes d'occupation du sol et de spatio-cartes sur les villes de Sousse, Mahdia et Zarzis - *Client Direction de l'Urbanisme.*

Etude de l'occupation du sol et cartographie du réseau hydrographique dans les bassins versants du Gouvernorat de Mahdia - *Client : E C A T.*

Cartographie à partir de données satellitales des travaux CES réalisés dans le Gouvernorat de Médenine - Client : CNEA.

Cartographie des oasis de la région de Gabès à partir des images satellitales - *Client : Direction de l'Urbanisme.*

Elaboration des statistiques d'occupation du sol à partir de classifications sur des images satellitales multispectrales sur la région du Grand Tunis. - *Client : AUGT.*

Etude de l'occupation du sol sur un couloir de 40 Km de largeur de M'Saken jusqu'à Ras Jedir pour l'optimisation du choix des couloirs autoroutiers dans le cadre du projet Autoroute Maghrébine - *Client : SCET TUNISIE.*

Calcul de l'ensoleillement reçu pour un zonage homogène des vignobles dans la région de Pezenas (Département de l'Hérault - France). - ENGREF Montpellier - France.

Protection du littoral : simulation de scénarios d'aménagement et leurs impacts dans le Golfe de Hammamet par analyses spatiales sous Arc/Info- Projet National Mobilisateur.

---

## STAGES SUIVIS

|                       |  |
|-----------------------|--|
| <b>Mai à</b>          | Projet MARS " Monitoring agriculture by remote sensing "   |
| <b>Novembre 1994</b>  | (Suivi de la situation agricole par télédétection dans les pays de la CEE - Aspect : <b>Superficies</b> ) SOTEMA - Toulouse France.  |
| <b>Juin 1997</b>      | Projet MARS " Monitoring Agriculture by Remote Sensing "<br><br>(Suivi de la situation agricole par télédétection dans les pays de la CEE - Aspect : <b>Rendements</b> ) CCR - Ispra - Italie.                 |
| <b>Juin 1998</b>      | Module de formation sur le logiciel ERDAS présenté au profit des ingénieurs du CNT.  |
| <b>Septembre 1999</b> | Techniques de mesures sur terrain : échantillonnage aréolaire, spectro-radiométrie et GPS. (Projet CAMELEO) Ouarzazet - Maroc.   |
| <b>Juin 1999</b>      | Bases de données à références spatiales : BD topo., BD Carto. et Géoroute. IGN - Saint Mandé - France.   |
| <b>Octobre 1999</b>   | Production de masse de cartes thématiques et de spatio-cartes à partir d'images satellitales et de photographies aériennes : définition, mise en place et conduite de projets. IGN Espace - Toulouse - France. |

|                      |   |
|----------------------|---|
| <b>Juillet 2000</b>  | Audits environnementaux : détermination des objectifs, élaboration de plan détaillé et conduite d'audits. Institut Fresenius - Wiesbaden Allemagne.   |
| <b>Décembre 2001</b> | Stage SIG-im plus organisé par le Groupement pour le Développement de la Télédétection Aérospatiale. Toulouse – France.   |
| <b>Février 2002</b>  | Atelier de formation sur les méthodes d'inventaire <i>Medgéobase</i> et <i>MedWet</i> : Utilisation des photographies aériennes et des images satellitaires comme source d'information. Lisbonne – Portugal |
| <b>Juin 2003</b>     | Pratiques SIG et formation sur les différents modules d'ArcGis. Maison de la Télédétection – Montpellier – France.  |

---

### FORMATIONS ASSUREES

|                      |   |
|----------------------|---|
| <b>Septembre</b>     | Présentation d'un cours de télédétection pour la formation BS2  |
| <b>Octobre 1996</b>  | au profit des techniciens du Centre National de Télédétection :<br><br><i>Introduction à la télédétection</i>   |
| <b>Juillet 1998</b>  | Présentation de cours et de travaux pratiques sur le suivi de l'évolution urbaine par imagerie satellitale dans le cadre de l'université d'été organisée par le Centre National des Etudes Spatiale (France) et ayant pour thème Espace et environnement méditerranéen.   |
| <b>Juin 1999</b>     | Présentation de cours et de travaux pratiques sur l'utilisation du GPS au profit des membres de l'équipe du projet IPAMED (INP).  |
| <b>Décembre 1999</b> | Présentation d'un cours de télédétection pour la formation BS3<br><br>au profit des techniciens du Centre National de Télédétection :<br><br><i>Agriculture et télédétection.</i>   |
| <b>Juin 2003</b>     | Présentation d'un cours général sur les SIG et la télédétection avec application sur le logiciel ArcView au profit du personnel de l'Observatoire du Sahara et du Sahel.  |
| <b>Février 2005</b>  | Préparation d'un module de formation destiné aux cadres des Commissariats Régionaux au Développement Agricoles et portant sur les notions de cartographie, la représentation cartographique, le GPS, les bases de données et les Systèmes d'Information Géographique ; Utilisation du module pour la formation des cadres du CRDA de Tataouine. |
| <b>Avril 2005-</b>   | Présentation d'un cours sur la notion de méta-données et sur les différents standards en la matière (principalement la norme FGDC) dans le cadre de l'atelier sur la diffusion des données se rapportant aux  |

---

## COMMUNICATIONS

- Novembre 1995** Utilisation de la télédétection pour la gestion des campagnes de pêche : Cas du thon - Conférence maghrébine des sciences de la Mer - Hammamet.
- Mai 1998** Application de la télédétection aux statistiques agricoles tunisiennes (Projet Sécurité Alimentaire) – Conférence sur le management de l'information spatiale – Tunis.
- Novembre 2000** L'Observatoire du Littoral : conception, mise en place et fonctionnement – Journée d'études sur les nouvelles technologies au service de l'urbanisme – Tunis
- Février 2002** L'approche tunisienne pour la cartographie et le diagnostic sur les zones humides - Atelier régional du *MedWetCoast sur l'utilisation* des photographies aériennes et des images satellitaires comme source d'information. Lisbonne – Portugal.
- Mars 2005** La circulation de l'information pour la mise en œuvre du PAN/LCD : la base de données Efforts et Impacts - Atelier international sur les nouveaux outils d'alerte et de diffusion de l'information sur la désertification -Castel GONDOLFO – Italie.
- Mai 2005** Mise en œuvre du dispositif national de suivi-évaluation du PAN/LCD : un concept, des outils et une opérationnalisation – Evénements parallèles organisés en marge du CRIC3 – Bonn.
- Novembre 2005** L'utilisation des images satellitaires pour la production des informations environnementales dans les pays de la zone OSS : constats et perspectives – Atelier international sur l'information spatiale et le développement durable – Rabat – Maroc
- 

## OUTILS INFORMATIQUES

Maîtrise des logiciels de traitement d'images, de Systèmes d'Informations Géographiques et de gestion de base de données :

**ERDAS, ENVI, MULTISCOPE, MAPSAT, ESPAS, IDRISI, SMAC  
ARC/INFO, ARCVIEW, ARCGIS, AUTOCAD, ACCESS**

**Programmation :** Turbo – Pascal, Avenue

---

## LANGUES

Arabe : langue maternelle  
Français : parlée, lue et écrite couramment  
Anglais : parlée, lue et écrite

---

## **Dorothy Akinyi Amwata**

Observatoire du Sahara et du Sahel, Bd Leader Yasser Arafat-BP31-Tunis, Tunisie  
Tel:(216)71 206 633-ext 124: Fax: (216)71 206 636.Cell Phone (216) 24286086

**Email:** [dorothy.amwata@oss.org.tn](mailto:dorothy.amwata@oss.org.tn)

### **Personal Information**

Date of Birth: 29 May 1977  
Nationality: Kenyan  
Gender: Female  
Marital Status: Married  
Current Job: Junior Research for Development Officer

### **Education**

Master of Science Range Management (Resource economics and Ecology), University of Nairobi, 2001-2004: Course work (Grade A); Thesis on: "*Effects of Communal and Individual Land Tenure Systems on Land Use and Food Security in Kajiado District, Kenya*".

Bachelor of Science (Range Management) degree, (Upper Second Honours), University of Nairobi: 1996-2000

Kenya certificate of secondary education(KCSE), St Albert Ulanda Girls' High School (1991 – 1994): Mean Grade B (plain).

Kenya Certificate of Primary Education (KCPE), Asego Primary School: 1982 – 1990: 481/700 Marks.

Computer skills: Proficient in Ms Word; Ms Access; Ms Excel; Power point; Windows operating system; and full working knowledge of Statistical Packages for Social Sciences (SPSS), S-Plus and Genstat.

### **Experience**

1. Junior Officer, Research for Development, Observatoire du Sahara et du Sahel, (OSS), Tunisia (April 2007- present)

- Development of several issue papers on development challenges in Africa:
  - a) *The position of Africa on climate change in collaboration with the NEPAD Secretariat and Climate Change Adaptation in Africa (CCAA).*
  - b) *Bioresource development in Africa in collaboration with the Stockholm Environment Institute.*
- Evaluation of the second phase of Netherlands Climate Assistance Programme in 14 developing countries supported by the Government of Dutch (DGIS) with the objective of capitalising on the achievements, lessons learnt and the impact on the policy processes and designing of future phases.
- Designed a capacity building programme for integrating the three multilateral environmental agreements with the aim of narrowing the gap between research and policy as

well as improving the knowledge of scientists and policy makers and local communities to better understanding for improved natural resource management.

- Coordination of research activities OSS observatories in collaboration with national focal points within circum-Saharan region, OSS zone of action).
- Writing proposals and technical papers on multilateral environment agreements on (desertification, climate change and biodiversity conservation) and New partnership for Africa development in collaboration with national researchers within the circum-Saharan zone.
- Organised workshops on environmental monitoring and training of the national institutions in Kenya on long term environmental monitoring through ROSELT/OSS Kenyan chapter to provide s inform the policy processes in designing national action plans.
- Reviews of scientific and technical papers on the three international conventions; climate change, desertification and biodiversity, their interactions and interrelationship with socio-economic, ecological, policy aspects.
- Mapping of all institutions in North Africa, Egypt and Mauritania working on adaptation to climate change and land degradation with the aim of identifying their strengths, weaknesses and needs. This was done in collaboration with ACCA-IDRC (Senegal).
- Synthesis on vulnerability approach in understanding climate change and desertification in Africa. This is currently being complemented by field studies at national and local levels to identify and develop the common indicators of vulnerability to climate related risks (such as drought and floods) for early warning systems. This project is supported by ALCOA Fellowship Grant.

## 2. Research Scientist, Species Conservation and Management- Kenya Wildlife Service (2003-March 2007)

- Assessment of land-use and human-wildlife conflicts in Maasai Mara ecosystem, Narok District, Kenya.
- Training and supervision of field assistants on use of GPS for purposes of data collection.
- Working knowledge on the use of Geographical Positioning System on research (GPS).
- Reviewed various papers on natural resource managements and policy issues especially with regards to land-use systems, desertification and human-wildlife conflict in sub-Saharan Africa.
- Carried out reforestation with community based organizations (CBOs) using indigenous commercial dry land trees.
- Provided technical assistance and support to CBOs and other development partners.

## 3. Project Coordinator, Muchongoi Forest, Baringo District, Kenya (2003- March 2007)

- Assessed human-wildlife conflict in Baringo District, Kenya. Established the elephant population structures, ages distribution and numbers and the extent of human-elephant conflicts. Also, analysed the influence on wildlife conflicts on rural livelihoods.
- Managed to geo-reference the households within Mochongoi division, Baringo District using a global positioning system and produced baseline maps for the study area.

## 4. Part lecturer, Kenya Wildlife Training Institute, Naivasha (May 2005-March 2007)

- Offer lecturers and field trips on natural resource management and their management for sustainability.
- Participated in curriculum development for the Kenya wildlife training institute

- Acquired full working knowledge on bilateral and multilateral organization procedures on project planning, funding and managements of resources.

#### 4. Graduate Assistant, Department of Range Management, University of Nairobi (2001-2004)

- Obtained skills and ability to write proposals on environmental issues and logical framework preparation for environmental and natural resource projects.
- Conceptualized, initiated, prepared, monitored and managed various environmental conservation and poverty reduction projects in the arid and semi-arid lands of Kenya.
- Acquired full working knowledge on bilateral and multilateral organization procedures on project planning, funding and managements of resources.

#### 5. Volunteer and Rapporteur, Ecotourism society of Kenya (Jan2002- Dec 2002)

- Worked as a volunteer and assisted in writing of reports during regional ecotourism workshops and seminars held in Nairobi, Kenya.
- Participated in identification of potential ecotourism projects in the adjacent park areas and studying their feasibility; development projects in the park and reserve adjacent areas to identify the major drawbacks and suggest the possible ways forward to ensure their sustainability.
- Developed a directory and an ecorating scheme for water, energy and waste disposal institutions for Kenya. As a team player, visited and collaborated with institutions dealing with water management by taking note of their goals, objectives, activities, achievements, setbacks and future prospects for purpose of developing a directory.

#### **Data entry and analysis experience**

- Entered and analysed data for various research projects for the University of Nairobi, Department of Range Management projects, Dryland Husbandry Project - DHP.
- Statistical ability and skills to understand and interpret statistical analysis of the data outputs for environmental and natural resource projects.

#### **Capacity building and training**

- Training and capacity building on grazing and natural resource management for the pastoral communities in Kajiado District, seminar in Kajiado hosted by the Early Warning Systems in the arid and semi-arid lands.
- Prepared training materials for pastoral communities, and workshop presentation on Desertification & mitigation measures.
- Facilitation and training in monitoring and evaluations of agricultural projects.
- Organize training programs for the community members and exploring possible option for alternative energy sources in the rural areas.

#### **Leadership / Management experience.**

- Researcher, on resource use conflict project (July 2003 to 2005), gained skills in leadership, project & financial management, coordination, interpersonal skills, ability to work in a team and skills in capacity building among others.
- Skills and ability to write proposals on environmental issues and logical framework preparation for environmental and natural resource projects.
- I have conceptualized, initiated, prepared, monitored and managed various environmental conservation and poverty reduction projects in the arid and semi-arid lands of Kenya.
- Full working knowledge on bilateral and multilateral organization procedures on project planning, funding and managements of resources.

**Personal skills**

- Excellent analytical and statistical ability
- Open minded, innovative and motivator
- Result oriented, flexible and time manager
- Team player and effective communicator
- Good interpersonal skills

**Professional Associations**

- Member of the Eastern Africa Range Management Society (EARMS)
  - Member of the Society for Conservation Biology (SCB)
  - Member of the East African Wildlife Society (EAWLS)
- 

**Publications**

1. Briki M., Ben Khatra N., Jauffret S., **Amwata D.**, Requier Desjardins M., Benhanafia K., Lamine Gacemi M. Hassani A. *Combining local observation and remote sensing for rangeland monitoring in arid zones* » Actes du colloque Range Monitoring Expert Consultation Meeting organise par la FAO, Le Caire, 26-28 Novembre 2007.

2. **Amwata, A.D.**, Omondi, P.O., and Bitok, E. 2006. Human-wildlife in Baringo District, Kenya: case of elephants in Mochongi forest. Publication in *Pachyderm*: 44, the African elephant specialized group/IUCN, Nairobi-Kenya.

3. **Amwata, A.D** and Nyariki, D.M (2007) Implications of land reforms on land use and food security among pastoral households in the Kenyan rangelands. Publication in process in the *Journal of social sciences*.

4. Vulnerability approach to desertification and climate change in circum-Saharan Africa. Submitted to *Journal of arid environment* (undergoing review).

**Presentations in International conferences and workshops**

1. GEO-BON Biodiversity Observation Network of GEO held on 8-14 April 2008 in Potsdam, Germany supported by the GEO Secretariat and the Federal Ministry of Education and Research (BMBF): emphasised the role of bottom-up approach in long term monitoring of biodiversity; where local observations are critical in harmonising the global data sets.

2. The ROSELT/OSS Workshop held on 10-11 December 2007, Kenya Agricultural Research Institute Headquarters, Nairobi-Kenya aimed at reinforcing the local environmental observations to inform national decision processes.

3. United Nations Climate Change Convention (UNFCCC) COP13 conference held on 2-14 December 2007, Bali, Indonesia.

4. Climate Change and Desertification: Monitoring, Modelling and Forecasting (Hotel Regina, Wengen, September 10-13, 2007): sponsored by the World Climate Research Programme (WCRP), the International Council for Science (ICSU), the Intergovernmental Commission for Oceanography of UNESCO (IOC) and the World Meteorological Organization (WMO), the GEO Secretariat. *Made a presentation on the linkages between climate change*

*and Desertication in circum-Saharan africa and propositions on actions for realisation of the synergy among the three multilateral environmental agreements.*

### **Languages**

Languages: English & Kiswahili (Fluent/full working knowledge): French: Fair

### **Referees**

1. *Prof Dickson M. Nyariki*

*Department of LARMAT,*

*University of Nairobi,*

*Tel:+ 254-020-631225*

*Cell Phone +254-0733-720718*

*Email: [dicksonnyariki@yahoo.com](mailto:dicksonnyariki@yahoo.com)*

2. *Dr. Melanie Des-Jardins Requier*

*Coordinator Environment and Research Programmes*

*Observatoire du Sahara et du Sahel*

*Tel:+216-71-206-633*

*Mobile:+216-98324365*

*Email: [yuba.sokona@oss.org.tn](mailto:yuba.sokona@oss.org.tn)*

3. *Dr. James Njogu*

*Head Conventions, Biotechnology and Information systems*

*Kenya Wildlife Service*

*Telephone + 254-020-602345*

*Tel : +254-72-1216597*

*Email: [jgichiah@kws.org](mailto:jgichiah@kws.org)*

**Updated January 2008**

**CV civil**

Mélanie Requier-Desjardins,

Française, 36 ans, Vie maritale

Assistante technique régionale du  
Ministère des affaires étrangères et  
européennes français



**Docteur en Sciences  
Economiques**

**Anthropologie économique**

---

## EXPÉRIENCES

---

- 12/2006  
11/2008
- Mise à disposition auprès du Secrétaire Exécutif de l'Observatoire du Sahara et du Sahel par le Ministère des affaires étrangères et européennes français (MAEE) :
    - Conseiller régional Afrique
    - Coordinatrice des programmes environnement et recherche pour le développement de l'OSS
- 2 ans
- 
- 09/2006  
11/2006
- Chargée d'études à l'Agropolis (Montpellier) :
    - responsable de l'organisation d'un atelier international sur les coûts socio-économiques de la désertification (Rome, FAO, 4-5 décembre 2006),
    - contribution à l'organisation du forum international des ONG « Désertification et société civile » (Montpellier 19-21 septembre 2006)
- 2 mois
- 
- 06/2001  
07/2006
- Chercheur associée au C3ED (Centre d'Economie et d'Ethique pour l'Environnement et le Développement) de l'UVSQ (Université de Versailles St Quentin-en-Yvelines)
    - Consultante pour les opérateurs français de développement :
      - o AFD (Agence Française de Développement), coûts socio-économiques de la désertification,
      - o MAE (Ministère des Affaires Etrangères), co-rédactrice de l'exposition sur la désertification en 2006, réalisation d'inventaires chiffrés des actions de lutte contre la désertification financés par la France pour les années 2000-2001 et 2003,
      - o FFEM : étude des liens entre la biodiversité, le changement climatique et la désertification et indicateurs locaux,
      - o ONG CARI (Centre d'Actions et de Réalisations Internationales) : rédactrice d'un cdrom sur la désertification.
    - Chargée de Travaux Dirigés en 2005-2006, 2004-2005 et ATER (Attaché Temporaire d'Enseignement et de Recherche) en 2002-2003 ; encadrement d'étudiants de maîtrise pour leur mémoire / stage de terrain.
    - Rédaction de projets, participation à des réponses à appel d'offre européens
    - Missions institutionnelles en Afrique et en Amérique du Nord (banque mondiale) ; membre de la délégation française aux réunions de la Convention des Nations-Unies de lutte contre la désertification
- 5 ans
- 
- 01/2001  
03/2001
- Contrat d'auteur à TLC (The Learning Company) : contribution à l'élaboration d'un cdrom éducatif
- 2 mois

- 01/1996 – Allocataire de recherche et doctorante CIRAD–UVSQ (Centre de Coopération  
06/2001 Internationale en Recherche Agronomique pour le Développement) : expatriation de  
18 mois au Cameroun.
- Travaux sur le foncier pastoral et l'agro-élevage en zones arides, application au Nord-Cameroun
- 5 ans
- Chercheur associée au CEDC (Centre du Développement et de l'Environnement au Cameroun), direction d'enquêtes de terrain pendant 18 mois.
- 10/1994 – Stagiaire au CIRAD-GERDAT  
10/1995
- Traitements statistiques d'enquêtes sur les systèmes agricoles au sein du programme ECOPOL (ECONomie, POLitiques et marchés).
  - Réalisation du mémoire de DEA avec une recherche de terrain au Burkina Faso
- 1 an
- 06/1993 – Assistante au service juridique du département de la recherche agronomique de  
09/1993 CIBA-GEIGY (Rueil-Malmaison) :
- application des normes européennes aux notices des produits fertilisants et phytosanitaires
  - gestion de la relation clients
- 3 mois

1972-1987 : Enfance et Adolescence en Afrique (Algérie et Côte d'Ivoire)

---

**CURSUS**

---

- 2006 Qualification sur les listes du CNU :
- renouvellement en section 5, sciences économiques
  - qualification en section 24, aménagement du territoire
- 2001 Doctorat en Sciences Economiques – Université Versailles St Quentin-en-Yvelines, mention très honorable avec les félicitations du jury
- 1995 DEA Economie de l'Environnement et des Ressources Naturelles – Université Paris I, mention bien
- 1994 Maîtrise en Economie – Université Paris I – Glasgow (Ecosse) ERASMUS

---

**LANGUES**

---

|                 | Lu                                       | Ecrit | Parlé   |
|-----------------|--|-------|---------|
| Français        | Langue maternelle                        |       |         |
| Anglais         | Courant                                  | Bon   | Courant |
| Espagnol        | Bon                                      | Moyen | Bon     |
| <i>Fulfulde</i> | notions (dialecte peul du Nord-Cameroun) |       |         |

---

9. Lastly, the OSS will be interested to participate on the review of proposals of the applicants that express interest in basing their fellowship experience at our institution.