

Stéphane FLASSE

Dr Engineer in Remote Sensing Agronomy and Environmental Information System

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*An enthusiastic scientist, leader and manager,
motivated for the sustainable improvement of local decision support,
particularly using environmental information, with and for the end-users*

CURRICULUM VITAE

1. **Surname:** Flasse
2. **Name:** Stéphane
3. **Date of birth:** 4 June 1964
4. **Nationality:** Belgium
5. **Civil status:** Married
6. **Education:**

<i>Institutions</i>	Université Catholique de Louvain, Belgium
<i>Date (from-to)</i>	1982-1987
<i>Degree(s) or diploma(s)</i>	Ingénieur Agronome - <i>land management</i>
<i>Institutions</i>	Université Catholique de Louvain, Belgium & EU-Joint Research Centre, Ispra, Italy
<i>Date (from-to)</i>	1990-1993
<i>Degree(s) or diploma(s)</i>	PhD - <i>remote sensing agronomy</i>

7. **Language skills: (Mark 1 to 5 for competence, where 5 is the highest)**

<i>Language</i>	<i>Passive</i>	<i>Spoken</i>	<i>Written</i>
French (mother tongue)	5	5	5
English	5	5	5
Italian	3	3	1
Spanish	1	1	1
Dutch	1	1	1

8. **Membership of professional bodies:**

- Remote Sensing and Photogrammetric Society
- The Natural Resources group
- The Association des Ingénieurs Agronomes de Louvain
- The Association of Energy Therapists
- The British Complementary Medicine Association

9. **Other skills (e.g. computer literacy, etc.):**

- Operating systems: Windows (+Macintosh, UNIX)
- Software: Word, Excel, PowerPoint, Access, IDL, IDRISI, ArcView

10. **Present position:** Director/Freelance consultant, Flasse Consulting Ltd

11. **Years within the company:** 7
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12. Key qualifications:

Key skills

- Over 20 years experience in the interpretation and wide use of environmental information and its integration in local context for improved decision support (including forest fire management, disease vector/pest control, forestry and agriculture).
- Problem solving through the understanding of end-user requirements, from local needs (mostly in developing countries) to global issues (global/climate change).
- Applied research and training for the interpretation of satellite data.
- Consultant and advisory work for local, national/governmental, and international bodies.
- Project management and team leadership (including all project cycle phases).
- Multi-lingual, reliable, conscientious and flexible worker with initiative and sense of commitment.
- Enthusiastic and friendly player in interdisciplinary, multi-cultural and competent team.

Research and Development - Applications and Advisory

- **Remote sensing, Environmental Information System (EIS) and GIS:**
 - Research for the extraction of quantitative and qualitative information from satellite data (mostly NOAA-AVHRR, Meteosat, SPOT-VEGETATION and Landsat),
 - Adaptive research, development and implementation of methods for operational and practical applications to support decision making, mostly in developing countries (thematic and risk maps)
 - Advisory on the above for international bodies
- **Bush and forest fire management:** contribution to regional and global studies, establishment of forest and bush fire information units in-country and associated decision support systems.
- **Vector/pest control:** using satellite data to monitor insects habitat and EIS to support their control: e.g. **locust**, *Oestrus ovis* (**veterinary**), black flies (**river blindness**), mosquitoes (**malaria, dengue**).
- **Agriculture/forestry:** irrigation, crop yield forecasting, forest/vegetation mapping & change monitor.
- **Climate modelling:** Improvement of land surface parameterisation of a mesoscale climate model.
- **Education:** Integration and usage of GIS into primary and secondary schools.
- **Software development:** design, specification and development (e.g., NOAA Operational Manager).

Project management and team leadership

- Over 10 years experience in project management (ideas development, preparation, bidding and execution), ranging from scientific leadership to entire project management.
- Project types include multidisciplinary, research, consultancy, advisory, training, overseas technical support, and software design and implementation. Project management includes small research team and external contractors. Donors include EU, UK-DFID, World Bank, UK-HEFCE, FAO, local governments, with budgets up to 700K Euro.
- Over five years experience in small research team development.

Lecturing and training - participatory workshops

- Seminars and lectures for various clients including Cranfield University, University of Greenwich (BSc and MSc courses), Université Catholique de Louvain (visiting professor – 2002/03), Wye College, various professional societies and NRI short courses, and customised training for local staff in developing countries.
- Facilitation, management and contribution to participatory workshops in Mali, Indonesia, Thailand, Nicaragua, Ethiopia and Uzbekistan (including enthusiastic and motivating presentations).

Monitoring and evaluation

- Projects & programme (e.g. EC-FP5-7, FAO), reviews for scientific international journals.
- PhD and MSc supervisions.

13. Specific experience (in non-EU member countries): non exhaustive

Over 30 short-term missions overseas inc. Europe, Guinea Republic, Mali, Burkina Faso, Nigeria, South Africa, Botswana, Madagascar, Somalia, Ethiopia, Indonesia, Thailand, Nicaragua, and CIS. See next section for details.

14. Professional experience:

Employment record:

- 2001 to date *Director/Freelance Consultant*, Flasse Consulting Ltd, UK.
- 1994-2001 *Principal Scientist, Project and Research Leader*, Natural Resources Management Department and Environmental Sciences Department, Natural Resources Institute, The University of Greenwich, UK.
- 1990-1993 *PhD Researcher*, Institute for Remote Sensing Applications, Joint Research Centre-JRC, Commission of European Communities, Ispra, Italy.
- 1990 *Research assistant*, Institut d'Astronomie et Géophysique G. Lemaître, Université Catholique de Louvain, Louvain-La-Neuve, Belgium.
- 1988-1989 Military Service, Brussels, Belgium.
- 1987-1988 *Researcher*, Institute for Remote Sensing Applications, Joint Research Centre-JRC, Commission of European Communities, Ispra, Italy.

Projects

Date	2008-2009
Location	UK + short missions in <i>EU</i>
Company	Flasse Consulting Ltd
Position	Independent expert
Description	<p>Monitoring and evaluation of EC-FP7 project SAFER (EC funding)</p> <p>I am an independent EC expert to support the EC with 1) the contract negotiation of the project SAFER, ii) the monitoring and evaluation of the project during its implementation. SAFER is a 27M euros EC funded project, with 60 partners, looking at the implementation of pre-operational versions of the Emergency Response Core Service to respond to emergency situations: fires, floods, earthquakes, volcanic eruptions, landslides, humanitarian crisis.</p>

Date	2001-2009
Location	Brussels
Company	Flasse Consulting Ltd & Natural Resources Institute
Position	Evaluator & Rapporteur
Description	<p>EC-Framework Programme 5, 6 and 7 project proposals evaluation (EC funding)</p> <p>Dec - Jan 2009: <i>FP7 – 2009 - Space – GMES-Africa & GMES Downstream services</i> July-Sept 2007: <i>FP7 – 2007 - Space – GMES</i> August 2006: <i>FP6 - INTAS – Fire in Russia</i> Sept 2005: <i>FP6 – Space – GMES – Int. coop., Users network (STREP, SSA, CA)</i> May 2004: <i>FP6 – Space – GMES – Risk Management (IP)</i> April 2003: <i>FP6 – Space – GMES – Risk Management (IP)</i> December 2001: <i>FP5 - Natural and Technological Hazards and Earth Observation</i> March 2001: <i>FP5 – Natural and Technological Hazards</i></p>

Date	2004-2008
Location	UK + short missions in <i>EU</i>
Company	Flasse Consulting Ltd
Position	Independent expert
Description	<p>Monitoring and evaluation of the EC-FP6 project PREVIEW (EC funding)</p> <p>I am an independent EC expert for the EC, to support the EC with 1) the contract negotiation of the project PREVIEW, ii) the monitoring and evaluation of the project during its implementation. PREVIEW is a 14M euros EC funded project, with 58 partners, looking at the integration of information system and services for a multi risk approach (fire, floods, storms, landslides, volcanoes, earthquake, industrial) in Europe.</p>

Date	2005- 2008
Location	UK
Company	Flasse Consulting Ltd
Position	Invited lecturer
Description	Lectures in remote sensing I contribute with 6 units teaching of the <i>Physical Principles and Technology of Remote Sensing</i> course of the <i>MSc Geographical Information Management</i> at Cranfield University, UK, for academic years 05-06, 06-07, 07-08, and 08-09.

Date	2008
Location	Burkina Faso
Company	Flasse Consulting Ltd – PROMAN – Lux Development
Position	Team leader and expert in remote sensing and environmental information
Description	Pre-feasibility study – National Forestry Inventory (Luxembourg Aid funding) I lead a team of two for a pre-feasibility study of a project to be funded by Luxembourg aid and implemented by its executive agency – Lux-Development – to assist the Government of Burkina Faso for their next national forestry inventory. The team writes the ToR for the mission that will develop the project document.

Date	2008
Location	UK
Company	Flasse Consulting Ltd
Position	Translator
Description	Africa Stockpiles Programme Information Manual for NGOs (PAN-UK) I verify and complete the translation of the Africa Stockpiles Programme Information Manual for NGOs from English to French

Date	2007
Location	Rome, Kenya and Somalia
Company	FAO
Position	Independent expert
Description	Final Evaluation of SWALIM project (Somalia Water and Land Information Management) (FAO funding) I am the Environmental Information expert in this 2 people team final project evaluation. SWALIM is an EC funded and FAO implemented project aiming at producing baseline information, and re-establishing data collection networks in collaboration with partner agencies, to facilitate better assessment of rainfall, river flow, groundwater resources, land characteristics, degradation and land suitability as well as improving flood warning and flood management. (www.faoswalim.org)

Date	2004-2007
Location	UK + short missions to <i>France</i>
Company	Canterbury Christ Church University
Position	Development and Coordination officer
Description	The Dakini Project I & II (EC-Interreg funding). I am in charge of the wider development of this participatory Anglo/French education support programme that provides thousands of pupils and teachers with interactive access to high quality digital teaching resources and materials that helps to maximise their understanding of key cultural, economic, social, historical and geographical issues within the Interreg IIIa region. This project develops a significant digital educational resource for the region, which includes data such as high resolution aerial photography, satellite imagery, historic, census and environmental data; pedagogic material, bi-lingual Geographical Information System (GIS) and website. Collaborators: l'Académie de Rouen, L'Académie d'Amiens, France; Kent County Council, East Sussex County Council, UK

Date	2006
Location	UK + short mission to <i>Kenya</i>
Company	Flasse Consulting Ltd
Position	Independent expert
Description	Evaluations for the CCAA programme (IDRC-DFID funding) I am one of 25 interdisciplinary experts for the evaluation of concept notes from the first call of the Climate Change Adaptation for Africa (CCAA) programme.

Date	2005-2006
Location	UK + short mission in <i>EU</i>
Company	Flasse Consulting Ltd & MWH SA
Position	Thematic expert
Description	Finalisation of AMESD programme development (EDF funding) With colleague Dr. Jim Williams we adjust and finalise the writing of the Feasibility Study of the African Monitoring of the Environment for Sustainable Development programme (AMESD) (initiated by a previous team), including feasibility study, logical framework, financing proposal, technical assistance terms of reference of the programme. Collaborateurs: EC, JRC, EUMETSAT

Date	2005-2006
Location	UK
Company	Flasse Consulting Ltd
Position	Project manager – Remote sensing expert
Description	Advice for the development of SUMO (Software for the Utilisation of Meteosat in Outlook Activities) (EDF funding) I give advice to the South African Weather Services during their development of the SUMO (Software for the Utilisation of Meteosat in Outlook Activities). SUMO is a user-friendly application for the production relevant products (vegetation, temperature, ...) for Africa from MSG data. Collaborators: South African Weather Services – SAWS

Date	2004-2005
Location	UK + short missions in <i>EU</i>
Company	Flasse Consulting Ltd
Position	Project manager – Remote sensing expert
Description	Identification of potential software and algorithms to be adapted to Meteosat Second Generation (MSG) data in Support to MTAP / PUMA project, software specifications, and software development testing/advising (EDF funding) I lead a small team for the identification of relevant applications for Africa, for their algorithms and software, to be adapted for MSG data. This then led to the writing of the specifications of the software to be provided with receiving station to all national meteorological departments in Africa, as well as advising and testing on the development of the actual package. Collaborators: MTAP, JRC, EUMETSAT, SAWS

Date	2003-2004
Location	UK + short missions to <i>Germany</i>
Company	Flasse Consulting Ltd
Position	Project manager -Remote sensing expert
Description	Study on MSG - SEVIRI Operational Fire Product Definition (EUMETSAT funding) I carried out a feasibility study for the definition of fire products that could be generated with Meteosat Second Generation satellites, SEVIRI sensor. The study included the identification of the state-of-the-art in fire products and information, as well as a recommendation for the approaches (existing and research) that would best use

	SEVIRI's added value.
Date	2003
Location	Rome + short missions to <i>Kyrgyzstan, Armenia, and Brussels</i>
Company	Flasse Consulting Ltd
Position	Environmental information expert
Description	<p>Mid-Term Review of the EC "FAO Programme 1999 to support food security" (EC/FAO funded)</p> <p>Representing the EC in a joint EC-FAO review of the FAO Programme 1999 to support food security. The evaluation covered an assessment of the overall results achieved under the four-year programme and provided guidance for the development of a possible EC/FAO Programme 2004.</p> <p>Collaborators: Joint Research Centre – EC and Evaluation Department FAO.</p>
Date	2003
Location	Belgium + short mission to <i>Thailand</i>
Company	Université Catholique de Louvain
Position	Scientific partner – remote sensing expert
Description	<p>RISKMODEL: Predicting the risks of mosquito-borne diseases from land use change (EC funded)</p> <p>Provision of a predictive model of the effects of land use change on the prevalence of mosquito-borne disease in Thailand, and a methodology for the development of similar models for other regions and diseases, with initial focus on malaria and dengue in the Chiang Mai province.</p> <p>Collaborators: Faculty of Medicine, University of Chiang Mai, Thailand</p>
Date	2002
Location	UK + short missions to <i>Nigeria</i>
Company	Flasse Consulting Ltd
Position	Project manager & remote sensing expert
Description	<p>Rapid appraisal of forest quality using remote sensing data, in Cross River State. (DFID funded)</p> <p>Establishment of an updated map of the forest (distribution and quality) of the Cross River State of Nigeria, using satellite imagery Landsat TM</p> <p>Collaborators: Forestry Commission and Cross River State Community Forestry Project, Calabar, Nigeria</p>
Date	2000-2003
Location	UK + short missions to <i>South Africa</i>
Company	Flasse Consulting & Natural Resources Institute
Position	Scientific and team leader – remote sensing expert
Description	<p>Forecasting Outbreaks of the Brown Locust in Southern Africa (DFID funded)</p> <p>The Brown Locust outbreak area is situated in the semi-arid Karoo region of South Africa and Namibia, from where swarms can spread out to invade agricultural land in eight neighbouring countries. The project aims to improve the forecasting of outbreaks by identifying the relationships between environmental factors and processes and changes in locust population numbers and distribution.</p> <p>I lead the research that focuses on developing and using GIS-based locust and remote sensing data (NOAA-AVHRR and SPOT-VEGETATION) to improve knowledge and forecasting methodologies for the Brown Locust Early Warning System (BLEWS), which is operated by the ARC-PPRI and ARC-ISCW in Pretoria and disseminates information about the current and predicted status of locust populations throughout the invasion area.</p> <p>Collaborators: Agricultural Research Council (ARC), South Africa (Plant Protection Research Institute and Institute for Soil, Climate and Water).</p>
Date	2002

Location	<i>Mali</i>
Company	Flasse Consulting Ltd
Position	Principal investigator, project leader
Description	<p>Malaria control support system in Mali - participatory workshop</p> <p>I lead this project which main objective is to learn from 6 months of operational usage of the SASL (a decision support system based on EIS, for local malaria control), based in Niono, to assess relevance and sustainability of the approach in order to reduce malaria in rural areas, and to recommend on the way forward.</p> <p>Collaborators: The Malaria Research and Training Centre, Bamako, Mali.</p>

Date	2000-2001
Location	UK + short missions to <i>Botswana</i>
Company	Natural Resources Institute
Position	Principal investigator, project leader
Description	<p>Environmental information for malaria control (DFID funded)</p> <p>I lead this project which identified, from current knowledge, how, where and for what potential impact, Environmental Information Systems (EIS) can improve practical and operational decision making in malaria control in Botswana, and made appropriate recommendations to the Botswana Ministry of Health and DFID.</p> <p>Collaborators: Ministry of Health - Epidemiology and Disease Control Unit, Botswana</p>

Date	1999-2001
Location	UK + short missions to <i>Mali</i>
Company	Natural Resources Institute
Position	Principal investigator, scientific leader and project manager
Description	<p>EIS for malaria control, support system, in Mali (UK-HEFCE funded)</p> <p>This project aimed at contributing to reducing malaria cases by improving malaria prevention through an enhanced decision making process, in particular through the use of environmental information system applied and adapted to in-country conditions. The main objective for the work was to improve, where appropriate, actual support to malaria control locally and nationally with the use of environmental information. In particular a prototype method was developed to use Meteosat rainfall estimation to support malaria epidemic prediction, and an operational prototype (the SASL - a decision support system based on EIS) was developed and tested with the health centre of Niono. Another project has carried out the evaluation of this prototype used in operational mode.</p> <p>Collaborators: The Malaria Research and Training Centre, Bamako, Mali.</p>

Date	1995-2000
Location	UK + short missions to <i>Botswana</i>
Company	Natural Resources Institute
Position	Vegetation and fire remote sensing expert, trainer
Description	<p>Support to the Department of Meteorological Services (DMS) (DFID funded)</p> <p>The aims of the project were to establish a NOAA AVHRR receiving station capable of information archiving and dissemination, to assist in the updating of Meteosat image reception equipment to improve short and medium term forecasting, provide training aimed at making DMS self sufficient in the day to day capture, processing, archiving and dissemination of NOAA AVHRR data, facilitate the wider use of the NOAA data by other services, assist in the development of an application for integrating satellite imagery data into the Early Warning System. In particular I developed with DMS a semi-automated method to extract burned areas from NOAA-AVHRR data (with interfaces developed in IDRISI and IDL)</p> <p>Collaborator: Department of Meteorological Services, Gaborone, Botswana</p> <p>Range land inventory monitoring project Botswana (BRIMP)</p> <p>The project aimed at developing pilot Inventory and Monitoring methods, including</p>

	<p>train personnel, develop linkages between various sections of the Ministry of Agriculture and other line Ministries, develop a prototype Rangeland information system that stores all rangeland data so that it is accessible for policy analysis and decision making. The project worked at providing information on the following important issues: Droughts, Rangeland fires, Desertification, and Land Use Planning.</p> <p>Collaborator: Ministry of Agriculture, Gaborone, Botswana</p>
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Date	1995-1998
Location	UK + short missions to <i>Indonesia</i>
Company	Natural Resources Institute
Position	Technical leader, scientific leader & trainer, and project manager
Description	<p>Adaptive Research LARST Forestry Phase II Operational Fire Monitoring System (DFID funded)</p> <p>This project improved fire information availability and reliability to Provincial Forestry Department staff (Java, Sumatra, Kalimantan) and its rapid dissemination to concessionaires as part of the overall strategy towards sustainable management of the logged tropical moist forests of Indonesia. The principal project output was a local, low-cost operational satellite fire monitoring system to assist provincial forestry department staff in managing environments susceptible to forest fires in Indonesia. In particular, I developed new, improved (automatic) techniques for fire detection from NOAA-AVHRR data and implemented locally with interface in local language (developed under IDL). Local staff was trained accordingly. Methods for timely information dissemination were explored and developed to suit local communication facilities.</p> <p>Collaborators: EU Indonesia Forest Sector Support Programme ODA Indonesia Tropical Forestry Management Project (ITFMP) Ministry of Forestry – Indonesia</p> <p>Indonesia/UK environmental monitoring project</p> <p>The overall purpose of the Project was to help develop more integrated and sustainable environment monitoring methods in Indonesia towards improved management of natural resources. The project objective was to enable more appropriate and cost effective environmental monitoring by GORI institutions by demonstrating and evaluating applications of real-time local reception of free data from environmental satellites, ensuring their relevance and sustainability in the institutional context of Indonesian agencies. The Project consisted of technical support and institutional strengthening. Four applications areas were selected by BPPT to test the value of remote sensing for the assessment and management of marine resources, for mapping land use and crop yield variations, for monitoring watershed degradation and water resources, and for meteorological studies. A participatory workshop was held for interested parties (government departments, line agencies, universities) to whom the applications teams have presented the results of their survey work and their conclusions on the usefulness of real-time satellite data reception and analysis.</p> <p>Collaborators: Badan Penerapan dan Pengkajian Teknologi (BPPT) Silsoe College – UK</p>

Date	1994-1998
Location	UK + short missions to <i>Nicaragua</i>
Company	Natural Resources Institute
Position	Scientific manager, team leader and trainer, remote sensing and GIS expert
Description	<p>Nicaragua Land Resources (Fire) Monitoring Project (DFID funded)</p> <p>The overall purpose of the project was to encourage more integrated and sustainable environment monitoring methods in Nicaragua to ensure better informed decisions for improved management of natural resources, particularly forests. Project consisted of technical support and institutional strengthening. The immediate objective of the Project was to assist with appropriate and cost effective forest fire and environmental monitoring through utilisation and evaluation of real-time local reception of data from environmental satellites. In particular I undertook stakeholder participatory workshops to assist local integration, adaptive research for fire detection from satellite data and operational interfaces (IDL), training in remote sensing and GIS.</p>

	Collaborators: Ministerio del Ambiente y Recursos Naturales (MARENA) Universidad Nacional Agraria (UNA) Instituto Nicaragüense de Estudios Territoriales (INETER)
Date	1990-1993
Location	Italy + short mission to <i>Republic of Guinea</i>
Company	EC-Joint Research Centre
Position	Researcher
Description	Extraction of quantitative and qualitative information from satellite data PhD research project essentially focusing on the inversion of bidirectional reflectance model for the retrieval of variables characterising land surfaces.

15. Others:

Practitioner of *Life Alignment*, a holistic system to release emotional and energetic blockages in the bodies, buildings, lands, for a well being in our life journey (www.life-alignment.com).

More than 20 scientific refereed papers and book chapters, and 70 international conference and workshop papers, on topics ranging from remote sensing technical issues on vegetation monitoring and fire detection, to applied and operational environmental information for fire management and vector/pest control, mostly in developing countries.

Journal papers

Vanwambeke, S. Lambin, E. Eichhorn, M., **Flasse, S.**, Harbach, R., Oskam, L., Somboon, P., van Beers, S., van Benthem, B., Walton, C. and R. Butlin (2007) 'Impact of Land-Use Change on Dengue and Malaria in Northern Thailand', *EchoHealth*, **4**, 37-51.

Trigg, S. N., Roy, D. **Flasse, S. P.** (2005) 'An in situ study of BRDF effects on the remote detection of burned savannah', *International Journal of Remote Sensing*, **26** (21) 4869-4876.

Vanacker, V., Linderman, M., Lupo, F., **Flasse, S.**, Lambin, E.F., (2005) 'Impact of short-term rainfall fluctuation on interannual land cover change in sub-Saharan Africa' *Global Ecology and Biogeography*, **14**, 123-135.

Tansey K., J-M. Grégoire, E. Binaghi, L. Boschetti, P.A. Brivio, D. Ershov, **S. Flasse**, R. Fraser, D. Graetz, M. Maggi, P. Peduzzi, J.M.C. Pereira, J.M.N. Silva, A. Sousa and D. Stroppiana (2004) 'A global inventory of burned areas at 1km resolution for the year 2000 derived from SPOT VEGETATION data'. *Climatic Change*, **67**(2), 345-377.

Tansey K., J-M. Grégoire, D. Stroppiana, A. Sousa, J.M.N. Silva, J.M.C. Pereira, L. Boschetti, M. Maggi, P.A. Brivio, R. Fraser, **S. Flasse**, D. Ershov, E. Binaghi, D. Graetz and P. Peduzzi (2004) 'Vegetation burning in the year 2000: Global burned area estimates from SPOT VEGETATION data', *Journal of Geophysical Research*, **109**(D14S03).

Boschetti, L, **S. P. Flasse** and P. A. Brivio (2004) 'Analysis of the conflict between omission and commission in low spatial resolution dichotomic thematic products: The Pareto Boundary Pareto', *Remote Sensing of Environment*, **91** (3-4), 280-292.

Wilson, M. D., R. A. Cheke, **S. P. J. Flasse**, S. Grist, M. Y. Osei-Ateweneboana, A. Tetteh-Kumah, G. K. Fiasorgbor, F. R. Jolliffe, D. A. Boakye, J. M. Hougard, L. Yameogo and R. J. Post (2002) 'Deforestation and the spatio-temporal distribution of different members of the *Simulium damnosum* complex in southern Ghana and south-western Togo', *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **96**, 632-639.

Ceccato, P., N. Gobron, **S. Flasse**, B. Pinty and S. Tarantola (2002) 'Designing a spectral index to estimate vegetation water content from remote sensing data (Part 1: Theoretical approach)', *Remote Sensing Environment*, **82**(2-3), 188-197.

Ceccato, P., **S. Flasse**, J.-M. Grégoire (2002) 'Designing a spectral index to estimate vegetation water content from remote sensing data (Part 2: Validation and applications)', *Remote Sensing environment*, **82**(2-3), 198-207.

Trigg, S. and **S. Flasse** (2001) 'An evaluation of different bi-spectral spaces for discriminating burned shrub-savannah' *International Journal of Remote Sensing*, **22**(13), 2641-2647.

Ceccato, P., **S. Flasse**, S. Tarantola, S. Jacquemoud, J.-M. Grégoire (2001) 'Detecting vegetation leaf water content using reflectance in the optical domain', *Remote Sensing Environment*, **77**(1), 22-33.

Trigg, S and **S. Flasse** (2000) 'Characterizing the spectral-temporal response of burned savannah using *in situ* spectroradiometry and infrared thermometry' *International Journal of Remote Sensing*, **21**, 3161-3168.

Jacques de Dixmude, A., P. Navarro, **S. Flasse**, I. Downey, L. Valerio, F. Uriarte, A. Ramos (1999) 'Monitoreo de fuegos en Nicaragua: el uso de la teledetección' *Revista Forestal Centroamericana*, **27**, 26-31.

Flasse, S. P., C. Walker, H. Biggs, P. Stephenson, and P. Hutchinson (1998) 'Predicting outbreak of Oestrus ovis: supporting veterinary control measures with satellite remote sensing', *Preventive Veterinary Medicine*, **33**(1-4), 31-38.

Wooster, M., P. Ceccato and **S. Flasse** (1998) 'Indonesian fires observed using AVHRR' *International Journal of Remote Sensing*, **19**(3), 383-386.

Connor, S. J., M. C. Thomson, **S. P. Flasse** and A. H. Perryman (1998) 'Environmental information systems in malaria risk mapping and epidemic forecasting', *Disasters*, **22**(1), 39-56.

Thomson, M. C., S. J. Connor, P. J. M. Milligan, **S. P. Flasse** (1997) 'Mapping malaria risk in Africa – The role of environmental remote sensing', *Parasitology Today*, **13**(8), 313-318.

Ceccato, P., **Flasse S.** and I. D. Downey (1996) 'An automatic algorithm to detect vegetation fires globally from NOAA-AVHRR data' *Advances in Remote Sensing*, **4**(4),84-89.

Downey, I. D., P. Ceccato, **S. P. Flasse**, P. Navarro, S. N. Trigg, and J. B. Williams (1996) 'Real time monitoring of active forest fires for better natural resource management in developing countries', *Advances in Remote Sensing*, **4**(4),76-83. Eva, H. and **S. Flasse** (1996) 'Contextual and multiple-threshold algorithms for regional active fire detection with AVHRR data', *Remote Sensing Reviews*, **14**(4), 333-351.

Thomson, M. C., S. J. Connor, P. J. M. Milligan, **S. P. Flasse** (1996) 'The ecology of malaria - as seen from earth observation satellites', *Annals of Tropical Medicine and Parasitology*, **90**(3),243-264.

Flasse, S. P. and P. Ceccato (1996) 'A contextual Algorithm for AVHRR fire detection', *International Journal of Remote Sensing*, **17**(2),419-424.

Renders, J.-M. and **S. P. Flasse** (1996) 'Hybrid methods using Genetic Algorithms for global optimization', *IEEE Transactions on Systems, Man, and Cybernetics-Part B: Cybernetics*, **26**(02), 243-258.

Flasse, S., V. Felten and R. Frankart (1991) 'Croisement de données multi-sources pour la détermination de l'aptitude des terres', *Sciences du Sol*, **29**, 55-69.

Book chapters

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