

Curriculum vitae

Number of pages: _____19

Name & Surname: *JAUAD EL KHARRAZ*

Date: *August 2003*

Signature:

PERSONAL DATA

SURNAME: *El Kharraz*

SEX: *M*

NAME: *Jauad*

D.N.I. (Spanish Residence Card): *X2732316P* **CIVIL STATE:** *Single.* **NATIONALITY:** *Moroccan.*

DATE OF BIRTH: *23-01- 1977* **PLACE OF BIRTH:** *Timinidlas (Tétouan- Morocco).*

E-MAIL: jauad@uv.es **WEB:** <http://www.uv.es/ucg> **PHONE:** +34 655352590/963543781 **FAX:** 963543385

PARTICULAR ADDRESS: *C/ Jacinto Benavente 6, pta. 5*

CITY: *Burjassot*

POSTAL CODE: *46100*

SPECIALIZATION (UNESCO CODE): *2509.16*

ACADEMICAL FORMATION

DEGREE	CENTRE	DATE
<i>Bachelor en Physics (Mechanics of Fuils)</i>	<i>University Abdelmalek Saadi,</i>	
	<i>Tétouan (Morocco)</i>	<i>1998</i>
<i>Master degree (MSS / DEA): Excellent</i>	<i>University of Valencia</i>	
	<i>Valencia (Spain)</i>	<i>2001</i>
PH-D		
<i>Scheduled for January 2004</i>	<i>University of Valencia</i>	<i>2003</i>

Director of the thesis: *José Antonio Sobrino y Rodriguez (sobrino@uv.es)*

ACTUAL PROFESIONAL SITUATION

ORGANISM: *University of Valencia.*

FACULTY OR INSTITUT: *Faculty of Physics.*

DEPT./SECTION/UNITY: *Department of Thermodynamics- Global Change Unit.*

PROFESSIONAL CATEGORY AND DATE OF BEGINNING: *Researcher among the Global Change Unit (research group of the University of Valencia) since October 1998.*

MAILING ADDRESS: *Avda. Dr. Moliner, 50; 46100 Burjassot (Valencia)*

PHONE (+34): 96 3543781 **FAX:** 34 96 354 3099

E-MAIL: jauad@uv.es

LANGUAGES (L=little, R= regular, B= good, C= correctly)

LANGUAGE	SPEAKING	READING	WRITING
<i>Spanish</i>	C	C	C
<i>English</i>	C	C	C
<i>French (2nd tongue of Morocco)</i>	C	C	C
<i>Arabic (mother tongue)</i>	C	C	C
<i>Catalan</i>	L	L	L

EDUCATIONAL ACTIVITY CARRIED OUT

- *Physics practices given to the students of the First course of Pharmacy career (2001-2002).*
- *Remote Sensing Practices given to Ph-D students of the Departament of Thermodynamics (2002-2003).*
- *Summer courses given to the students of the summer school of Teruel in the University of Zaragoza: Practice courses of “Introduction to Remote Sensing, MODTRAN, SMAC”, 2000 (3 modules).*
- *Summer courses given to the students of the summer school of Teruel in the University of Zaragoza: Practice courses of “Introduction to Remote Sensing, MODTRAN, SMAC”, 2002 (3 modules).*

PARTICIPATION IN FUNDED RESEARCH PROJECTS

TITLE OF THE PROJECT: *Análisis Multitemporal de Imágenes de Satélite para el estudio de la dinámica de la cobertura terrestre en Marruecos.*

FUNDING ENTITY: *Agencia Española de Cooperación Internacional (AECI) (No. AECI 98-1590)*

DURATION SINCE: 1998 TO: 1999

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez.*

TITLE OF THE PROJECT: *Digital Airborne Imaging Spectrometer Experiment, DAISEX'99*

FUNDING ENTITY: *European Space Agency ESA-ESTEC (13390/NL/GD).*

DURATION SINCE: 1999 TO: 2000

PRINCIPAL INVESTIGASTOR: *José Moreno Méndez*

TITLE OF THE PROJECT: *Multichannel and Multiangle algorithms for deriving sea and land surface temperatures with ENVISAT-AATSR data.*

FUNDING ENTITY: *European Space Agency (Project: AO-ID 384)*

DURATION SINCE: 1999 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez.*

TITLE OF THE PROJECT: *Water use efficiency in natural vegetation and agricultural areas by Remote Sensing in the MEditerranean basin (WATERMED).*

FUNDING ENTITY: *European Union (ICA3-ct-1999-00015) (INCO-MED).*

DURATION SINCE: 2000 TO: 2003

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez.*

TITLE OF THE PROJECT: *Cálculo mediante teledetección de la evapotranspiración en zonas áridas y semiáridas.*

FUNDING ENTITY: *Ministerio de Asuntos Exteriores (Agencia Española de Cooperación Internacional-programa de Cooperación Interuniversitaria Hispano-Marroquí, Ref. 21P/00*

DURATION SINCE: 2000 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez.*

TITLE OF THE PROJECT: *Radiometría de Campo en la región espectral del infarrojo térmico*

FUNDING ENTITY: *Ministerio de Ciencia y Tecnología (Ref: REN2000-0315-CE)*

DURATION SINCE: 2000 TO: 2003

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez.*

TITLE OF THE PROJECT: *Scientific Analysis of the ESA airborne multi-annual imaging spectrometer campaign DAISEX*

FUNDING ENTITY: *ESA*

DURATION SINCE: 2000 TO: 2003

PRINCIPAL INVESTIGASTOR: *Jose F. Moreno*

TITLE OF THE PROJECT: **SOLAR INDUCED FLUORESCENCE EXPERIMENT-SIFLEX**

FUNDING ENTITY: *ESA (ESTEC Contract No. 16030/02/NL/SF).*

DURATION SINCE: 2002 TO: 2003

PRINCIPAL INVESTIGASTOR: *Jose F. Moreno*

TITLE OF THE PROJECT: *Metodologías para el estudio del cambio global en la Península Ibérica a partir de los datos proporcionados por el satélite NOAA y por los sensores remotos de nueva generación.*

FUNDING ENTITY: *Ministerio de Ciencia y Tecnología (REN2001-3105/CLI)*

DURATION SINCE: 2002 TO: 2005

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez.*

TITLE OF THE PROJECT: *Surface Processes and Ecosystems Changes Through Response Analysis-SPECTRA.*

FUNDING ENTITY: *ESA*

DURATION SINCE: 2002 TO: 2003

PRINCIPAL INVESTIGASTOR: *Massimo MENENTI*

TITLE OF THE PROJECT: *First International Symposium on Recent Advances in Quantitative Remote Sensing.*

FUNDING ENTITY: *Ministerio de Ciencia y Tecnología (REN2001-4440-E/CLI)*

DURATION SINCE: 2002 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez*

TITLE OF THE PROJECT: *First International Symposium on Recent Advances in Quantitative Remote Sensing.*

FUNDING ENTITY: *Universitat de Valencia (20010523)*

DURATION SINCE: 2002 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez*

TITLE OF THE PROJECT: *First International Symposium on Recent Advances in Quantitative Remote Sensing.*

FUNDING ENTITY: *Consellería de Innovación y competitividad de la Generalitat Valenciana (CTCOOR/2002/27)*

DURATION SINCE: 2002 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez*

TITLE OF THE PROJECT: *First International Symposium on Recent Advances in Quantitative Remote Sensing*

FUNDING ENTITY: *Consellería de Medio Ambiente de la Generalitat Valenciana.*

DURATION SINCE: 2002 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez*

TITLE OF THE PROJECT: **AYUDAS A ACTIVIDADES DE I+D COOPERATIVAS**

FUNDING ENTITY: *Oficina de Ciencia y tecnología de la Generalitat Valenciana (CTGCA/2002/03/10)*

DURATION SINCE: 2002 TO: 2002

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez*

TITLE OF THE PROJECT: **EAGLE**

FUNDING ENTITY: *European Union (Accepted to be funded).*

DURATION SINCE: 2004 TO: 2007

PRINCIPAL INVESTIGASTOR: *José Antonio Sobrino Rodríguez*

PUBLICATIONS **(without proceedings & congresses)**

KEY: L= complet book, CL= book chapter, A= article, R= review, E= editor.

AUTHORS (By order of signature): *J. A. Sobrino, J. El-Kharraz, Z.-L. Li, Z. Wan*

TITLE: *Surface Temperature Retrieval from MODIS data.*

REF. REVIEW/BOOK: *Sensors, Systems, and Next-Generation Satellites IV, Hiroyuki Fujisada, Joan B. Lurie, Alexander Ropertz, Konradin Weber, Editors, SPIE Vol. 4169, pp. 249-260. (ISBN: 0-8194-3825-1)*

KEY: CL

AUTHORS (By order of signature): *J. A. Sobrino, J. Cuenca, J. El Kharraz, M. Gómez, J. C. Jimenez, N. Raissouni & G. Soria*

TITLE: *Multi-temporal Analysis using NOAA-Pathfinder AVHRR Land Imagery for the Study of the Land Cover Dynamic in the Mediterranean Basin*

REF. REVIEW/BOOK: *Series in Remote Sensing Vol. 2, 395-402. Editors Lorenzo Bruzzone & Paul Smits, 2002 World Scientific Publishing Co. New Jersey, London (ISBN:981-02-4955-1).*

KEY: CL

AUTHORS (By order of signature): J. A. Sobrino, **J. El Kharraz**, et al.

TITLE: Recent Advances in Quantitative Remote Sensing.

REF. REVIEW/BOOK: Servicio de Publicaciones, Universidad de Valencia, 2002.Ed. José A. Sobrino. (ISBN: 84-370-5515-6).
KEY: CL, E

AUTHORS (By order of signature): J. A. Sobrino, N. Raissouni, **J. El Kharraz**, J. C. Jiménez, G. Sòria.

TITLE: Un método para el seguimiento de la cobertura terrestre en la cuenca Mediterránea.

REF. REVIEW/BOOK: *Revista EspYEARla de Teledetección*. 2001. 16: 25-28.
KEY: A

AUTHORS (By order of signature): **J. El Kharraz** & J. A. Sobrino.

TITLE: Estimación de la temperatura de la superficie terrestre y del contenido total en vapor de agua atmosférico a partir de datos MODIS.

REF. REVIEW/BOOK: *Revista EspYEARla de Teledetección*. N° 7/ 2003. (in press).
KEY: A

AUTHORS (By order of signature): J. A. Sobrino, **J. El Kharraz**, J. C. Jimenez-Muñoz, G. Sòria, M. Gómez, M. Romaguera,

TITLE: On the monitoring of land cover dynamic using NOAA pathfinder time series (1981-2001) over the mediterranean basin

REF. REVIEW/BOOK: *Recent Research Developments in Geophysics, Research Signpost*, 37/661 (2), Vol 4, pp: 225-234. 2002.
KEY: A

AUTHORS (By order of signature): **J. El Kharraz** & J. A. Sobrino.

TITLE: Operational algorithms to retrieve surface temperature and atmospheric water vapour content from MODIS data.

REF. REVIEW/BOOK: *Recent Research Developments in Geophysics, Research Signpost*, (in press) 2003.
KEY: A

AUTHORS (By order of signature): M. Nemiche, Antonio C. Moncho, Jose I. Lucas, Luis A. Quintero & **J. El Kharraz**.

TITLE: A Systemic Model to simulate the training and employment in "La Coma"

REF. REVIEW/BOOK: *Revista Internacional de SisSUBJECTs*, 2002
KEY: A

AUTHORS (By order of signature): J. A. Sobrino, **J. El Kharraz**, Zhang-Liang Li

TITLE: Surface temperature and water vapour retrieval from MODIS data.

REF. REVIEW/BOOK: *International Journal of Remote Sensing*, Vol. 24, pp. 2003.
KEY: A

AUTHORS (By order of signature): J. A. Sobrino, J. C. Jimenez-Muñoz, **J. El Kharraz**, M. Gómez, M. Romaguera, y G. Sòria.

TITLE: Single-channel and two-channel methods for land surface temperature retrieval from DAIS data and its application to the Barrax site.

REF. REVIEW/BOOK: *International Journal of Remote Sensing*, Vol. 24, pp. 2003.
KEY: A

AUTHORS: **J. El Kharraz**, J. A. Sobrino, L. Morales, J. C. Jiménez-Muñoz, G. Sòria, M. Gómez, M. Romaguera.
TITLE: Land cover dynamic analysis over the Mediterranean Basin by means of remotely sensed and climatic data.
PARTICIPATION TYPE: Proceedings de SPIE'03.
REF. REVIEW/BOOK: Remote Sensing for Agriculture, Ecosystems, and Hydrology V, Manfred Owe, Guido D'Urso, Jose F. Moreno, Alfonso Calera, Editors, SPIE Vol. (in press)

KEY: CL

AUTHORS: G. Sòria, J. A. Sobrino, J. C. Jiménez-Muñoz, **J.El-Kharraz** , M. Gómez, M. Romaguera & J. Cuenca.
TITLE: Characterization of thermal parameters in support of SIFLEX campaign.
PARTICIPATION TYPE: Proceedings de SPIE'03.
REF. REVIEW/BOOK: Remote Sensing for Agriculture, Ecosystems, and Hydrology V, Manfred Owe, Guido D'Urso, Jose F. Moreno, Alfonso Calera, Editors, SPIE Vol. (in press)

KEY: CL

AUTHORS: **J. El Kharraz**, J. A. Sobrino, L. Morales.
TITLE: Land cover dynamic and climatic analysis over the Mediterranean Basin using PATHFINDER and REANALYSIS data.
REF. REVIEW/BOOK: To be sent soon to the International Journal of Meteorology. 2003.

KEY: A

AUTHORS: *Vicent Sanchis i Sanpedro y Jauad El Kharraz.*
TITLE: *Internet Básico, Curso CiberAula.*
REF. REVIEW/BOOK: *Colegio Mayor La Coma (Universidad de Valencia), 209 pp, 2001.*

CLAVE: L

PROCEEDINGS IN CONGRESSES

AUTHORS: M. H. El Kharraz, J. A. Sobrino & **J. El Kharraz**
TITLE: Un algoritmo operativo para la estimación de la inercia térmica a partir de las imágenes NOAA-AVHRR.
PARTICIPATION TYPE: Oral Communication
SYMPOSIUM: XXVII Reunión Bienal de la Real Sociedad Española de Física.
PUBLICATION: Libro de Resúmenes de las Comunicaciones, Tomo II, pp. 546-547.
PLACE OF CELEBRATION: Valencia, 20-24 Septiembre

YEAR:1999

AUTHORS: J.A.Sobrino, **J. El-Kharraz**, Z.-L.-Li, Z. Wan
TITLE: Surface temperature retrieval from MODIS data
PARTICIPATION TYPE: Oral Communication (en inglés: Jauad).
CONGRESS: XXV The European Symposium on Remote Sensing
PUBLICATION: SPIE-EUROPTO series
CELEBRATION PLACE: Barcelona, 25-29 Septiembre

YEAR:2000.

AUTHORS : L. Alonso, J. A. Sobrino, **J. El Kharraz**, et al.
TITLE: Surface Radiometric measurements at Barrax
PARTICIPATION TYPE: Oral Communication
CONGRESS: DAISEX Final Results Workshop
PUBLICATION: ESA
CELEBRATION PLACE: 15-16 Marzo 2001 – ESTEC- Noordwijk, Holanda. YEAR:2001.

AUTHORS : J. A. Sobrino, N. Raissouni, **J. El Kharraz**, J. C. Jimenez. G. Soria.
TITLE: Un método para el seguimiento de la cobertura terrestre en la Cuenca Mediterránea
PARTICIPATION TYPE: Comunicación
CONGRESS: IX CONGRESS Nacional de Teledetección
PUBLICATION:
CELEBRATION PLACE: Universidad de Lleida, 19-21 septiembre de 2001 YEAR:2001.

AUTHORS: J. C. Jimenez-Muñoz, M. Gómez, J. A. Sobrino, G. Soria, **J. El Kharraz**, J. Labed Nachbrand
TITLE: Retrieval of biophysical parameters from DAIS data
PARTICIPATION TYPE: Poster
CONGRESS: First International Symposium on Recent Advances and quantitative Remote Sensing.
PUBLICATION: Recent Advances and quantitative Remote Sensing, Ed. J. A. Sobrino, Servei de Publicacions, Universitat de Valencia, pp.566-572. (ISBN: 84-370-5515-6).
CELEBRATION PLACE: 16-20 Septiembre 2002, Torrent-Valencia, España. YEAR:2002.

AUTHORS: J. A. Sobrino, **J. El Kharraz**, M. Romaguera, M. Gómez, J. C. Jimenez-Muñoz, G. Soria.
TITLE: Land cover change monitoring in the Mediterranean Basin using NOAA-Pathfinder time series (1981-2001): WATERMED project.
PARTICIPATION TYPE: Poster
CONGRESS: First International Symposium on Recent Advances and quantitative Remote Sensing.
PUBLICATION: Recent Advances and quantitative Remote Sensing, Ed. J. A. Sobrino, Servei de Publicacions, Universitat de Valencia, pp.935-940. (ISBN: 84-370-5515-6).
CELEBRATION PLACE: 16-20 Septiembre 2002, Torrent-Valencia, España. YEAR:2002.

AUTHORS: **J. El Kharraz**, J. A. Sobrino, M. Gómez, J. C. Jimenez-Muñoz, G. Soria.
TITLE: Water vapour retrieval from MODIS data.
PARTICIPATION TYPE: Poster
CONGRESS: First International Symposium on Recent Advances and quantitative Remote Sensing.
PUBLICATION: Recent Advances and quantitative Remote Sensing, Ed. J. A. Sobrino, Servei de Publicacions, Universitat de Valencia, pp.941-945. (ISBN: 84-370-5515-6).
CELEBRATION PLACE: 16-20 Septiembre 2002, Torrent-Valencia, España. YEAR:2002.

AUTHORS: G. Soria, J. A. Sobrino, J. Cuenca, A. J. Prata, J. C. Jimenez-Muñoz, M. Gómez, **J. El Kharraz**
TITLE: Surface temperature retrieval from ATSR data: multichannel and multiangle algorithms.
PARTICIPATION TYPE: Poster
CONGRESS: First International Symposium on Recent Advances and quantitative Remote Sensing.
PUBLICATION: Recent Advances and quantitative Remote Sensing, Ed. J. A. Sobrino, Servei de Publicacions, Universitat de Valencia, pp.952-955. (ISBN: 84-370-5515-6).
CELEBRATION PLACE: 16-20 Septiembre 2002, Torrent-Valencia, España. YEAR:2002.

AUTHORS: Alonso, L., Camacho-de-Coca, F., Caselles, V., Coll, C., Cuenca, J., Cuñat, C., Dempere, L., El-Kharraz, H., **El-Kharraz, J.**, Fernández, G., García, J.C., y otros.
TITLE: Surface Radiometric Measurements at Barrax.
PARTICIPATION TYPE: Oral Communication
SYMPOSIUM: DAISEX Final Results Workshop.
PUBLICATION: ESA SP-499, pp. 71-77.
CELEBRATION PLACE: ESA-ESTEC, Noordwijk, Holanda. YEAR:2001.

AUTHORS: Sobrino, J.A., G. Sòria, J. C. Jimenez-Muñoz, **J. El Kharraz**, M. Gómez.
TITLE: Thermal measurements in support of SIFLEX
PARTICIPATION TYPE: Oral Communication
SYMPOSIUM: 1st Workshop on Remote Sensing of Solar Induced vegetation Fluorescence.
PUBLICATION: ESA SP-527.
CELEBRATION PLACE: 19 &20 June, ESA-ESTEC, Noordwijk, Holanda. YEAR:2002.

AUTHORS: Sobrino, J.A., G. Sòria, J. C. Jimenez-Muñoz, **J. El Kharraz**, M. Gómez.
TITLE: Thermal measurements in support of SIFLEX
PARTICIPATION TYPE: Oral Communication
CONGRESS: 1st Workshop on Remote Sensing of Solar Induced vegetation Fluorescence.
PUBLICATION: Acta de Resúmenes.
CELEBRATION PLACE: 19 &20 June, ESA-ESTEC, Noordwijk, Holanda. YEAR:2002.

AUTHORS: M. Davidson, I. Moya, A. Ounis, J. Louis, J. M. Ducret, J. Moreno, V. Caselles, J. A. Sobrino, L. Alonso, R. Pedrós, J. C. Jiménez, J.L. Gómez- Amo, G. Soria, R. Niclós, **J. El-Kharraz**, J.A. Martínez.
TITLE: The Solar Induced Fluorescence Experiment (SIFLEX 2002): Campaign Overview.
PARTICIPATION TYPE: Proceedings de FLEX Workshop.
CONGRESS: FLEX Workshop.
PUBLICATION: Libro de Proceedings de FLEX Workshop, Vol.1
CELEBRATION PLACE: ESA-ESTEC, Noordwijk, Holanda. YEAR:2002.

AUTHORS: **J. El Kharraz**.
TITLE: Atmospheric Water Vapor Retrieval from MODIS Data.
PARTICIPATION TYPE: Proceedings de ICAS.
CONGRESO: 23rd ICAS Congress (Session 8.9).
PUBLICATION: Libro de Proceedings de ICAS.
CELEBRATION PLACE: 08-13 Septiembre, Toronto, Canada. YEAR:2002.

AUTHORS: J. A. Sobrino, M. Gómez, J. C. Jimenez, G. Sòria, **J. El Kharraz**, M. Romaguera.
TITLE: Estimation of the evapotranspiration from DAIS data
PARTICIPATION TYPE: Poster
CONGRESS: EGS-AGU-EUG
CELEBRATION PLACE: Nice, France, 06-11 April YEAR:2003.

AUTHORS: J. A. Sobrino, J. C. Jimenez, **J. El Kharraz**, M. Gómez, M. Romaguera, and G. Sòria,
TITLE: Analyzing angular and up-scaling effects in the thermal infared region from DAIS data
PARTICIPATION TYPE: Poster
CONGRESS: EGS-AGU-EUG
CELEBRATION PLACE: Nice, France, 06-11 April YEAR:2003.

AUTHORS: **J. El-Kharraz**, J. A. Sobrino, L. J. Morales, J. C. Jiménez-Muñoz, G. Sòria, M. Gómez & M. Romaguera.
TITLE: Land Surface Temperature and NDVI Time Series Derived from NOAA-Pathfinder Images and Reanalysis Data over the Mediterranean Basin.
PARTICIPATION TYPE: Proceedings de IGARSS'03.
CONGRESS: IGARSS'2003.
PUBLICATION: Libro de Proceedings de IGARSS'03.
CELEBRATION PLACE: 21-25 Julio 2003, Toulouse, Francia. YEAR:2003.

AUTHORS: M. Davidson, M. Berger, I. Moya, A. Ounis, J. Louis, J.-M. Ducret, J. Moreno, V. Casselles, J. Sobrino, L. Alonso, R. Pedros, J.C. Jimenez, J.-L. Gomez, G. Soria, R. Niclos, **J. El-Kharraz**, J.A. Martinez-Lozano, M.P. Utrillas, J. Miller, T. Laurila, T. Thum.
TITLE: SIFLEX-2002: assessing the potential of solar induced fluorescence for monitoring vegetation photosynthetic activity from space.
PARTICIPATION TYPE: Proceedings de IGARSS'03.
CONGRESS: IGARSS'2003.
PUBLICATION: Libro de Proceedings de IGARSS'03.
CELEBRATION PLACE: 21-25 Julio 2003, Toulouse, Francia. YEAR:2003.

AUTHORS: J. C. Jiménez-Muñoz, J. A. Sobrino, **J. El Kharraz**, M. Gómez, M. Romaguera y G. Sòria.
TITLE: Synergistic Use of DAIS Bands to Retrieve Land Surface Emissivity and Temperature.
PARTICIPATION TYPE: Proceedings de IGARSS'03.
CONGRESS: IGARSS'2003.
PUBLICATION: Libro de Proceedings de IGARSS'03.
CELEBRATION PLACE: 21-25 Julio 2003, Toulouse, Francia. YEAR:2003.

AUTHORS: **J. El Kharraz**, J. A. Sobrino, L. Morales, J. C. Jiménez-Muñoz, G. Sòria, M. Gómez, M. Romaguera.
TITLE: Land cover dynamic analysis over the Mediterranean Basin by means of remotely sensed and climatic data.
PARTICIPATION TYPE: Proceedings de SPIE'03.
CONGRESS: SPIE'2003.
PUBLICATION: Libro de Proceedings de SPIE'03.
CELEBRATION PLACE: 08-12 Septiembre 2003, Barcelona, España. YEAR:2003.

AUTHORS: **J. El Kharraz**, V. Estellés, J. A. Sobrino, J. M. Lozano y P. Utrillas.
TITLE: Estimación del contenido total en vapor de agua de la atmósfera mediante datos del sensor MODIS y comparación con otras técnicas.
PARTICIPATION TYPE: Proceedings del X CONGRESS nacional de Teledetección.
CONGRESS: X CONGRESS nacional de Teledetección.
PUBLICATION: Libro de Proceedings del X CONGRESS nacional de Teledetección.
CELEBRATION PLACE: 17-19 Septiembre 2003, Caceres, España. YEAR:2003.

AUTHORS: J. A. Sobrino, G. Sòria, J. Cuenca, J. C. Jiménez-Muñoz, M. Gómez, **J.El-Kharraz** & A. J. Prata.
TITLE: Angular effect on Surface Temperature estimation from AATSR data.
PARTICIPATION TYPE: Proceedings de IGARSS'03.
CONGRESS: IGARSS'2003.
PUBLICATION: Libro de Proceedings de IGARSS'03.
CELEBRATION PLACE: 21-25 Julio 2003, Toulouse, Francia. YEAR:2003.

AUTHORS: G. Sòria, J. A. Sobrino, J. C. Jiménez-Muñoz, **J.El-Kharraz** , M. Gómez, M. Romaguera & J. Cuenca.
TITLE: Characterization of thermal parameters in support of SIFLEX campaign.
PARTICIPATION TYPE: Proceedings de SPIE'03.
CONGRESS: SPIE'2003.
PUBLICATION: Libro de Proceedings de SPIE'03.
CELEBRATION PLACE: 08-12 Septiembre 2003, Barcelona, España. YEAR:2003.

OTHER RESEARCH WORKS

AUTHORS: J.A. Sobrino, N. Raissouni, M.H. El Kharraz, J. Cuenca & **J. El Kharraz**.

TITLE: Análisis Multitemporal de Imágenes de Satélite para el Estudio de la Dinámica de la Cobertura Terrestre en Marruecos.

PUBLICATION TYPE: Informe final del Proyecto del mismo nombre financiado por la AECI.

REF. PUBLICATION: Unidad de Cambio Global, Universitat de Valencia, pp. 180, 1999.

AUTHORS: J. Moreno, J.A. Sobrino, **J. El Kharraz** et al.

TITLE: Technical assistance for the deployment of ground-based instruments in DAISEX 1999. Field experiment report.

PUBLICATION TYPE: Report de la experiencia de campo.

REF. PUBLICATION: European Space Agency (ESTEC Contract nº 13053/NL/CD). 1998.

AUTHORS: J. Moreno, J.A. Sobrino, **J. El Kharraz** et al.

TITLE: Technical assistance for the deployment of ground-based instruments in DAISEX 1999. Field experiment report.

PUBLICATION TYPE: Report de la experiencia de campo.

REF. PUBLICATION: European Space Agency (ESTEC Contract nº 13390/NL/CD). 1999

AUTHORS: J. Moreno, J.A. Sobrino, **J. El Kharraz** et al.

TITLE: TECHNICAL ASSISTANCE FOR SPECTROSCOPIC MEASUREMENTS DURING
SIFLEX - 2002 CAMPAIGN. SOLAR INDUCED FLUORESCENCE EXPERIMENT

PUBLICATION TYPE: Report de la experiencia de campo.

REF. PUBLICATION: European Space Agency (**ESTEC Contract No. 16030/02/NL/SF**). 2002

TOWN: *Strasbourg*

COUNTRY: *France*

YEAR: *1999*

DURATION: *1 month*

SUBJECT: *Field measurements*

KEY: *I*

AUTHORS: J.A. Sobrino, N. Raissouni, **J. El Kharraz**, J. Cuenca, M.H. El Kharraz & M. Younis.

TITLE: First Annual report (WATERMED project, ICA-ct-1999-00015).

PUBLICATION TYPE: Informe del primer año del Proyecto del mismo nombre financiado por la Unión Europea.

PUBLICATION. REF.: Unidad de Cambio Global, Universitat de Valencia, pp. 180, 2001.

AUTHORS: J.A. Sobrino, **J. El Kharraz**, J. C. Jiménez, G. Sòria, J. Cuenca, M. Gómez, M. Younis y F. Camacho.

TITLE: Second Annual report (WATERMED project, ICA-ct-1999-00015).

PUBLICATION TYPE: Informe del segundo año del Proyecto del mismo nombre financiado por la Unión Europea.

PUBLICATION REF.: Unidad de Cambio Global, Universitat de Valencia, pp. 154, 2002.

AUTHORS: J.A. Sobrino, **J. El Kharraz**, M. Romaguera, J. C. Jiménez, G. Sòria, M. Gómez y M. Younis.

TITLE: Third Annual report (WATERMED project, ICA-ct-1999-00015).

PUBLICATION TYPE: Informe del tercer año del Proyecto del mismo nombre financiado por la Unión Europea.

PUBLICATION REF.: Unidad de Cambio Global, Universitat de Valencia, pp. 143, 2003.

**PARTICIPATION IN SPECIAL CONTRACTS RELEVANTS TO COMPANIES AND/ OR
ADMINISTRATIONS**

TITLE OF THE CONTRACT: *DAISEX'99*
FUNDING ENTITY: *ESA*
DURATION SINCE: *1999* TO: *2000*
PRINCIPAL INVESTIGATOR: *José Moreno Méndez*

TITLE OF THE CONTRACT: *DAISEX'2000*
FUNDING ENTITY: *ESA*
DURATION SINCE: *2000* TO: *2001*
PRINCIPAL INVESTIGATOR: *José Moreno Méndez*

TITLE OF THE CONTRACT: *WATERMED*
FUNDING ENTITY: *UNION EUROPEA*
DURATION SINCE: *2000* TO: *2003*
PRINCIPAL INVESTIGATOR: *José A. Sobrino Rodríguez*

STAYS IN FOREIGN CENTERS

KEY: D= PH-D, P= POST-DOC, I= invited, C= contracted, O= others (to specify).

CENTRE: *Finnish Meteorological Institut, Sodankyla.*
TOWN: *Sodankyla* COUNTRY: *FINLAND* YEAR: *2002* DURATION: *17 days*
SUBJECT: *MEASUREMENTS CAMPAIGNSIFLEX.* KEY: *I*

CENTRE: *Université de Sémala, Marrakech*
TOWN: *Marrakech* COUNTRY: *MOROCCO* YEAR: *2001* DURATION: *1 week*
SUBJECT: *Reunion de logística del Proyecto WATERMED.* KEY: *I*

CENTRE: *Université de Sémala, Marrakech*
TOWN: *Marrakech* COUNTRY: *MOROCCO* YEAR: *2002* DURATION: *1 week*
SUBJECT: *Reunion de logística del Proyecto WATERMED.* KEY: *I*

CENTRE: *Université de Sémala, Marrakech*
TOWN: *Marrakech* COUNTRY: *MOROCCO* YEAR: *2003* DURATION: *2 weeks*
SUBJECT: *MEASUREMENTS CAMPAIGN WATERMED.* KEY: *I*

PARTICIPATION IN FIELD MEASUREMENTS CAMPAIGNS

CENTRE: *Barrax*
TOWN: *Albacete* COUNTRY: *SPAIN* YEAR: *1999* DURATION: *1 week*
SUBJECT: *MEASUREMENTS CAMPAIGNDAISEX'99.* KEY: *I*

CENTRE: *Barrax*
TOWN: *Albacete* COUNTRY: *SPAIN* YEAR: *2000* DURATION: *1 week*
SUBJECT: *MEASUREMENTS CAMPAIGNDAISEX'00.*
KEY: *I*

CENTRE: *Murcia*
TOWN: *Murcia* COUNTRY: *SPAIN* YEAR: *2001* DURATION: *2 days*
SUBJECT: *MEASUREMENTS CAMPAIGNdel proyecto WATERMED.* KEY: *I*

CENTRE: *Finnish Meteorological Institut, Sodankyla.*
TOWN: *Sodankyla* COUNTRY: *FINLAND* YEAR: *2002* DURATION: *17 days*
SUBJECT: *MEASUREMENTS CAMPAIGNSIFLEX.* KEY: *I*

CENTRE: *Université de Semlalia, Marrakech*
TOWN: *Marrakech* COUNTRY: *MOROCCO* YEAR: *2003* DURATION: *2 weeks*
SUBJECT: *MEASUREMENTS CAMPAIGNdel Proyecto WATERMED (coordinador).* KEY: *I*

CONGRESSES (communications presented).

AUTHORS: M. H. El Kharraz, J. A. Sobrino & **J. El Kharraz**
TITLE: Un algoritmo operativo para la estimación de la inercia térmica a partir de las imágenes NOAA-AVHRR.
PARTICIPATION TYPE: Oral Communication
CONGRESS: XXVII Reunión Bienal de la Real Sociedad Española de Física.
CELEBRATION PLACE: Valencia, 20-24 Septiembre YEAR: 1999

AUTHORS: J.A.Sobrino, **J. El-Kharraz**, Z.-L.-Li, Z. Wan
TITLE: Surface temperature retrieval from MODIS data
PARTICIPATION TYPE: Oral Communication
CONGRESS: XXV The European Symposium on Remote Sensing
CELEBRATION PLACE: Barcelona, 25-29 Septiembre YEAR: 2000.

AUTHORS: José A. Sobrino, A. Ghani Chehbouni, **Jauad El Kharraz**, Mónica Gómez, Albert Olioso, Charlotte Bay Hasager, Noura Guemouria, y Sami Abdel Arman.

TITLE: WATERMED - water use efficiency in natural vegetation and agricultural areas by remote sensing in the mediterranean basin

PARTICIPATION TYPE: Oral Communication (en inglés: Jauad).

CONGRESS: 1th International Symposium "Arid Regions Monitored by Satellites: from Observing to modelling for Sustainable Management"

CELEBRATION PLACE: Marrakech, 12-15 Noviembre

YEAR:2001.

AUTHORS: Sobrino, J.A., G. Sòria, J. C. Jiménez-Muñoz, **J. El Kharraz**, M. Gómez.

TITLE: Thermal measurements in support of SIFLEX

PARTICIPATION TYPE: Oral Communication

CONGRESS: 1st Workshop on Remote Sensing of Solar Induced vegetation Fluorescence.

PUBLICATION: ESA SP-527.

CELEBRATION PLACE: 19 &20 June, ESA-ESTEC, Noordwijk, Holanda.

YEAR:2002.

AUTHORS: Sobrino, J.A., G. Sòria, J. C. Jiménez-Muñoz, **J. El Kharraz**, M. Gómez.

TITLE: Thermal measurements in support of SIFLEX

PARTICIPATION TYPE: Oral Communication

CONGRESS: 1st Workshop on Remote Sensing of Solar Induced vegetation Fluorescence.

PUBLICATION: Acta de Resúmenes.

CELEBRATION PLACE: 19 &20 June, ESA-ESTEC, Noordwijk, Holanda.

YEAR:2002.

AUTHORS: M. Davidson, M. Berger, I. Moya, A. Ounis, J. Louis, J.-M. Ducret, J. Moreno, V. Casselles, J. Sobrino, L. Alonso, R. Pedros, J.C. Jimenez, J.-L. Gomez, G. Soria, R. Niclos, **J. El-Kharraz**, J.A. Martinez-Lozano, M.P. Utrillas, J. Miller, T. Laurila, T. Thum.

TITLE: SIFLEX-2002: assessing the potential of solar induced fluorescence for monitoring vegetation photosynthetic activity from space.

PARTICIPATION TYPE: Oral Communication.

CONGRESS: IGARSS'2003.

PUBLICATION: Libro de Proceedings de IGARSS'03.

CELEBRATION PLACE: 21-25 Julio 2003, Toulouse, Francia.

YEAR:2003.

AUTHORS: J. C. Jiménez-Muñoz, J. A. Sobrino, **J. El-Kharraz**, M. Gómez, M. Romaguera y G. Sòria.

TITLE: Synergistic Use of DAIS Bands to Retrieve Land Surface Emissivity and Temperature.

PARTICIPATION TYPE: Oral Communication.

CONGRESS: IGARSS'2003.

PUBLICATION: Libro de Proceedings de IGARSS'03.

CELEBRATION PLACE: 21-25 Julio 2003, Toulouse, Francia.

YEAR:2003.

ORGANISED CONFERENCES

TITLE: *Remote Sensing and its applications.*

EVENT: Organised by **Jauad El Kharraz** with “ Colegio Mayor La Coma” of the University of Valencia.

PRESENTATION PLACE: *Colegio Mayor la Coma, Paterna (Valencia), 8 Mayo*

PRESENTER: Dr. José Antonio Sobrino

YEAR: 2000

TITLE: *Remote Sensing.*

EVENT: Organised by **Jauad El Kharraz** into the frame of the welcome week of the association AEMV of the University of Valencia.

PRESENTATION PLACE: *Campus de Tarongers, Aulario Sur (Valencia), 30 Octubre*

PRESENTER: Dr. José Antonio Sobrino

YEAR: 2002

RESEARCH WORKS PRESENTED (MSS DEGREE/ = DEA)

TITLE: Estimación de la Temperatura de la superficie terrestre y del contenido total en vapor de agua de la atmósfera a partir de datos MODIS.

EVENT: Trabajo de Investigación de **Jauad El Kharraz**.

UNIVERSITY: *Valencia.*

FACULTAD/ ESCUELA: *Physics.*

YEAR: 2001.

QUALIFICATION: *Excellent*

FORMATION COURSES

- Ph-d courses:

- Tratamiento digital de imágenes en teledetección (curso 98/99 con la calificación sobresaliente).
- Fundamentos físicos de la teledetección (curso 98/99 con la calificación sobresaliente).
- Medida de la emisividad y reflectividad (curso 98/99 con la calificación sobresaliente).
- Climatología y meteorología desde satélites y cambio climático (curso 99/2000).
- Análisis datos caóticos experimentales (curso 99/2000).
- Desertificación: Conceptos, factores y procesos (curso 99/2000).
- Análisis territorial por teledetección espacial (curso 99/2000).

- Specialized courses:

- Accessing and Understanding MODIS Data, (professors: Gregory Leptoukh, “NASA Goddard Space Flight Center Greenbelt Maryland USA”, Calli B. Jenkerson, “USGS, Sioux Falls South Dakota USA” y Siri Jodha Singh Khalsa, “National Snow and Ice Data Center Boulder Colorado USA”, Toulouse, 20 July 2003.

- Other courses:

- Cursos de Visual C++ en la Universidad Politécnica de Valencia(1999).
- Cursos de lengua y cultura española (nivel perfeccionamiento) en “Valencia Acoge” (98/99).

- Curso de Photoshop 5 en Casa Cultura, Burjassot, Valencia.
- Curso de Dreamweaver, Universidad de Valencia.
- English courses in “Opening English” institut (levels: 7-11: advanced), Valencia, 2002-2003.

FORMATION GRANTS

- 1994- 1998: Ministerio de Educación (Marruecos), Universidad Abdelmalek Essaadi, Facultad de ciencias, Tétouan: (Estudios universitarios).
- July 1998: Grant of North-South (ayuda de manutención).
- October 1999- July 2000: Beca del Colegio Mayor La Coma(alojamiento y manutención).
- March- August2000: Collaboration grant into the frame of the WATERMED project funded by the European Commission.
- September 2000- January 2004: Research grant into the frame of the WATERMED project funded by the European Commission.

KNOWLEDGE

- Simulation programs for the computation of atmospheric radiances and transmittances: LOWTRAN-7, SMAC, MODTRAN 2 and MODTRAN 3.5.
- Processing images softwares: ENVI and IDRISI.
- Processing climate data by REANALYSIS-GRADS.
- Control of the databases: PATHFINDER satellite data) and REANALYSIS (climate data).
- Simulation program of the covers production: WOFOST.
- Experimental measurements of temperature, emissivity, reflectivity, LAI, etc with different instruments: CIMEL, EVEREST, RAYTEK, Thermo-couple, etc.), BOX, Goniometer, etc.
- Computer skills: Excell, Word, Power Point, Publisher, Frontpage, Paint Shop, Windows 95/98/XP, MS-DOS, UNIX, QBasic, Fortran, Turbo C, Visual C++, IDL, IDRISI, Mac-OS, HTML, JAVA.
- Webmaster and Webdesigner of many websites: Global Change Unit (<http://www.uv.es/ucg>), WATERMED project (<http://www.uv.es/ucg/watermed>), First International Symposium on Recent Advances in Quantitative Remote (<http://www.uv.es/ucg/symposium>), Field campaiings (<http://www.uv.es/ucg/marrakech>), AEMV (<http://www.uv.es/aemv>), personal websites (<http://www.uv.es/~jauad>, <http://mural.uv.es/jauelk>), etc.

CONTACTS AND COLLABORATIONS WITH FOREIGNER ORGANIZATIONS

-
- *University Cadi Ayyad, Marrakech, Morocco (Dr. Noura Guemmouria).*
 - *IRD, France (Dr. Ghani Chehbouni).*
 - *CESBIO, France (Dr. Gérard Dédieu).*
 - *INRA, France (Dr. Alber Oliso).*
 - *NARSS, Egypt (Dr. Mahmoud Ahmed).*
 - *NASA, USA (Dr. Zhenming Wan).*
 - *TRIO/LSIT (CNRS), France (Dr. Zhang Liang Li).*
 - *Applied Research Institute of Jerusalem, Palestine (Dr. Majed Abu Kubi).*
 - *Dept. of Environmental Sciences and Renewable Natural Resources, University of Chile, Chile (Dr. Luis Morales).*
 - *RISOE, Denmark (Dr. Charlotte Hasager).*
 - *Arabian Gulf University, Manama, Bahrain (Dr. Mohamed Ait Belaid).*
 - *CRTS, Rabat, Morocco (Dr. Noureddine Bijaber).*
 - *ESA, Holland (Dr. Malcolm Davidson).*
 - *etc.*
-

OTHER MERITS

-
- *Investigator of the European project "Water use efficiency in natural vegetation and agricultural areas by Remote Sensing in the MEDiterranean basin" (WATERMED), funded by the European commission.*
 - *Referee of many international journals: International Journal of Remote Sensing, y IEEE Transactions and Geoscience and Remote Sensing (emery@colorado.edu).*
 - *Professor in the Summer School of Teruel, University of Zaragoza, July 2000 and July 2002.*
 - *Experience gained in preparing projects for European, Mediterranean, and national (Spanish) proposals (Remote Sensing, Water management, relation with decision and policy makers, e.g: Water use efficiency in natural vegetation and agricultural areas by Remote Sensing in the MEDiterranean basin, Sustainable management of water resources in arid and semi-arid regions, etc).*
 - *Member of the AATSR Land Surface Temperature Validation Team. Coordinated by Dr. Marianne Edwards and Prof. David Llewellyn-Jones from Space Research Centre, Department of Physics and Astronomy, University of Leicester, University Road, Leicester (mce1@le.ac.uk).*
 - *Member, organizer, and one of the founders of the First International Symposium on Recent Advances in Quantitative Remote Sensing held in Torrent (Valencia) between 16 and 20 September, 2002 (<http://www.uv.es/ucg/symposium>).*
 - *Member since October 1998 of the Global Change Unit and the Departament of Thermodynamics (University of Valencia), under supervision of Dr. José Antonio Sobrino and with a team of investigators working in different issues*

of Remote Sensing sciences and applications.

- *Member of the Spanish Association of Remote Sensing and the Canadian Association of Remote Sensing.*
- *Attendance to many workshops, conferences, and meetings (Workshop of DAISEX, Valencia; Workshop of SIFLEX, Sodankyla “Finland”, Workshop of AATSR, Valencia; Workshop of LANDWATERMED, Valencia, Workshop of WATERMED, Avignon “Francia”, etc).*
- *Attendance to the first and second meetings of the hispanic-arabic intellectuals held both in Madrid, June, 2002 and June 2003.*
- *President of the Association of Arabic students of the University of Valencia “AEMV”: 2002-2003.*
- *Organizer of the Welcome week of AEMV, October, 28- November, 03, 2002, Campus de Tarongers, University of Valencia.*
- *Member of MODIS Atmosphere users list (<http://modis-atmos.gsfc.nasa.gov/>).*
- *Member of SPARC, DAISEX, SIFLEX list (<http://io.uv.es/projects>)*
- *Manager of the AEMV’s list of emails (more than 300 emails).*
- *Member of the EMWIS/ SEMIDE Forum since 2002.*
- *Member of The European Organisation for Sciences and Technology Development, Paris, France.*