

STARLIGHT RESERVES AND WORLD HERITAGE

SCIENTIFIC, CULTURAL AND
ENVIRONMENTAL VALUES



INTERNATIONAL
WORKSHOP AND
EXPERT MEETING

FUERTEVENTURA
10-11 MARCH 2009



Rio Calma Hotel - R2

STARLIGHT

RESERVES AND WORLD HERITAGE SCIENTIFIC, CULTURAL AND ENVIRONMENTAL VALUES



VENUE:

**R2 RIO CALMA HOTEL - COSTA CALMA - FUERTEVENTURA
CANARY ISLANDS**

PROGRAMME

March 9th - Reception Cocktail offered by the Pájara Municipality

March 10th, 2009

Opening Session

9.00 h Opening session

Mario Cabrera González

President of the Fuerteventura Island Government

Paulino Rivero

President - Canary Islands Government

Rafael Perdomo Betancor

Mayor of Pájara. Fuerteventura.

María Jesús San Segundo

Chairperson of the World Heritage Committee

Permanent Delegate of the Kingdom of Spain to UNESCO

Francisco Sánchez

Director. Instituto de Astrofísica de Canarias (IAC)

Eduardo Fayos Solá

Regional Representative for Europe

UN - World Tourism Organization (UN-WTO)

Malcolm G. Smith

President of IAU Division XII

Maguelonne Déjeant-Pons

Head of the Spatial Planning and Landscape Division
Council of Europe

Introductory speech

SCIENCE, TECHNOLOGY AND WORLD HERITAGE

Mechtild Rössler

Chief of the Europe and North America Section,
UNESCO - World Heritage Centre



Starlight Reserves - Astronomical Sites

10.30 h **1st Session**

Chairperson: Natalia Évora Soto

Councillor of Environment and Public Works.
Fuerteventura Island Government.

THE STARLIGHT RESERVE CONCEPT

Cipriano Marín

Coordinator of the Starlight Initiative

THE PROTECTION OF ASTRONOMICAL SITES

Richard Wainscoat

University of Hawaii Honolulu. Institute of Astronomy
President of Commission 50: Protection of Existing & Potential
Observatory Sites - IAU Division XII

THE CANARY ISLANDS' SKY LAW: A PRACTICAL EXPERIENCE OF ASTRONOMICAL SITE PROTECTION

Francisco Javier Díaz Castro

Head of the Sky Protection Unit
OTPC-IAC

OBSERVING SITES CHARACTERIZATION

Casiana Muñoz-Tuñón

Instituto de Astrofísica de Canarias (IAC)

Presentation:

FUERTEVENTURA AS A STARLIGHT RESERVE. AN INTEGRATED VIEW

Tony Gallardo C.

Environmental Manager, Fuerteventura Island Government.

11.45 h. **Coffee Break**



Nature and Lightscapes

12.00 h **2nd Session**

Chairperson: Peter Bridgewater

Chairman of the Joint Nature Conservation Committee (UK)

LANDSCAPES, SKYSCAPES AND THE EUROPEAN LANDSCAPE CONVENTION

Maguelonne Déjeant-Pons

Head of the Spatial Planning and Landscape Division
Council of Europe

THE QUALITY OF NIGHT SKY. SPECIES, HABITATS AND PROTECTED AREAS.

Juan José Negro

Vice-director of the Doñana Biological Station
CSIC (Higher Council for Scientific Research - Spain)

PROTECTED AREAS, DARK SKY PRESERVES AND STARLIGHT RESERVES.

David Welch

Chair, Dark Skies Advisory Group,
IUCN Task Force on Cities and Protected Areas

NATURAL LIGHTSCAPES: EFFORTS BY THE US NATIONAL PARK SERVICE AND IDA TO DOCUMENT AND PROTECT DARK SKIES.

Chad Moore

NPS Night Sky Team. USA.

THE LIGHT POLLUTION LAWS OF PLANET EARTH

Martin Morgan-Taylor

School of Law. DeMonfort University, Leicester. UK.

13.15 h. **Lunch**

Cultural and Social Dimension and Starlight Destinations

15.15 h **3rd Session**

Chairperson: Michael Iwand

Dr. rer. pol. Dr. phil. Tourism Research and Development

Introductory Proposal: Eduardo Fayos Solá

A standard for Starlight destinations (UN-WTO)

HERITAGE SITES OF ASTRONOMY IN THE CONTEXT OF THE UNESCO WORLD HERITAGE CONVENTION

Clive L.N. Ruggles

University of Leicester, School of Archaeological Studies (UK).

Chair of IAU Division XII Commission 41 and WG: Astronomy
and World Heritage.

THE SKY OF THE “MAJOS” AND THE “MAGOS”. ASTRONOMY IN THE CANARY ISLANDS’ CULTURAL TRADITION.

Juan Antonio Belmonte

President of the European Society for Astronomy in Culture
(SEAC). Instituto de Astrofísica de Canarias (IAC).

WG: Astronomy and World Heritage (UNESCO-WHC).

THE ROLE OF ASTRONOMY IN SOCIETY AND CULTURE IAU - UNESCO SYMPOSIUM 260

David Valls-Gabaud

Deputy Director at the Observatoire de Paris (France)

STARLIGHT DESTINATIONS - DESERT AND STARS

Lamine Kadi

Rector. University of Mostaganem (Algeria)

STARLIGHT AND SKYSCAPES DESTINATIONS UNDER INTERNATIONAL LAW

Phil Cameron

Space Travel Law Association -STELA (USA)

STARRY SKIES CAMPAIGN AND EU DIRECTIVE

Friedel Pas

European Liaison Officer

International Dark-Sky Association (Belgium)

17.00 h. **Coffee Break**

Intelligent Lighting, Reserves and Urban Planning Sustainability Issues

17.15 h **4th Session**

Chairperson: Natarajan Ishwaran

Director of the Division of Ecological and Earth Sciences, UNESCO.
Secretary of the MaB Programme.

INTELLIGENT LIGHTING CHALLENGES

Nigel Pollard

Director of CIE Division 5 (Exterior Lighting).
International Commission on Illumination (CIE).

LIGHT POLLUTION: THE GLOBAL VIEW

Fabio Falchi

ISTIL (Light Pollution Science and Technology Institute)
President of Cielo Buio (Italy).

DARK SKY AWARENESS

Fernando Jáuregui

Planetarium of Pamplona
DSA coordinator. Spanish node of IYA2009.

PROTECTING THE CANARY ISLANDS' SKIES: A PRACTICAL EXPERIENCE

Federico de la Paz Gómez

OTPC (Sky Protection Unit - IAC).

HOW IDENTIFY DARK SKY RESERVES? & MODERN STREET LIGHTING AND LIGHT POLLUTION

Andreas Hänel

Dark Sky Germany
Museum am Schölerberg (Germany).

SLOVENIA

THE FIRST STATE WITH EFFICIENT LIGHT POLLUTION LAW

Neja Penca

Dark Sky Slovenia

19.00 h. **Break**

Closing Session

19.15 h Closing Session

Natalia Évora Soto

Councillor of Environment and Public Works.
Fuerteventura Island Government.

Natarajan Ishwaran

Director of the Division of Ecological and Earth Sciences, UNESCO.
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WG: Astronomy and World Heritage (UNESCO-WHC).

Tony Gallardo C.

Environmental Manager, Fuerteventura Island Government.

Cipriano Marín

Coordinator of the Starlight Initiative.

21.15 h. Closing Dinner



March 11th, 2009

Expert Meeting
Starlight Reserves

Rio Calma Hotel. R2.

9.30 h Start of the working sessions

First meeting of the Starlight Reserves Working Group. The overall aim is to discuss the problems of identification of specific categories of natural sites, skylscapes, cultural nightscapes, and exceptional sites for astronomical observation, as "Starlight Reserves" for their possible nominations on the World Heritage List.



Municipalities of the Island of Fuerteventura which have already adopted the Declaration in Defense of the Night Sky and the Right to Starlight.



Astronomy and World Heritage: across time and continents is a cycle of the UNESCO-World Heritage activities which will be launched within the framework of the World Heritage Initiative on Astronomical Heritage during the celebration of the International Year of Astronomy, IYA2009.

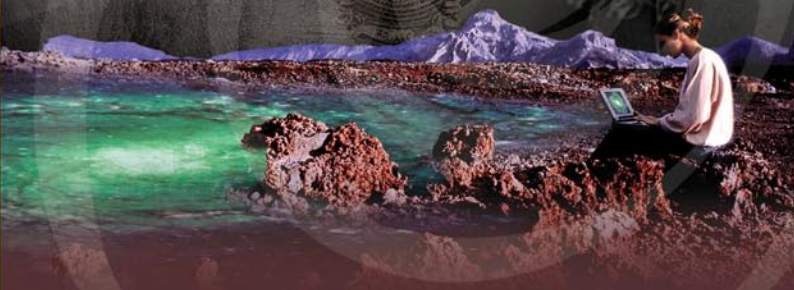
The International Workshop and expert meeting “Starlight Reserves and World Heritage: Scientific, Cultural and Environment Values” will be hosted by the Fuerteventura Island Council (Cabildo de Fuerteventura, Spain), and is organized in cooperation with the UNESCO-World Heritage Centre, IAC (Instituto de Astrofísica de Canarias), and IAU (International Astronomical Union).

2009

International Year of Astronomy – IYA 2009

150th anniversary of the publication of
“On the Origin of Species”
and the 200th anniversary of Darwin’s birth

www.starlight2009.net



ASTRONOMY AND WORLD HERITAGE: ACROSS TIME AND CONTINENTS

WITH THE SUPPORT OF



CABILDO DE FUERTEVENTURA



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ASTRONOMY AND WORLD HERITAGE INITIATIVE



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de Canarias