

Climate change in the Pyrenees: vulnerability, impacts, mitigation and adaptation FLUXPYR and OPCC Meeting, Barcelona – 5 to 8 June 2012

FINAL PROGRAMME

Tuesday 5 June 2012 (Venue: CSIC Residence)

Internal FLUXPYR and OPCC meeting - Open to FLUXPYR and OPCC members only

Venue: CSIC residence, C/ Hospital 64, Barcelona (see map below)

09:00 – 09:50 Registration and welcome coffee-snack

09:50 – 10:00 Welcome - Maria-Teresa Sebastià, UdL-CTFC (*Amphitheater*)

Parallel scientific and administrative sessions

10:00 – 12:30 FLUXPYR administrators' meeting. Chair: Marc Carrera, CTFC (*Seminar 2*)

10:00 – 11:00 FLUXPYR working groups parallel meetings. Chairs: FLUXPYR WGs leaders or representatives - WG3a (Maria Teresa Sebastià, CTFC), WG3b (Éric Ceschia, CESBIO), WG4a (Josep Anton Morguí, IC3), WG4b (Agustín Lobo, ICTJA-CSIC), WG5 (Jean-François Dejoux, CESBIO). (*Amphitheater, Annex, Seminar 1, Seminar 2*)

11:00 – 12:30 FLUXPYR plenary session. Chair: Maria Teresa Sebastià (*Amphitheater*)

12:30 – 12:35 FLUXPYR group photo (please join us all)

12:35 – 13:30 FLUXPYR management committee and advisory board meeting. Chair: Maria Teresa Sebastià (*MC and AB members only*) (*Seminar 1*)

13:00 – 14:00 Lunch – On-site catering by Impuls Valles*

14:00 – 14:30 Welcome coffee OPCC and FLUXPYR members

14:30 – 16:45 OPCC Scientific Committee session: State of progress of actions. Chair: Bernard Seguin, Serge Rambal, Anne Sota (*Amphitheater*)

16:45 – 17:00 Coffee break

17:00 – 18:15 OPCC working groups parallel meetings. Chairs: OPCC working group leaders. (*Amphitheater, Annex, Seminar1, Seminar2*)

18:15 – 19:00 Conclusions of working groups (*Amphitheater*)

19:00 – 19:05 OPCC group photo (please join us all)

20:30 Social dinner in Barcelona– La Txapela (see map below; participants to cover their cost)

Wednesday 6 June 2012 (Venue: La Pedrera; room: Auditori)

Round tables: Climate change and ecosystem services in mountain areas

(Open to the general public, subject to prior registration, with translation Spanish-French)

Venue: La Pedrera (CatalunyaCaixa), room: Auditori, Passeig de Gràcia 92, 08008 Barcelona, Spain. Tel: (0034) 934 84 59 79

08:00 – 08:30 Reception – Registration

*Whole day: access to FLUXPYR and OPCC posters (posters will be installed in the morning).

8:30 – 9:30 Lecture: La Communauté de Travail des Pyrénées au service du développement durable du territoire/La Comunidad de Trabajo de los Pirineos al servicio del desarrollo sostenible del territorio, Xavier Bérnard (CTP)

9:30 – 10:00 Inauguration by authorities

10:05 Introduction to the round tables, Maria Teresa Sebastià (UdL-CTFC)

10:05 – 11:45 Round table 1: Provisioning of ecosystem services under climate change in mountains: dialogue science - society

Participants: Glòria Domínguez (CTFC), Miquel Rafa (CX), Salvador Samitier (OCCC), Anne Sota (OPCC)

Chair: Fabrice Gouriveau (CTFC)

11:45 – 12:15 Coffee break

12:15 – 14:00 Round table 2: Mountains and climate change mitigation: managing ecosystems for carbon storage and conservation

Participants: Éric Ceschia (CESBIO), Werner Eugster (ETH, Zurich), Josep Anton Morguí (IC3), Bernard Seguin (INRA)

Chair: Núria Altimir (CTFC)

14:00 – 15:00 Lunch – On-site catering by Impuls Valles*

15:00 – 16:45 Round table 3: Mountains and water provisioning under climate change - impacts on winter tourism

Participants: Gabriel Borràs (OCCC), Simon Gascoin (CESBIO), Frédéric Gottardi (EDF), Jean-Michel Soubeyroux (Météo France), Enrique Velasco (ACA)

Chair: Agustín Lobo (ICTJA-CSIC)



16: 45 – 17:15 Coffee break

17:15 – 19:30 Round table 4: Vulnerability and natural hazards. What adaptation for mountain areas?

Participants: Ramon Copons (CENMA), Jean-François Dejoux (CESBIO), Julien Lavaud (ARPE Midi-Pyrénées), Marta G. Rivera (CREDA-UPC-IRTA)

Chair: Salvador Pueyo (IC3)

19:30 Conclusions and closure of Day 2 - Maria Teresa Sebastià

Thursday 7 June 2012 (Venue: La Pedrera; room: Auditori)

(Open to interested experts and the general public, subject to prior registration, in English)

08:30 – 09:00 Reception/Registration

*Whole meeting: access to posters. Posters will be presented by authors in front of the poster on a guided tour

Session 1: Fluxes of energy, water and carbon in agricultural and pastoral ecosystems in the Pyrenees, I. Chair: Núria Altimir (CTFC)

09:00 – 09:30 The FLUXPYR project: a network to study climate change in agricultural and pastoral systems in the Pyrenees, M. Teresa Sebastià and the FLUXPYR network

09:30 – 10:00 Light Aerial Remote Sensing for carbon fluxes: experiences in the FLUXPYR project, Agustin Lobo et al. (ICTJA-CSIC, IG et al.)

10:00 – 10:30 Presentation of the FLUXPYR experimental network achievements and first results, Tiphaine Tallec et al. (CESBIO, CTFC, LA, UPC, GEODE)

10:30 – 11:00 Biodiversity and climate change mitigation in high altitude grasslands in the Pyrenees, M. Teresa Sebastià et al. (CTFC, UdL, UPNA, UAB, UPC, UCD)

11:00 – 11:30 Coffee break

Session 1: Fluxes of energy, water and carbon in agricultural and pastoral ecosystems in the Pyrenees, II – Continuation. Chair: Fabrice Gouriveau (CTFC)

11:30 – 12:00 Climate change increases productivity but decreases quality and biodiversity in a short term experiment in grassland in the Pyrenees, Haifa Debouk & M. Teresa Sebastià (UdL-CTFC)

12:00 – 12:30 Land cover classifications over all Pyrenees in the last 10 years with LANDSAT and MODIS archives, Jean-François Dejoux et al. (CESBIO, El Purpan)

12:30 – 13:00 Integrated background CO₂ measurements in the Pyrenees, Roger Curcoll et al. (IC3)

13:00 – 15:00 Lunch – On-site catering by Impuls Valles*

Session 1: Fluxes of energy, water and carbon in agricultural and pastoral ecosystems in the Pyrenees, III – Continuation. Chair: Frédérique Saïd (LA)

15:00 – 15:30 Observations and numerical models to analyze the role of the residual layer during the morning transition, David Pino et al. (UPC, LA, MAQ et al.)

15:30 – 16:00 Characterization of annual dynamics in mountain pastures, Núria Altimir (CTFC)

**16:00 – 16:30 Climate change perception and mental perception by French Pyrenean farmers,
Élodie Fayel et al. (ENFA)**

**16:30 – 17:00 Poster session: Posters will be presented by authors in front of the poster on a
guided tour. Chair: M. Teresa Sebastià**

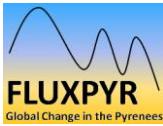
17:00 – 17:30 Coffee break

*Session 2: Changes in climate and water dynamics in the Pyrenees, I. Chair: Jordi Cunillera
(METEOCAT)*

17:30 – 18:00 Validation of the innovation model SAFRAN-CROCUS: comparison with the
measurements of satellite MODIS, Simon Gascoin (CESBIO)

18:00 Closure of Day 3 - Maria-Teresa Sebastià

*21:00 Social dinner in Barcelona – La Llavor dels Orígens (see map below; participants to cover their
dinner)*



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Pesta, Alimentació i Medi Natural

Friday 8 June 2012 (Venue: La Pedrera; room: Auditori)

(Open to interested experts and the general public, subject to prior registration, in English)

08:30 – 09:00 Reception/Registration.

Session 1: Fluxes of energy, water and carbon in agricultural and pastoral ecosystems in the Pyrenees, IV – Continuation. Chair: David Pino (UPC)

09:00 – 09:30 2010-2012: 22 months of flux measurements on grassland, at the Pyrenees foothills (600 m), Frédérique Saïd (LA)

09:30 – 10:00 Testing fine-tuned biodiversity-function questions: the OPS FLUXPYR-associated site and the COST 852 experiment at Gòsol (Eastern Pyrenees), Rosa Llurba et al. (CTFC, UdL, UAB)

Session 2: Changes in climate and water dynamics in the Pyrenees, II – Continuation. Chair: Jordi Cunillera (METEOCAT)

10:00 – 10:30 Changes in climate and water dynamics in the Pyrenees, Toni Barrera-Escoda (METEOCAT)

10:30 - 11:00 Brief assessment of climate change in Andorra, Jordi Mazón (UPC)

11:00 – 11:30 Coffee break

11:30 – 12:00 Poster session: Posters will be presented by authors in front of the poster on a guided tour. Chair: Rosa Llurba (UdL-CTFC)

Session 3: Natural risks in the Pyrenees under climate change. Chair: Carme Llasat (UB)

12:00 – 12:30 Trends in both adverse synoptic weather patterns and large wildland fires in NW Spain, Domingo Molina (UdL)

12:30 – 13:00 Impact of climate change in the mean and extreme precipitation regimes over Spain, Carme Llasat (UB)

13:00 Meeting closure - Maria-Teresa Sebastià

13:00 – 15:00 Lunch – On-site catering by Impuls Valles*

COMPLEMENTARY INFORMATION

FLUXPYR (Interreg IVA-Poctefa Project, 2009-2012): European cross-border network for the determination and management of water, carbon and energy fluxes and stocks in agricultural and grassland ecosystems of the Pyrenees, in the context of climate and land-use change. FLUXPYR is cofinanced by the European Union - FEDER, Generalitat de Catalunya and Conseil Régional Midi-Pyrénées.

OPCC: Observatoire Pyrénéen du Changement Climatique / Observatorio Pirenaico del Cambio Climático – Led by the CTP (Communauté de Travail des Pyrénées / Comunidad de Trabajo de los Pirineos).

Contacts:

Maria Teresa Sebastià (UdL-CTFC, FLUXPYR coordinator)

Fabrice Gouriveau (CTFC, FLUXPYR manager): fabrice.gouriveau@ctfc.es ; Tel. (0034) 644 019 750

Anne Sota (OPCC): a.sota@ctp.org; Tel. (0034) 974 36 10 19

Main objectives of the meeting:

This meeting will bring together several European multi-disciplinary experts in the fields of meteorology, agronomy, ecology, physics, botany, remote sensing, education, policy, rural development, nature conservation, etc., and will foster the exchange of knowledge, expertise and fresh ideas amongst the participants.

It will be the opportunity to present FLUXPYR's achievements and prospects, to discuss the state of the Pyrenean Observatory for Climate Change (OPCC) and to work on its development, and to discuss several issues related to climate and land use change in mountain areas, with a special focus on the Pyrenees and their area of influence.

Among others, we will discuss topics related to the provision of ecosystem goods and services by mountains in the context of climate change, to the management of mountain areas for climate change mitigation and adaptation (e.g. carbon sequestration and biodiversity conservation), and to the dialogue science – society and the link between research and policy.

* Catering:

Impuls Valles (www.impulsvalles.org) is a Catalan non-profit association which proposes catering services, promoting the use of locally and sustainably grown products, and fostering the professional insertion of people in precarious situations.

Map of Barcelona

VENUE: 5 June 2012: CSIC residence. C/ Hospital 64 - 08001 Barcelona - Tel. (0034) 93 443 27 59 -
Fax (0034) 934 41 78 87
info@residencia-investigadors.es; <http://www.residencia-investigadors.es>

Restaurant: 5 June 2012, 20h30: La Txapela, Passeig de Gràcia 58 (see map below)



VENUE: 6, 7, 8 June 2012: La Pedrera (CatalunyaCaixa), Passeig de Gràcia 92, 08008 Barcelona, Spain. Tel. (0034) 934 84 59 79 (see map below)

Restaurant: 7 June 2012, 21 h: La llavor dels Orígens, C/ Enric Granados 9, Barcelona (see map below)

