

Newton Fund Workshop on Plant dynamics and Climate Change in the Andes

15-18th August, Mendoza, Argentina

The aim of the workshop is to bring together senior and early career researchers in the fields of plant sciences, conservation, climate change and modelling from Latin America and the UK to:

- Take stock of current studies and knowledge gaps on climate change in the tropical and extratropical Andes.
- Collaboratively develop an international and interdisciplinary programme of work/funding proposals to assess the impact of climate change along the Andes.
- Develop plans and resources to summarise and communicate the current state of knowledge to conservation agencies, decision-makers, the general public and scientists.

The topics (themes) to be addressed are:

1. ***Monitoring biodiversity and forest dynamics*** (paleo and current ecology, dendrochronology, vegetation plots, genetic biomonitoring, growth monitoring)
2. ***Climate change impacts on ecosystem and ecosystem services*** (hydrology, carbon sequestration, pollination, livelihoods, agriculture, food security, timber security)
3. ***Climate models and expected changes*** (meteorology, extremes climatic events, paleo and current climatology)
4. ***Climate change driven shifts in species distributions*** (Species distribution models, resilience and adaptive potential, dispersal limitations)

The workshop structure is:

Day 1: Introductions and participant presentations in plenary to set the scene and share background knowledge

Day 2: Summary of Day 1, sub-group discussions/presentations focusing on each theme, assessing gaps, identifying priorities and opportunities, followed by plenary discussion

Day 3: Morning – development of bullet point summaries for each area, feedback from other groups. Afternoon – Synthesis in plenary, agreed recommendations and summary

Day 4: Morning – translation of meeting recommendations and summary into formal documents, and plan for post-workshop write up

Organizers:



Royal
Botanic Garden
Edinburgh



**RESEARCHER
LINKS**

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For further information please visit www.newtonfund.ac.uk.

Programme

Tuesday, August 14th

Arrive in Mendoza. Accommodation and transport

Attendees should arrive at Mendoza airport. A remise service airport-hotel is arranged for participants. Please look for the sign: Newton Fund Workshop. Accommodation for participants will be in **Hotel Raíces Aconcagua**, located in the city centre of Mendoza.

Hotel Raíces Aconcagua

San Lorenzo 545, Mendoza

+54 (0261) 520-0500

<http://www.raicesaconcagua.com/>

19:00 Welcome reception (18:45 meet in the hotel lobby)

Zampa restaurant

Avenida Bartolomé Mitre 794, Mendoza

<https://website-713079049913064925322-restaurant.negocio.site/>

8:30 Shuttle service from the hotel to CCT-CONICET

Morning session (9:00-12:30) Room Latinoamericana (CCT-CONICET)

9:00 Introduction and welcome. Opening by authorities from CONICET – British Council

9:15 Introductory lectures. Main outline of the workshop, aims and expected outcomes (Pete Hollingsworth UK coordinator), Current challenges for studies assessing climate change impacts on plant dynamics in the Andes (Dr. Ricardo Villalba Argentina coordinator).

10:00 Participant's introductions. Brief introduction of all participants

10:15 *Coffee Break*

10:30-12:30 Major themes of the workshop, and participant presentations.

Monitoring biodiversity and forest dynamics

Pete Hollingsworth, Blanca León, Martín Gardner, Kenneth R. Young, Rocío Urrutia Jalabert, Valeria Aschero, Cecilia Blundo, Agustina Malizia, Zoe Goodwin, Julieta Carilla, Edilson Jimmy Requena-Rojas, Karina Speziale, Ana Srur

12:30 *Lunch*

14:00-15:00 Major themes of the workshop, and participant presentations.

Climate change in the Andes and its effects on ecosystem and ecosystem services

Viachaslau Filimonau, Esteban Jobbágy, Martín Leiva Molina, Diego Alarcón, Mauricio Diazgranados Cadelo, Romina Ruscica, Selene Baez, Eugenia Ferrero

Climate models for the Andes and expected changes

Andrea Carril, Lluís Fita Borrel, Pablo Zaninelli, Claudio Menedez

15:45 *Coffee break*

16:00-16:40 Major themes of the workshop, and participant presentations.

Climate change driven shifts in distribution change

Pedro Flombaum, Oscar A. Pérez-Escobar, Francesca Smith, Antje Ahrends, Carolina Tovar, Ricardo Villalba, Paul Henry Gonzáles Arce, Álvaro Gutiérrez, Aníbal Pauchard

17:00-18:00 Session Close

18:00 Shuttle service from CCT-CONICET to the hotel

8:30 Shuttle service from the hotel to CCT-CONICET

Morning session (9:00-12:30) Room Latinoamericana (CCT-CONICET)

9:00-10:30 The workshop will be divided into four groups. Groups will be based on their research interest and expertise. It is expected two moderators/leaders per work group.

Groups will work on the following subjects:

- Monitoring biodiversity and forest dynamics
- Climate change impacts on ecosystem and ecosystem services
- Climate models and expected changes
- Climate change driven shifts in species distributions

The first sessions will focus on addressing the current knowledge on the subject, identifying the gaps (regional, thematic) and current challenges for conducting the studies (e.g. lack of climatic data, lack of flora surveys, etc)

10:30 Coffee break

11:00-12:30 Work group session. Continue to work in the four groups.

12:30 Lunch

Afternoon session (14:30-18:00)

14:30 Work group session. Continue to work in the four groups.

16:30 Coffee break

17:00 Round up session (plenary). First synthesis of the four subjects discussed and feedback from participants.

18:00 Shuttle service from CCT-CONICET to the hotel

8:30 Shuttle service from the hotel to CCT-CONICET

Morning session (9:00-12:30)

9:00 Work group session (continue). At each group, participants are encourage to start production of a summary of key findings/recommendations/conclusions

10:30 Coffee break

11:00 Work group session Participants move between groups, to provide inter-disciplinary input to summaries from preceding session

12:30 Lunch

Afternoon session (14:30-18:00)

14:30 Plenary Session. Synthesis of the four subjects presented, discussed and feedback from participants.

14:30 Group 1

15:15 Group 2

16:00 Coffee break

16:30 Group 3

17:15 Group 4

18:00 Shuttle service from CCT-CONICET to the hotel

20:30 Farewell Dinner for all participants

Fuente y Fonda Restaurant

Address Montevideo 675. Mendoza

<https://www.facebook.com/FuenteyFonda>

Saturday, August 18th

8:30 Shuttle service from the hotel to CCT-CONICET

Morning session (9:00-12:30) Room Latinoamericana (CCT-CONICET)

9:00 Work group session (continue). Formalisation of the findings into workshop report and plan for post-workshop publication outputs

10:30 Coffee break

11:00 General Discussion

12:30 Closing the event

12:40 Lunch

General information

All lunches will be in IANIGLA or Club Regatas in the Parque General San Martín. The transportation from Hotel Aconcagua to the workshop at IANIGLA will be provided for all participants.