

## UCAM Field visit June 2025

UCAM Staffing: EB - Eustace Barnes, JF – John Forrest, HL – Hugo Lepage, DR – Daria Radu, DA – Darina Andriychenko, ML - Miguel Lezama, JPO - Julia Porturas.

Fieldwork plans for each of the visiting research staff.

**Green = Biodiversity/bioacoustics**

**Brown = Soils**

**Orange = Dry Forest**

**Purple = Water, sediment & soil samples collection**

**Blue = Glaciers (remote sensing)**

**NB: To visit glacial sites acclimatisation is required.**

**Schedule.** (Arrive/fly to Cusco together) (Flight and transport availability plus research objectives make this the most practical)

**7<sup>th</sup> June:** Arrive Lima - EB, HL, JF, DR, DA, JPO.

**8<sup>th</sup> June:** Fly Cusco. Acclimatization. EB, HL, JF, DR, DA, JPO.

**9<sup>th</sup> June.** Acclimatization & **Salkantay visit preparation.** HL, JF, DA, DR, JPO.  
Acclimatization, **Biodiversity & Dry forest taxa research planning.** EB, ML.

**10<sup>th</sup> June.** Acclimatization & **Salkantay visit preparation.** HL, JF, DA, DR, JPO,  
Acclimatization, **Biodiversity & Dry forest taxa research planning.** EB, ML.

**Group 1: Biodiversity.** EB, ML & UNMSM participants (Grace Servat Valenzuela & Matias Laynes Espino)

**Objective:** to survey biodiversity is to document and assess the unique species composition and ecological dynamics within isolated and understudied ecosystems. Due to their complex topography and climatic variation, inter-Andean valleys often harbour high levels of endemism and distinct biotic communities. Conducting field surveys in these areas helps identify conservation priorities, detect potential new or range-restricted species, and understand biogeographic patterns critical for informing sustainable land management and biodiversity protection strategies.

**11<sup>th</sup> June.** **Biodiversity, Dry forest taxa.** En route Cusco to Huanta. EB, ML + UNMSM.

**12<sup>th</sup> June.** **Biodiversity, Dry forest taxa.** En route Cusco to Huanta. EB, ML + UNMSM.

**13<sup>th</sup> June.** **Biodiversity, Dry forest taxa.** En route Cusco to Huanta. EB, ML + UNMSM.

**14<sup>th</sup> June.** Biodiversity, Dry forest taxa. En route Cusco to Huanta. EB, ML + UNMSM.

**15<sup>th</sup> June.** Biodiversity, Dry forest taxa. En route Cusco to Huanta. EB, ML + UNMSM.

**16<sup>th</sup> June.** Biodiversity, Dry forest taxa. Arrive Huanta. EB, ML + UNMSM.

Objective: to provide UNAH students and staff hands-on training in biodiversity survey techniques within a unique and often underrepresented ecosystem. Dry forests are characterized by distinct seasonal dynamics and host a specialized range of flora and fauna adapted to arid conditions. Through field-based learning, participants gain practical experience in species identification, ecological monitoring, and data collection methods, while also developing a deeper understanding of the conservation value and ecological challenges facing these threatened habitats.

**17<sup>th</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

**18<sup>th</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

**19<sup>th</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

**20<sup>th</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

**21<sup>st</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

**22<sup>nd</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

**23<sup>rd</sup> June.** Biodiversity, Dry valley taxa. Huanta area. EB, ML + UNMSM + UNAH staff & students.

Huanta area: Luricocha, Marcas, upper Cangari, La Vega, etc.

Seminars were made on several occasions on several days both in the field and in the late afternoons in the laboratory. An evening field seminar was also given one day.

**24<sup>th</sup> June.** Fly Lima. EB. (ML & vehicle 1 returns to Cusco).

**25<sup>th</sup> June.** EB flight to UK.

**Group 2 : Glaciers.** HL, DR, DA, JF & JPO.

Objective: to improve our understanding of deglaciation in the Peruvian Andes by collecting a detailed current dataset of glacier extent from two sites one of which is the Salkantay glacier. (See the separate detailed document outlining the objectives).

**11<sup>th</sup> June.** Drive Mollepata. HL, DR, DA, JF y JPO.

**12<sup>th</sup> June.** Salkantay cordillera visit. HL, DR, DA, JF y JPO.

**13<sup>th</sup> June.** Salkantay cordillera visit. HL, DR, DA, JF y JPO.

**14<sup>th</sup> June.** Drive Chincheros. HL, DR, DA, JF y JPO.

**15<sup>th</sup> June.** Arrive Huanta. HL, DR, DA, JF y JPO.

**16<sup>th</sup> June.** UNAH staff & student meetings. Meeting INAGEM (virtual).  
Presentations. Media interviews. Field equipment maintenance & calibration.

JF, HL, DR, DA y JPO.

**17<sup>th</sup> June.** Drive Huancayo. HL, DR, DA, JF y JPO plus UNAH staff & students.

**18<sup>th</sup> June.** Huaytaypallana cordillera visit1. HL, DR, DA, JF y JPO plus UNAH staff & students.

**19<sup>th</sup> June.** Huaytaypallana cordillera visit2. HL, DR, DA, JF y JPO plus UNAH staff & students.

**20<sup>th</sup> June.** Drive Huanta. HL, DR, JF y JPO plus UNAH staff & students. DA to Lima.

Objective: to improve our understanding of deglaciation in the Peruvian Andes by collecting a detailed current dataset of glacier extent from two sites one of which is the Huaytaypallana glacier. (See the separate detailed document outlining the objectives).

**21<sup>st</sup> June.** Water workshop. HL, JF.

Objective: to provide training to UNAH staff & students in extracting data from Excel databases and using statistical techniques to analyse the data.

**22<sup>nd</sup> June.** Soils analysis workshop I in lab. HL, DR, JF + UNAH staff & students.

**23<sup>rd</sup> June.** Soils analysis workshop II in lab. HL, DR, JF + UNAH staff & students.

Objective: to process and analyse the soil samples (40+) collected from the Huanta area and in doing so to train UNAH staff & students in relevant techniques.

**24<sup>th</sup> June.** Flights to Lima. HL, DR.

**25<sup>th</sup> June.** Flights to UK.

**Group 3: JF + UNAH staff & students. Water, Sediments & Soils site visits.**

Objective: to collect water quality related data and samples from across the water study site network plus sediment samples where appropriate and soil samples to complement those already collected. To train UNAH staff and students in field techniques accordingly.

**24<sup>th</sup> June.** Water and sediment sample sites (RC01). JF

**25<sup>th</sup> June.** Water and sediment sample sites (Q1.1). JF.

**26<sup>th</sup> June** Water sample sites (Q1.2N.U1). JF.

**27<sup>th</sup> June** Water and sediment sample sites (Q3.1 & RC02). JF.

**28<sup>th</sup> June** Soils analysis workshop III in lab. JF + UNAH staff & students.

Objective: see above.

**29<sup>th</sup> June** Water sample & soil sites (Q3.2 & Q3.3M). JF.

**30<sup>th</sup> June** Water sample & soil sites (Q1.3N & Q1.3S.L). JF.

**1<sup>st</sup> July** Water and sediment sample sites (Q2.1U & Q2.2L1). JF.

**2<sup>nd</sup> July** Water sample & soil sites (Q2.3L). JF.

**3<sup>rd</sup> July** Water sample sites (MAN02+). JF.

**4<sup>th</sup> July** **Workshop (Discord & Water data analysis).** Lab. preparation of water samples. Equipment maintenance & storage. Stock check. JF.

**Workshop objectives:** to inform UNAH staff of the opportunities offered by the Discord platform, including a practical demonstration. To undertake a practical workshop in which UNAH staff undertake a basic analysis of water quality data from the Huanta area (in groups) to begin to determine the significance of the data and how the UNAH might wish to make use of it in future.

**5<sup>th</sup> July** Fly Lima. SGS lab. water samples drop off. JF y JPO.