

UNAH field visit June 2023.

UCAM team: EB – Eustace Barnes. JF – John Forrest. HL – Hugo Lepage. JP – Julia Porturas. ML – Miguel Lezama.

FIELD VISIT OBJECTIVES / OBJETIVOS DE LA VISITA DE CAMPO.

1 – Biodiversity (EB) – collecting samples and data from indicated sites.

Biodiversity fieldwork. Data and sample collection at the sites specified, as part of the program to generate a biodiversity database for the región. Lepidoptera and avifaunal surveys at the sites given as described on the project website. Vegetation assemblages and temporal vegetation dynamics. He may be accompanied by Hugo Lepage on many of the days listed below.

1 – Biodiversidad (EB) – recolección de muestras y datos de los sitios indicados.

Trabajo de campo sobre biodiversidad. Recolección de datos y muestras en los sitios especificados, como parte del programa para generar una base de datos de biodiversidad para la región. Estudios de lepidópteros y avifauna en los sitios indicados como se describe en el sitio web del proyecto. Conjuntos de vegetación y dinámica temporal de vegetación. Puede estar acompañado por Hugo Lepage en muchos de los días que se enumeran a continuación.

2 - Water/sediments (JF) – John Forrest will be collecting water and possibly sediment samples from indicated sites. He may be accompanied and assisted by Hugo Lepage, Peter Newton or Eustace Barnes.

Water and sediments fieldwork. Water samples and water quality data collected across the sample site network . This is designed to ensure the production of a data base is achieved.

2 - Agua/sedimentos (JF) – John Forrest recolectará muestras de agua y posiblemente sedimentos de los sitios indicados. Puede ser acompañado y asistido por Hugo Lepage, Peter Newton o Eustace Barnes.

Trabajo de campo de agua y sedimentos. Muestras de agua y datos de calidad del agua recopilados en toda la red de sitios de muestra. Esto está diseñado para garantizar que se logre la producción de una base de datos.

4 - Remote sensing (HL) – Hugo Lepage will be investigating vegetative associations, bofedales and satellite soil data. He will also be assisting the water/soils team or biodiversity team and accompanying them to do so.

Remote sensing. Bofedales, the soils associated with them and their importance for water quality, erosion prevention and carbon storage/capture. Characterisation of soils using satellite imagery. Vegetation assemblages and temporal vegetation dynamics.

4 - Teledetección (NS) – Hugo Lepage investigará asociaciones vegetativas, bofedales y datos satelitales del suelo. También ayudará al equipo de agua / suelos o al equipo de biodiversidad y los acompañará a hacerlo.

Teledetección. Bofedales, los suelos asociados a ellos y su importancia para la calidad del agua, la prevención de la erosión y el almacenamiento/captura de carbono. Caracterización de suelos mediante imágenes de satélite. Conjuntos de vegetación y dinámica temporal de vegetación.

SCHEDULE. 15TH – 28TH June 2023.

- DAY 01/15th** Flight Ayacucho. (JF, HL). Transfer Huanta. (EB, ML). Nt Huanta.
EB, ML to meet JF, HL in Ayacucho and drive to Huanta. Team arrive to Huanta.
- DAY 04/16th** (Bio fieldwork). Preparatory work. (EB, ML). Nt Huanta.
Calibrate and check equipment in the lab. This will take all day.
(Water/sediments). Preparatory work. (JF). Nt Huanta.
Calibrate equipment. This will take all day.
(Remote sensing – soils, bofedales, vegetation dynamics). (HL). Nt Huanta.
Check equipment. This will take all day.
- DAY 05/17th** (Bio & Remote sensing teams). Tactococha. (EB, ML). Nt San Miguel.
Introduction to ecosystems & ecotourism research. To collect data, develop ideas and talk about project design. The smaller UNAH bus is needed for this.
(Water/sediments team) RC01 (rio Cachi). (JF). Night Huanta.
JF to begin water/sediment samples collection at RC01. UNAH staff & students to accompany.
(Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).
- DAY 06/18th** (Bio & Remote sensing teams). Chiquintirca area. (EB, ML). Nt Chiquintirca.
Dawn until 11.00 am and from 15.00-19.00 at above sites. UNAH staff/student to accompany.
(Water/sediments fieldwork) Huanta: Q1.1 (Rio Opancay). (JF). Nt Huanta.
JF to collect water/sediment samples at Q1.1. UNAH staff & students to accompany.
(Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).
- DAY 07/19th** (Bio & Remote sensing teams). Chiquintirca area. (EB, ML). Nt Chiquintirca.
Dawn until 11.00 am and from 15.00-19.00 at above sites. UNAH staff/student to accompany.
(Water/sediments fieldwork) Huanta: Q2.1 (Rio Huanta). (JF). Nt Huanta.
JF to collect water/sediment samples at Q2.1. UNAH staff & students to accompany.
(Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).

- DAY 08/20th** (Bio & Remote sensing teams). Chiquintirca area. (EB, ML). Nt Chiquintirca.
Dawn until 11.00 am and from 15.00-19.00 at above sites. UNAH staff/student to accompany.
 (Water/sediments fieldwork) Huanta: Q1.3 (Rio Huamanguilla-Iguian) & RC02 (Rio Cachi). (JF). Nt Huanta.
JF to collect water/sediment samples at Q1.3 & RC02. UNAH staff & students to accompany.
 (Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).
- DAY 09/21th** (Bio & Remote sensing teams). Chiquintirca area. (EB, ML). Nt San Miguel.
Dawn until 11.00 am and from 15.00-19.00 at above sites. UNAH staff/student to accompany.
 (Water/sediments fieldwork) Huanta: Q1.2 (Rio Opanccay) & Q2.2 (Rio Huanta). (JF). Nt Huanta.
JF to collect water/sediment samples at Q1.2 & Q2.2. UNAH staff & students to accompany.
 (Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).
- DAY 10/22nd** (Bio & Remote sensing teams). San Miguel area. (EB, ML). Nt Huanta.
Dawn until 11.00 am and from 15.00-19.00 at above sites. UNAH staff/student to accompany.
 (Water/sediments fieldwork) Huanta: Q3.2. (Rio Huamanguilla-Iguian). (JF). Nt Huanta. JP arrives.
JF to collect water/sediment samples at Q3.2. UNAH staff & students to accompany.
 (Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).
- DAY 11/23rd** (Bio fieldwork). Huanta: laboratory. (EB, ML). Nt Huanta.
 (As for Remote sensing team)
 (Water/sediments) Huanta: Q3.3 (Rio Huamanguilla-Iguian). (JF, JP). Nt Huanta.
JF to collect water/sediment samples at Q3.3. UNAH staff & students to accompany.
 (Remote sensing – soils, bofedales, vegetation dynamics). Huanta: laboratory. (HL). Nt Huanta. *Introduction to satellite image analysis workshop, Part 1.*
- DAY 12/24th** (Bio fieldwork). Huanta area: Q1.3. (EB, ML). Nt Huanta.
From predawn at above site. UNAH staff/student to accompany.
 (Water/sediments) Huanta: Q1.3 (Rio Huanta). (JF, JP). Nt Huanta.
JF to collect water/sediment samples at Q1.3. UNAH staff & students to accompany.
 (Remote sensing – soils, bofedales, vegetation dynamics) (HL). (As for Bio team).

- DAY 13/25th** (Bio fieldwork). Huanta area: Q2.3 & Q2.4. (EB, ML). Nt Huanta.
From predawn at above site. UNAH staff/student to accompany.
 (Water/sediments) Huanta: Q1.3 (Rio Huanta). (JF). Nt Huanta.
JF to collect water/sediment samples at Q1.3. UNAH staff & students to accompany.
 (Remote sensing – soils, bofedales, vegetation dynamics) (HL). *(As for Bio team).*
- DAY 14/26th** (Bio fieldwork). Huanta: Ecotourism/biodiversity related activities. Meetings.
 (EB, ML). Nt Huanta.
 (Water/sediments) Data collation, equipment storage, etc. Meetings. (JF, JP). Nt Huanta.
 (Remote sensing – soils, bofedales, vegetation dynamics). Huanta: laboratory. (HL).
Nt Huanta. Introduction to satellite image analysis workshop, Part 2.
Visit to the Huaper with UNAH staff/students. (HL, JF).
- DAY 15/27th** (Bio fieldwork). Huanta: Ecotourism/biodiversity related activities. Meetings.
 (EB, ML). Nt Huanta.
 (Water/sediments) Sampling preparation, data collation, equipment stock check, etc. Meetings. (JF, JP). Nt Huanta.
 HL – Ayacucho drop off for late pm flight to Lima.
- DAY 16/28th** Return to Lima. (EB, JF, JP). Water samples drop off in Lima.
 Return to Cusco (ML).