



Form IV

ANNEX of the  
Annual Report

## 2025 – Meeting Report

**IGCP Project number and Title:** IGCP-669 Identification of seismogenic faults in populated areas of Latin America and its incorporation into seismic hazard assessment

### 1. MEETING(S):

**Date:** 8-12 septembre 2026

**Place:** IKIAM university and Field work (Tena, Ecuador)

**Itinerary:** The field trip visited several places along the Napo River, in the surroundings of Tena village (Subandean ecuatorian zone).

### 2. SCOPE AND RESULTS OF MEETING:

#### Scope of Meeting (program or outline of geological study)

In the frame of the Training School in Dating Methods for Active Tectonics, participants focused on the practical aspects of two different techniques (OSL and Cosmogenic nuclides), applied to depositional and erosive surfaces (markers) as well as erratic blocks. It also included digitalization of outcrops. We visited a cultural site (Laguna Kaiman Island, on the Napo river) and a Geosite (Napo-Sumaco Geopark).

Previous to the two days field work, participants received three days of theoretical aspects with the participation of eighth international lecturers. See program attach for details on the different lessons and hand-on sessions. Three of the lessons were provided online and were recorded.

#### Achievements of Meeting

The meeting had an educational scope so we could train a total of 44 participants from Ecuador (mainly) but also from Venezuela, Perú and Colombia. As it can be seen in the participant list (attached), the gender balance was not reached but over the standards for earth science (17 women and 27 men). It was achieved among the instructors (4 women and 4 men). We covered a wide range of aspects of the specificities of the Quaternary dating methods applied to active tectonics. The lessons on geochronology were given by international specialists (Julien Carcaillet and Lea Pousse, Univ. Grenoble, France), Gloria López (SGE, Colombia), Angel Rodés (Univ. of Barcelona, Spain) and Oswaldo Guzman (Ikiam univ. Ecuador). The course also covered the

principles of Paleoseismology and Earthquake geology (María Ortuño, Univ. Barcelona, Spain) and a hands-on session on the impact of datings on the slip rates using fault2sha tools (Rodrigo León, Univ. Andes, Colombia). Moreover, a special session on Active tectonics of Ecuador was given by Alejandra Alvarado (EPN, Ecuador).

### Outcome of Meeting

As outcomes of the meeting, we produced a series of outreach videos available in the social media ([https://www.instagram.com/ollin\\_igcp669/](https://www.instagram.com/ollin_igcp669/)), which include 6 interviews to the instructors and participants. They are being published gradually. Also, the three online lessons are being edited for publication in our webpage (<https://www.ollinproyecto.com/>).

Signature of Project Leader and Date



Group photo during the cultural visit to Laguna Caiman (11/09/2025)



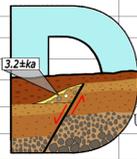
Group photo during the visit to the Geosite Napo-Sumaco (12/09/25)



Participants and instructors during the Olin annual meeting (Ikiam univ, Ecuador)



Photo during one of the Datol training school (Ikiam Univ, Ecuador)



**Dato1**  
 Dating Ollin Summer School  
 Universidad Regional Amazónica Ikiam  
 Ecuador - 08-12 de septiembre, 2025

**2025 Tena (Ecuador)- Training School in Dating Methods for Active Tectonics**

	08/09/25	09/09/25	10/09/25	11/09/25	12/09/25
8:15 - 8:30	Apertura del Summer School (Vicerrector)	Preguntas, dudas, Información general del summer school	Preguntas, dudas, Información gen	<b>Field Trip 1</b> - Dataciones en Alta Amazonia Ecuatoriana / Cuantificando procesos geomorfológicos: Erosión, Levantamiento, incisión fluvial. / Resolviendo variables en la datación: herencia, reseteo de señal, pantalla topográfica, densidad). TCN/OSL - Oswaldo Guzmán/ Gloria Lopez	<b>Field Trip 2</b> - Dataciones en el Subandino Ecuatoriano - bloques en la cuenca alta del río Misahualli - Tena - Cotundo - Edad de Exposición de marcadores morfotectónicos Oswaldo Guzmán / Julien Carcaillet
8:30 - 8:45	Actividad e Información Cultural	Actividad e Información Cultural	Actividad e Información Cultural		
8:45 - 9:45	<b>Fundamentos de Geocronología</b> - Parte 1 - Julien Carcaillet	<b>Luminiscencia Óptica Estimulada / Resonancia Paramagnética Electónica (OSL/ESR)</b> - Fundamentos, muestreo, resultados - Parte 1 - Gloria Lopez	<b>Isotopos Cosmogénicos Terrestres (TCN)</b> - Fundamentos, muestreo, resultados - Parte 1 - Julien Carcaillet		
9:45 - 10:45					
10:45 - 11:00	Break	Break	Break		
11:00 - 12:00	<b>Introducción a la Tectónica activa y Paleosimología - Radiocarbono</b> - Fundamentos, muestreo, resultados, OXcal en Paleosimología - María Ortuno	<b>Luminiscencia Óptica Estimulada / Resonancia Paramagnética Electónica (OSL/ESR)</b> - Calculo de edades , Casos de estudio - Parte 2 - Gloria Lopez	<b>Isotopos Cosmogénicos Terrestres (TCN)</b> - Fundamentos, Tratamiento de datos geocronológicos y modelados numéricos de edades - Ángel Rodés		
12:00 - 13:00					
13:00 - 14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:00	<b>Casos de estudios en Ecuador - Tectónica activa y palosimología</b> en los principales sistemas de fallas de Ecuador- Alexandra Alvarado	<b>Dataciones y Slip rate</b> - Impacto de las dataciones sobre la determinación del fault slip rate- Rodrigo de León	<b>Isotopos cosmogénicos</b> - Aplicados a tasas de desplazamientos de fallas (Fault slip rate) - Léa Pousse	Actividad Turística / Cultural - Experiencia del chocolate	Actividad Turística - Cultural / Geológica- Visita a Geositio Geoparque Napo Sumaco
15:00 - 16:00					
16:00 - 16:30	<b>Cierre del día</b>				
Sede: Universidad Regional Amazónica Ikiam (Tena, Ecuador). Idioma de impartición: Español. Número de plazas: 35. Coste: Gratuito (subvencionado por INQUA, Unesco-IUGS y Ikiam Univ.)					
	<b>Instructores</b>	<b>Temática</b>	<b>AFILIACIONES</b>	<b>MODALIDAD</b>	
	Julien Carcaillet	Fundamentos de geocronología	NRS, Université de Grenoble, Franc	Presencial	
	María Ortuno	roducción a tectónica activa y paleosimol	Universidad de Barcelona, España	Presencial	
	María Ortuno	Radiocarbono	Universidad de Barcelona, España	Presencial	
	Gloria Lopez	OSL / ESR	Sociedad Geológica Colombiana	Presencial	
	Julien Carcaillet	TCN	Universidad de Grenoble, Francia	Presencial	
	Ángel Rodés	Tratamiento de datos geocronológicos	Universidad de Barcelona, España	Virtual	
	Lea Pousse	TCN - Aplicación Fault slip rate	IRD-Universidad de Grenoble	Presencial	
	Rodrigo de León	Impacto de dataciones en el Fault Slip Rate	Uniandes, Colombia	Presencial	
	Alexandra Alvarado	Casos de estudio en Ecuador	EPN, Ecuador	Virtual	
	Oswaldo Guzmán/Gloria Lopez	Field Trip 1	URAI, Ecuador	Presencial	
	Oswaldo Guzmán	Field Trip 2	URAI, Ecuador	Presencial	
	Organizadores	Info general			

Sponsors



Organizadores



CTC-010-2024 / CTC-011-2024