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A scientific tourism project with the community of the cultural landscape of the Cerro Machín Volcano, Colombia

César Augusto Velandia Silva
Universidad de Ibagué

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A scientific tourism project with the community of the cultural landscape of the Cerro Machín Volcano, Colombia - Sustaining Vernacular Working Landscapes



El conocimiento es de todos

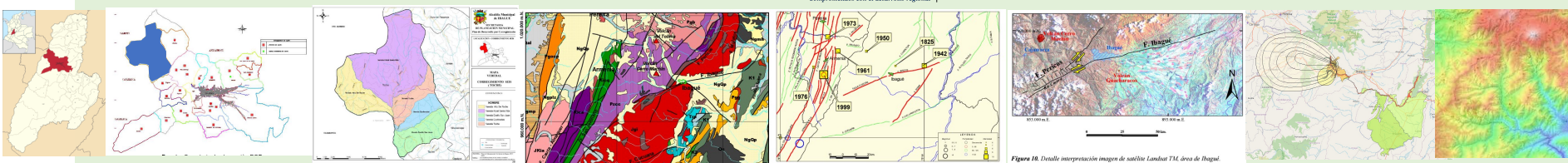
Minciencias



Universidad de Ibagué
Compromiso con el desarrollo regional

Rastro Urbano
Hábitat, territorio y cultura

ISCLL 50th Anniversary
Cultural Landscape Symposium



Main goal:

To develop a collective-participatory social management of knowledge for the identification, valuation and transmission of the natural, cultural heritage and geoheritage of the Alto de Toche rural district by the community represented by 20 families aimed at the sustainable use of scientific tourism and the creation of cultural industries.



Specific goals:

To empower, integrate and articulate the traditional knowledge of the Alto de Toche community with the identification of baselines of the natural, archaeological cultural and geoheritage of the Cerro Machín Volcano.

Locate, geo-reference and map the natural and heritage assets of the Alto de Toche trails and generate thematic maps on biodiversity, archaeological heritage and geoheritage of the Cerro Machín Volcano.

To design with the community a social innovation strategy for the sustainable use of natural, cultural heritage linked with geoheritage through scientific tourism activities and cultural industries.

To design, install, present and appropriate with the community an interpretative memory module that integrates through didactic and pedagogical objectives, the production and management of the materials generated from the collective work, which consolidates the sites, routes-trails, and areas of high ecosystemic, cultural and geoheritage interest for scientific tourism.

Geoheritage: Cerro Machín Volcano

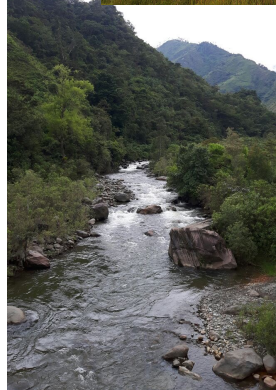


Table 1. Absolute dates for the region of Tolima, prepottery period.

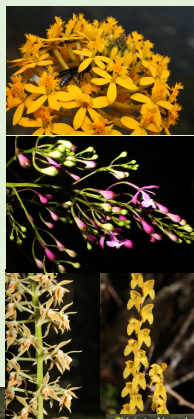
Laboratory Register, type of sample, weight	Administrative localization and site	Origin	Context of association	Conventional C ¹⁴ age BP	Calibration (2 sigma), probability 95%	Source
1 Charcoal	Cajamarca, Aníme	Housing site, Cut 1, Level 50-60 cm	Soil with fragments of pottery of the late period. The charcoal dated is from the base of the occupation and corresponds to a natural event of the volcano Cerro Machín	4480 ± 60	2530 ± 60	Tovar 1981
Beta	Cajamarca, Critales	Site 4, U.E. 5, Level 160-250 cm, Horizon A ₁₆₀₋₂₅₀	Palaeosol with a high concentration of total phosphorus (1158 ppm), possible anthropic use or result of a natural event of volcano Cerro Machín	8560 ± 60	6610 ± 60	Salgado and Gómez 2000.

Archaeology and settlement patterns in the landscape: evidence of material culture remains from 12,000 years ago.

Expected products/activities:

- Three (3) quarterly workshops (1st Start, 2nd Development, 3rd Closing) of conceptual construction and development of materials (maps, photographs, routes, sites) on the natural-cultural assets of the context with the community of Alto de Toche.
- One (1) research article accepted for publication in a Q2 indexed journal.
- One (1) participation in an international scientific event (virtual).
- One (1) GIS geodatabase in ArcMap of natural assets (wax palm forests, water courses) and archaeological settlement sites in the sector and vicinity of the Cerro Machín Volcano presented in ArcGIS Online platform.
- One (1) thematic GIS map, generated in ArcGIS Pro: three-dimensional visualization.
- One (1) technical-memorial report on the process of community design and social innovation.
- One (1) expository memory (montage of photos, maps, texts, routes) for the use of the community and visitors of Alto de Toche scientific tourism.

Flora and Fauna



In summary, the project seeks to increase the knowledge of the community, based on the management of the knowledge of the natural-cultural values of the biocultural, archaeological and geological heritage of the rural district of Alto de Toche, municipality of Ibagué, Tolima.

Through a strategy of social innovation and creation, articulated to the construction of an integrated discourse on the symbolic influence and risk management by the geoheritage represented by the Cerro Machín Volcano and the archaeological settlements (terraces or platforms) and indigenous paths.

