



Boletín Informativo

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VICEDIRECCIÓN CIENTIFICA Por: **Dr. O'Leary F. González Matos y Dra. Grisel Morejón Blanco**
Participó Yexenia Viltres en evento internacional.



TOPICAL ISSUES 2021
Dr. C. YEXENIA VILTRES MELAN
Cuban National Centre for Seismological Research
+53 5299- 87-47, yviltres1@gmail.com

Dr. Prof. REGINA E. DASHKO
St. Petersburg Mining University
regda@mail.ru

Dr. ENRIQUE D. ARANGO ARIAS
Cuban National Center for Seismological Research
+53 5263-17-51, arangoedern2019@gmail.com

EXTERNAL GEODYNAMIC PROCESSES AND PHENOMENA GENERATED IN THE WEATHERING CRUSTS OF MOA, CUBA

The Moa region is characterized by the development of extensive weathering crusts, which constitute the most important nickel and cobalt deposits in the country. These deposits have their origin associated with the external geodynamics that our planet presents, where several exogenous processes and phenomena are observed, which act on rocks chemically susceptible to weathering processes.

The research aims to identify the exogenous geodynamic processes and phenomena that influence the modeling of the terrain and that promote its instability. Several works carried out describe the main weathering agents that influence the generation of powerful weathering crusts; water, relief, humid tropical climate, temperatures, etc. Serpentinized ultrabasic rocks constitute the main source rock, from which these transformation processes have been generated.

In correspondence to several field works, the bibliographic review of several investigations carried out in the study area, it was possible to determine that the main processes and phenomena developed in the study area, are chemical and physical weathering, erosion, landslides and the activity itself, anthropic of man (Picture 1). To which attention should be paid due to its negative consequences on the stability of the soils, causing accidents that are harmful to man and the country's economy. Chemical weathering is of great importance in the region represented by the laterization processes where primary minerals are transformed and secondary lateritic minerals that carry nickel and cobalt are formed, from chemical reactions of oxidation, hydration and hydrolysis, which act with faster due to the high degree of cracking and fracturing that serpentinized ultrabasic rocks have as they allow water to pass through them.

It is valid to emphasize that there are internal geodynamic phenomena, which although it is not the objective of the research, but if they are important in the studies of instability of soils and rocks, in this case it is the seismicity of the area, since you are in a moderately seismic-generating zone active, with the occurrence of significant earthquakes that can cause human and material damage.

[FULLTEXT](#)

VICEDIRECCIÓN TÉCNICA Por: **Maribel Leyva Arias**

REPORTE MENSUAL DEL MES DE MAYO DEL 2021

Total, de terremotos registrados: **353**

Total, de terremotos del área de Cuba: **274**

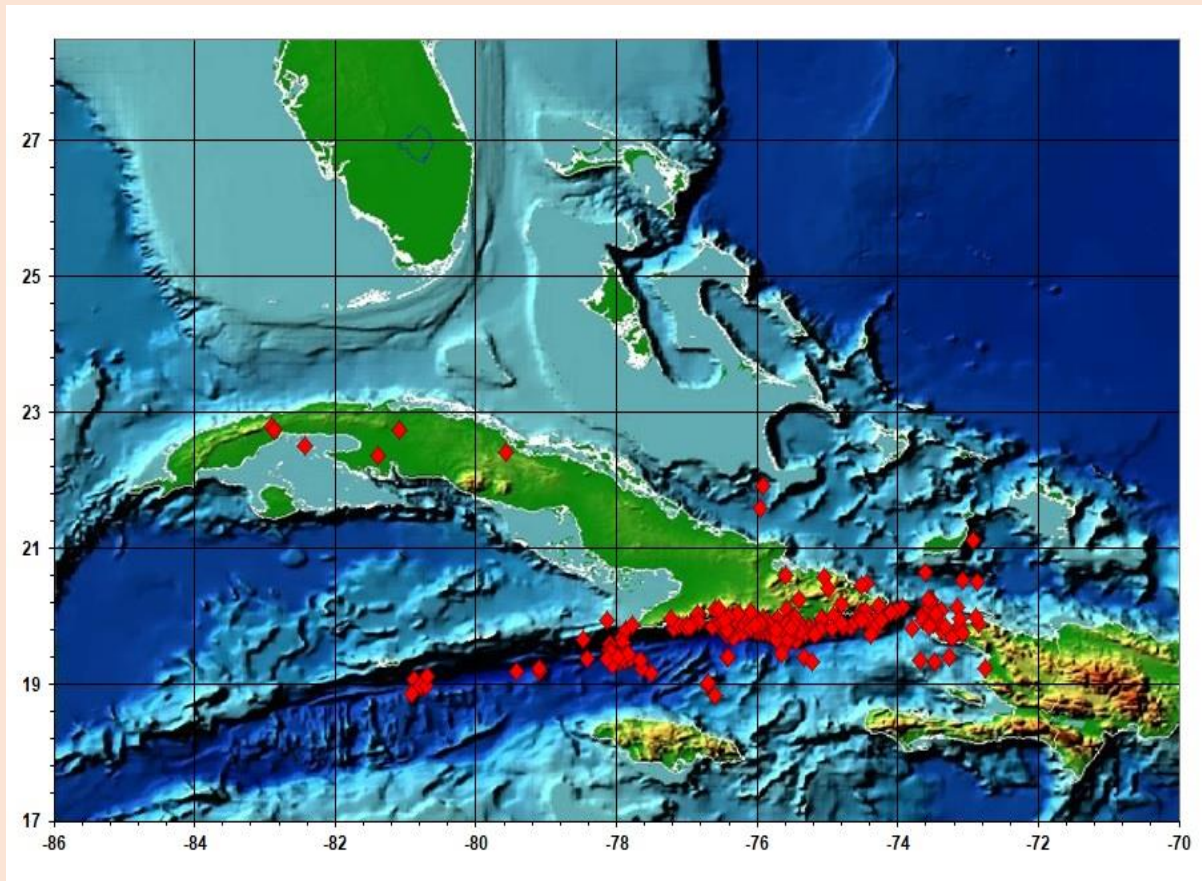
Total, de terremotos fuera del Territorio Nacional: **79**

Día con más terremotos: 30 de mayo con **23 sismos**, las magnitudes en este día fueron: **0.9 – 4.3**

Zona más cantidad de sismos: **Santiago- Baconao**, con **108** sismos.

Zonas más energéticas: **Cabo Cruz**.

Terremotos dentro del territorio de nacional del SSNC (Longitud -73°.00 a -85°.00 y Latitud 19°.00 a 24°.00):



Zonas	Cantidad	Magnitud	Magnitud equivalente	Energía
CABO-CRUZ	32	1.5 – 4.3	4.3	Alta
PILON-CHIVIRICO	56	1.0 – 3.7	3.7	Alta
SANTIAGO-BACONAO	108	0.8 – 2.8	3.1	Alta
IMIAS	26	1.2 – 2.8	3.0	Alta
MOA-PURIAL	6	1.3 – 2.3	2.5	Normal
CENTRO	3	1.8 – 2.5	2.5	Normal
PINAR	3	1.8 – 2.5	2.5	Normal
PASO DE LOS VIENTOS-GRAN INAGUA	29	1.9 – 3.3	3.5	Alta
BAHAMA SUR	2	2.1 – 3.2	3.2	Normal
CAIMAN	9	2.5 – 3.4	3.7	Alta

NOS VEMOS...



Centro Nacional de Investigaciones Sismológicas (CENAI)

Vice dirección científica Calle 17 #61 Reparto Vista Alegre
 Vice dirección técnica Calle 7 #2 entre L y M Reparto
 Ampliación de Terrazas, Santiago de Cuba,
 Sitio Web: <http://www.cenais.cu>
 Mail: ana@cenais.cu