Through careful spectroscopic analysis, we find that bedrock is comprised of a mixture of refractory elements, including silicon, aluminum, and others. In particular, following laser ablation of bedrock, the 3s^23p^2 3P_2 \rightarrow 3s3p^3 5S_2 transition of Si I at 33,102.897 \text{\AA} (near 3020 \text{nm}) was observed in emission, clearly indicating the presence of silicon. No transitions from silicon-containing molecules were observed, but B. Rubble has suggested a search for the \nub{2} band of SiO_2 in the infrared.

In stratigraphy, bedrock is the common term for consolidated rock underlying the surface of a terrestrial planet, usually the Earth. Above the bedrock is usually an area of broken and weathered unconsolidated mucky mucky in the basal subsoil. The top of the bedrock is known as rockhead and identifying this, via excavations, drilling or geophysical methods, is an important task in most civil engineering projects. Superficial deposits (also known as drift) can be extremely thick, such that the bedrock lies hundreds of meters below the surface.

Yabba Dabba Do!!!!!!

Length: 15 Minutes
Mini Symposium 1: Beyond the Mass-to-Charge Ratio: Spectroscopic Probes of the Structures of Ions
Mini Symposium 2: None
Nominations: Rao Prize: Yes
Miller Prize: No
Comments: Wilma will be so proud.
SPECTROSCOPIC CHARACTERIZATION OF BEDROCK

FRED FLINTSTONE, Departments of Chemistry and Geology, Rubble School of Mines, Bedrock, USA.

Through careful spectroscopic analysis, we find that bedrock is comprised of a mixture of refractory elements, including silicon, aluminum, and others.

In particular, following laser ablation of bedrock, the $3s^2 3p^2 \rightarrow 3s3p^3 5S_2$ transition of Si I at 33,102.897 cm$^{-1}$ (near 3020 Å) was observed in emission, clearly indicating the presence of silicon. No transitions from silicon-containing molecules were observed, but B. Rubble has suggested a search for the $\nu_2$ band of SiO$_2$ in the infrared.

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Yabba Dabba Do!!!

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Wilma will be so proud!

Private communication

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Time required: 15 min

Keywords: Biology, natural substances — Condensed phase — Infrared/Raman — Spectroscopy as an analytical tool

Mini-Symposia Requested: Beyond the Mass-to-Charge Ratio: Spectroscopic Probes of the Structures of Ions — None

Competing for Rao Prize? Yes

Competing for Miller Prize? No

Comment: Wilma will be so proud.