

# The Relationship between the Absolute Ages and the Compression Strength in the Miyazaki Group

# Shigetoshi Goto[1]; Keizou Suzuki[2]

[1] Kyusyu Civil Eng.; [2] Nankyu Univ Hortical of Conserv

<http://moyo2006.sakura.ne.jp/bbs06/joyfulyy.cgi>

We examined the relationship between the Absolute Ages and the Compression Strength of the sandstones and the mudstones in the Miyazaki Group. As a result, we prove that the compression strength increase rates change at the 6.0Ma. And the compression strength increase rate of the older sandstones is much bigger than the one of the younger sandstones in particular. The formation of the 6.0Ma in the Miyazaki Group distributes the boundary between Udo Mountainous Region and Miyazaki Plain. Therefore the diagenenesis of the sandstones in the Miyazaki Group that is older than the 6.0Ma amounts to anadiagenesis(mainly SiO<sub>2</sub>) from syndiagenesis(mainly CaCo<sub>3</sub>). And the land form of the Udo Mountainous Region is conspicuously steep because the erosion resistance in Udo Mountainous Region is very strong. Finally we may perform the performance-based design based on the Fig.1 not a conventional uneconomical design.

