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Cover illustration

Small scale fold in a limestone mylonite from the inverted limb of the Morcles nappe at Saillon, Valais. Hand specimen is shown in approximately true scale. Black and white banding represents primary bedding of a marl-limestone sequence of the lower "Malm". Color contrast is visualized by HCl-etching of an initially polished surface: white corresponds to etched out clay minerals and other insoluble minerals. The original decimetric thickness of individual beds has been dramatically reduced by extremely intense but homogeneous plastic deformation. This deformation is related to nappe emplacement and led to a strong layer parallel mylonitic foliation. Folds and minor associated faults are due to a later deformation event. (Scan Martin Burkhard).

Zum Titelbild

Kleinfalte in einem Kalkmylonit des Verkehrtschenkels der Morcles-Decke bei Saillon, Wallis. Das Handstück ist etwa in seiner natürlichen Grösse abgebildet. Die schwarz-weiße Bänderung entspricht der ursprünglichen Schichtung in einer Kalk-Mergel-Wechsellagerung des unteren «Malm». Der Farbkontrast wurde durch das Anätzen einer polierten Oberfläche mit Salzsäure erreicht: unlösliche Ton- und andere Mineralien erscheinen als weisses Pulver auf der getrockneten Schnittfläche. Die ursprüngliche Schichtmächtigkeit im dm-Bereich wurde durch eine extreme, aber homogene Deformation auf wenige mm reduziert. Diese Verformung wird mit der Deckenplatznahme korreliert und führte zu einer starken, schichtparallelen Foliation. Faltung und kleinere zugehörige Brüche werden einer späteren Deformationsphase zugeordnet. (Scan Martin Burkhard).

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Photo de couverture

Pli mineur dans une mylonite calcaire du flanc inverse de la nappe de Morcles à Saillon, VS. L'échantillon est à peu près représenté à sa taille réelle. Le litage noir/blanc est d'origine primaire et correspond à une alternance régulière de bancs calcaires et de marnes du «Malm» inférieur. Le contraste des couleurs est visualisé par une attaque d'une surface polie à l'HCl, qui fait ressortir les argiles et autres minéraux insolubles en blanc. L'épaisseur initialement décimétrique des bancs est fortement réduite par une déformation plastique extrêmement intense mais homogène. Cette déformation est liée à l'emplacement de la nappe et conduit à la formation d'une foliation prononcée, parallèle au litage original. Le plis et failles mineures associés sont dus à une phase de déformation ultérieure. (Scan Martin Burkhard).

Foto di copertina

Piegia minore in una milonite calcarea del fianco inverso della falda di Morcles a Saillon, in Vallese. Il campione risulta più o meno in scala reale. Le bande nero/bianche sono di origine primaria e corrispondono ad una regolare alternanza di rocce calcareo-marnose del «Malm» inferiore. La reazione all'HCl di una superficie precedentemente levigata consente di visualizzare il contrasto dei colori: in bianco risultano le argille ed altri minerali insolubili. La potenza dei banchi, in origine decimetrica, viene fortemente ridotta da una deformazione plastica estremamente intensa ma omogenea. Questa deformazione è legata alla giacitura della falda e porta alla formazione di una chiara e netta tessitura (o foliazione) milonitica, parallela alle bande di origine primaria. Le associate pieghe e faglie minori sono dovute ad una fase di deformazione ulteriore. (Scan Martin Burkhard).

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