

添付資料 「スマホで見る年縞の極小世界！」 概要



虫眼鏡マークの QR コード

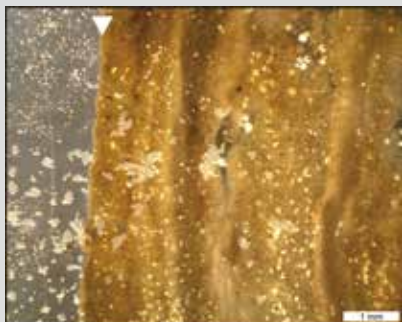


虫眼鏡マークにスマホをかざす
(QR コードをカメラで読み込む)



該当部分の拡大画像が表示される

①水月湖年縞 (年縞ステンドグラス)



2017年の年縞
Varve deposited in 2017

1



浦見川掘削により堆積した黒色層 江戸時代 西暦 1664年
Dark layers deposited after Urami Canal excavation, 1664 AD
* Urami Canal was opened 1 year after a disaster known as KAMBUJI Earthquake in 1662, in order to drain lake water to the sea.

2



安土桃山時代 西暦 1586年
Event layer deposited in 1586 AD

3



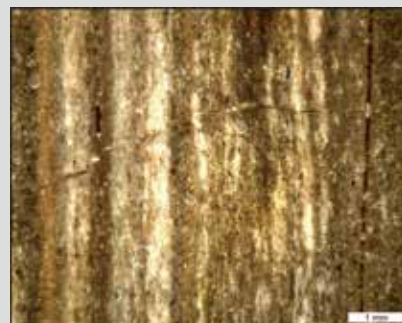
葉っぱの化石
Fossilized leaf
* The Suigetsu cores have been able to provide us with around 800 pieces of the fossilized leaves, and the data from which are included into IntCal23, a data set for calibration of radiocarbon dates.

4



葉っぱの化石
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5



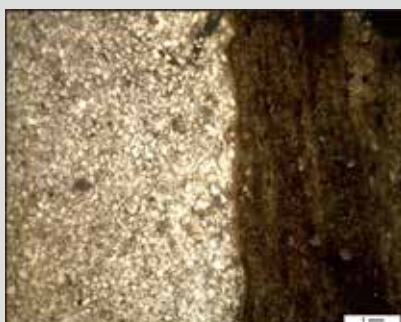
水月湖年縞拡大 明るい層と暗い層の1対で1年分
Closeup view of the Lake Suigetsu Varves
* One pair of dark and bright coloured layers represent the varve from a single year. The dark layers were built up during warm seasons, while the bright layers come from cold seasons.

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鹿野カルデラの火山灰 (アカホヤ火山灰) 縄文時代 7253 ± 23 年前
Kikai-Akahoya tephra erupted from Kikai Caldera, Neolithic period, 7253 ± 23 cal yr BP
* Kikai Caldera is located in the Osumi Strait ca.30 km off the southwest coast of Kyushu Island, ca. 700 km far from Lake Suigetsu.

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ウルルン島の火山灰 10209 ± 17 年前
Ullung-Oki tephra from Ullungdo Island, 10209 ± 17 cal yr BP
* Ullungdo is a volcanic island located 180 km east of the Korean peninsula, ca. 500 km far from Lake Suigetsu.

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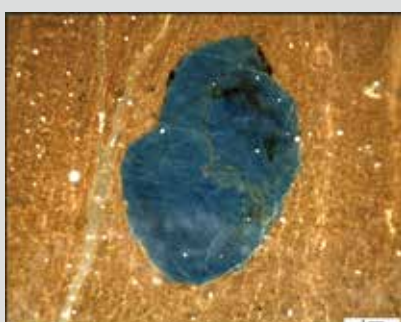
大山の火山灰 28888 ± 36 年前
Tephra from Mt. Daisen, 28888 ± 36 cal yr BP
* Mt. Daisen is a volcanic mountain located in Tottori prefecture, southwest Japan, ca. 300 km far from Lake Suigetsu.

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姪島カルデラの火山灰 (AT 火山灰) 30078 ± 48 年前
Aira-Tin tephra (AT) erupted from Aira Caldera, 30078 ± 48 cal yr BP
* Aira Caldera is a giant caldera in the south of the Kyushu island, ca. 600 km far from Lake Suigetsu.

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藍鉄鉱 (変質した生物の死骸) ⇨ 空気に触れると鮮やかな青に変わる
Vivianite
* Vivianite is produced around organic matters in sediments. Pure vivianite is colorless, but the mineral oxidizes easily, changing the color as blue that to deep bluish green.

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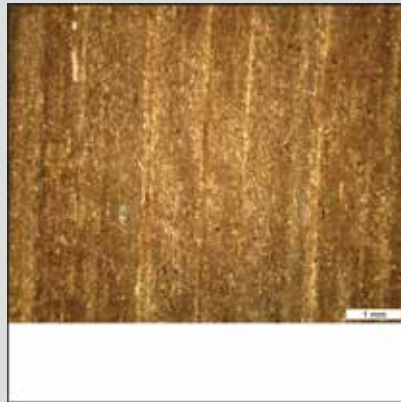
木の化石
Wood fossil

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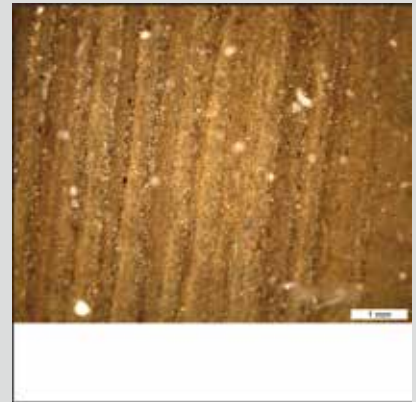
①水月湖年縞 (年縞ステンドグラス)



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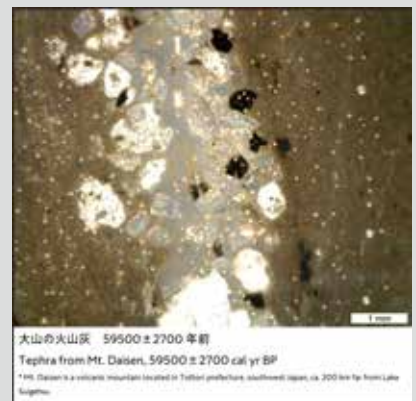
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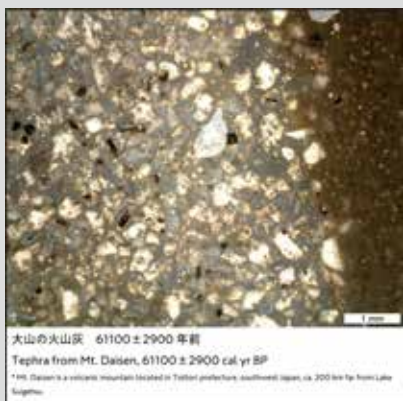
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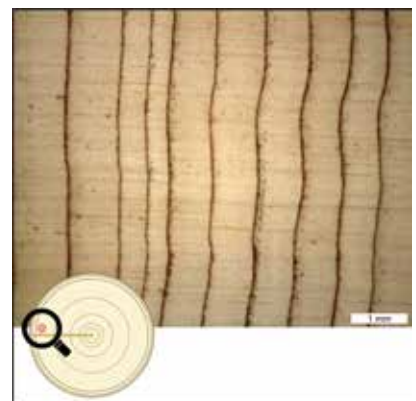


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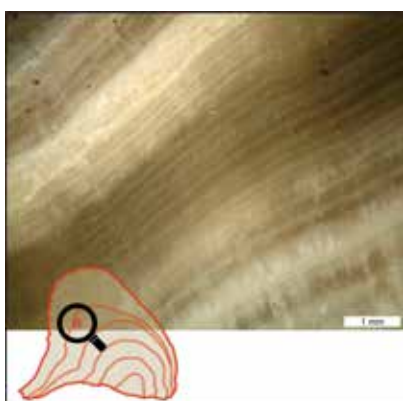
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②木の年輪



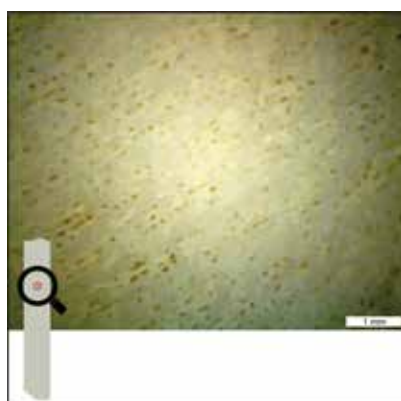
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③鍾乳石木の年輪



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④サンゴ



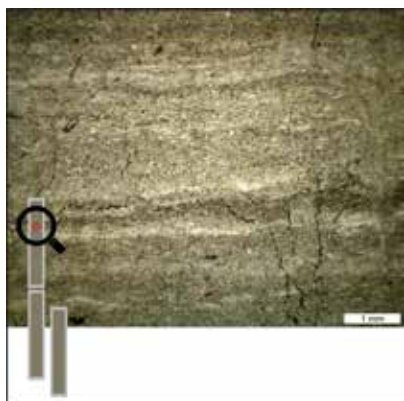
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⑤モンゴルの年縞



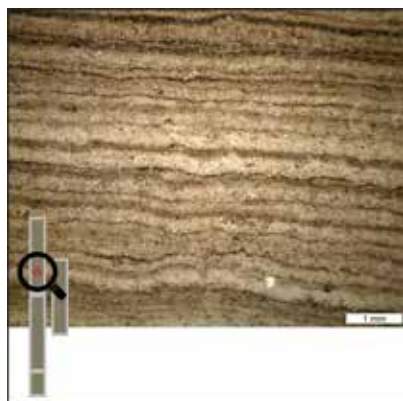
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⑥ エジプトの年縞



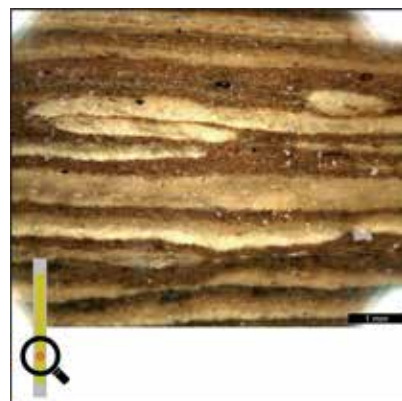
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⑦ フィンランドの年縞



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⑧ ドイツの年縞 (1/2)



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⑧ ドイツの年縞 (2/2)



ラッハジー火山灰

Tephra from Laacher See Caldera

* The eruption date of the Laacher See Tephra has been found to be 12800 ± 30 years ago and is used as a date indicator across a wide range of Europe.

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