

付録 C (CD-ROM)

BHTV 検層による掘削孔壁のイメージング画像.

Acoustic Caliper : ツールから放出され, 孔壁からの反射してくる反射波の到達時間を示し, 孔径に比例する. 色スケールで寒色系になるにつれ到達時間は長くなる.

Amplitude : ツールから放出され, 孔壁からの反射してくる反射波の振幅値を示す. 色スケールで寒色系から黒色になるにつれ反射波の振幅は小さくなる. 孔壁の亀裂や破碎部では照射波が反射せず, 黒色になっている.

After Fracturing : 水圧破碎試験後の BHTV 検層の Amplitude を示す.

Appendix C (CD-ROM)

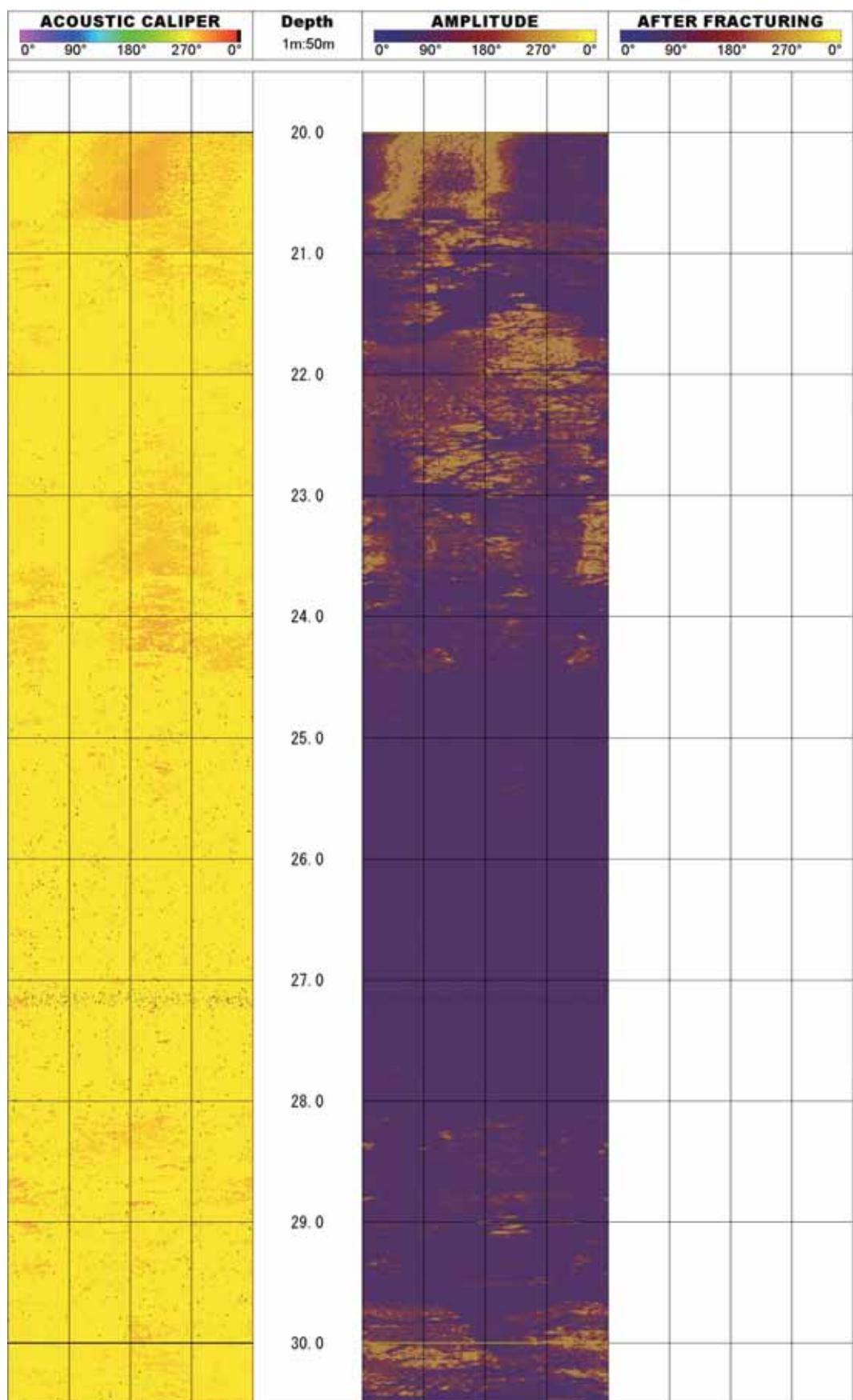
Pictures of the borehole wall imaged by means of BHTV (Borehole Televiewer) logging.

Acoustic Caliper : color image representing the travel time of ultrasonic pulse which is transmitted from BHTV tool, reflects at the borehole wall and returns to the BHTV tool. As the tool is rotating during moving up in the borehole, the acoustic pulse scans the borehole wall. The colder the color is, the longer the travel time and the larger the radius of borehole is.

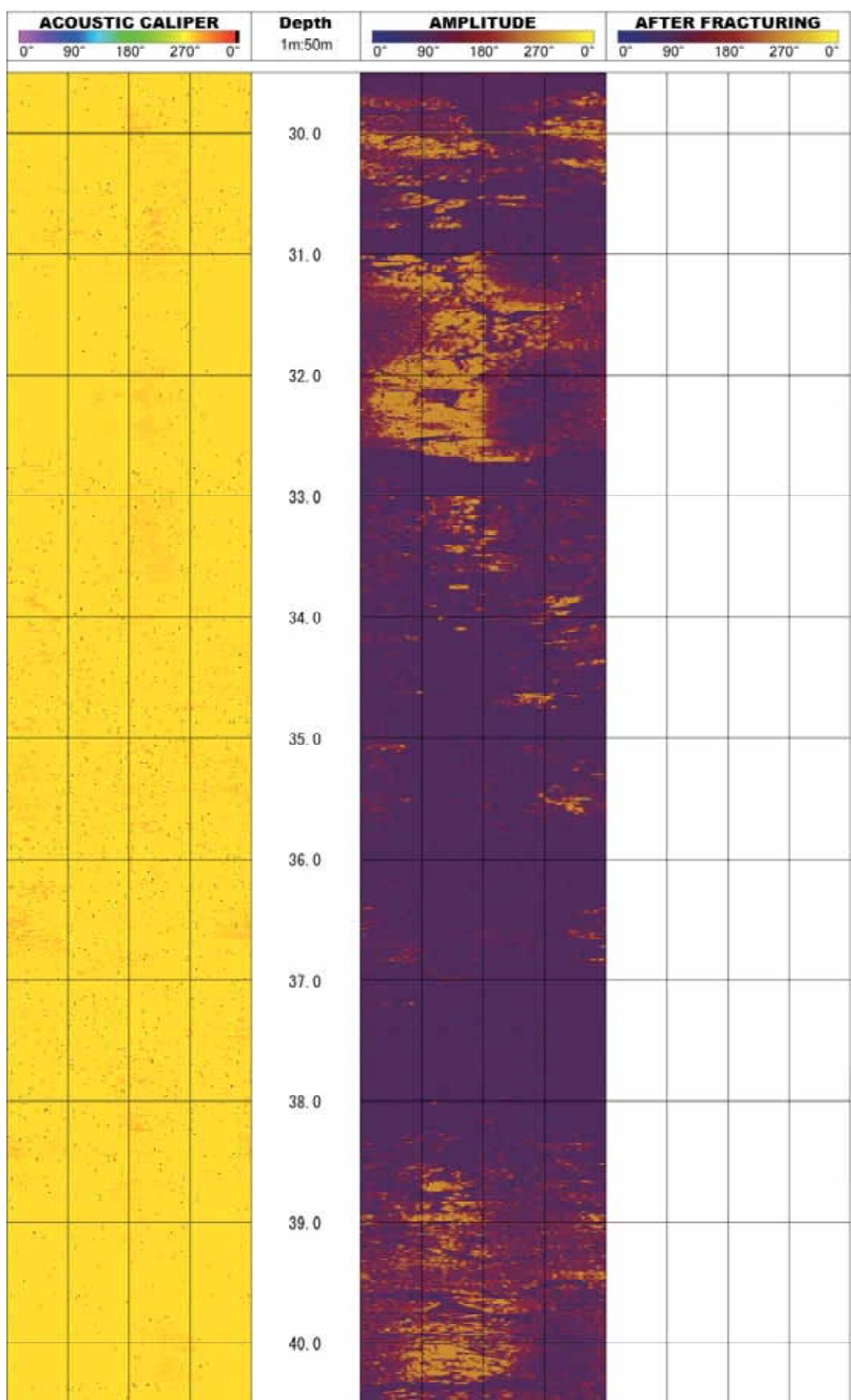
Amplitude : color image representing the amplitude of the reflected ultrasonic pulse. The darker the color is, the smaller the amplitude is. The fracture or damaged zone can not reflect the acoustic pulse and is colored as block.

After Fracturing : Amplitude of the BHTV logging after the hydraulic fracturing in the same depth region.

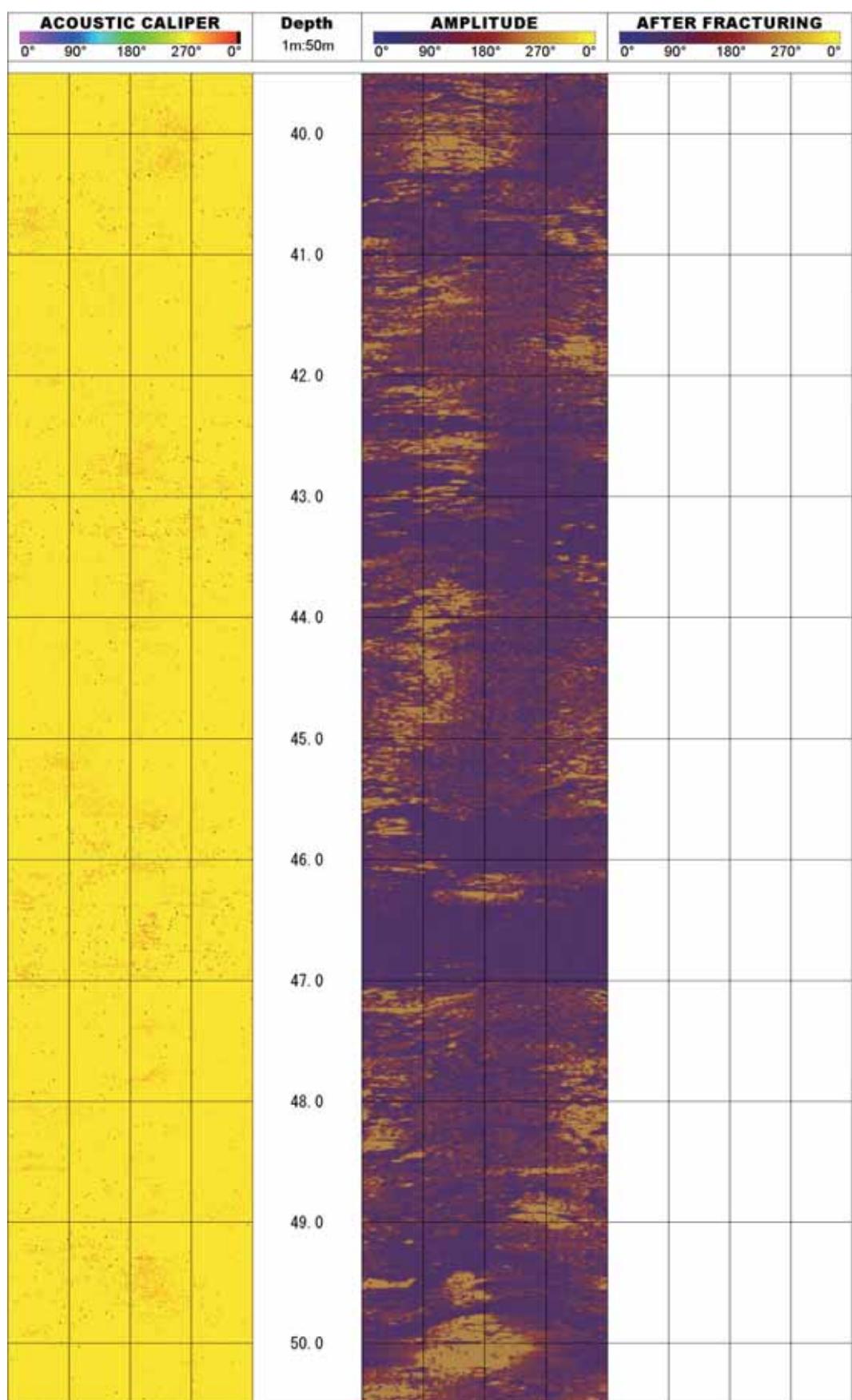
垂直孔 (vertical hole)



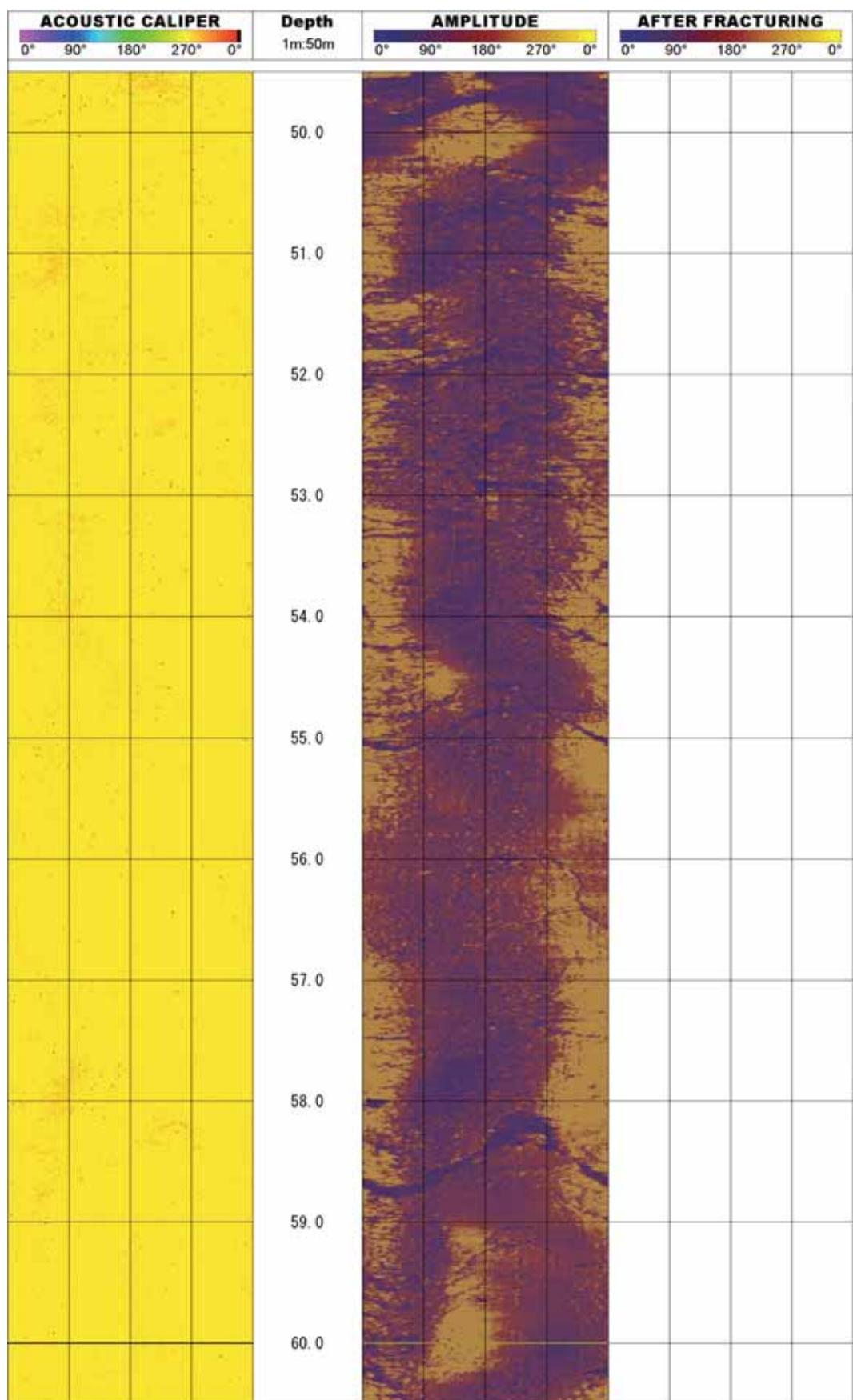
垂直孔 (vertical hole)



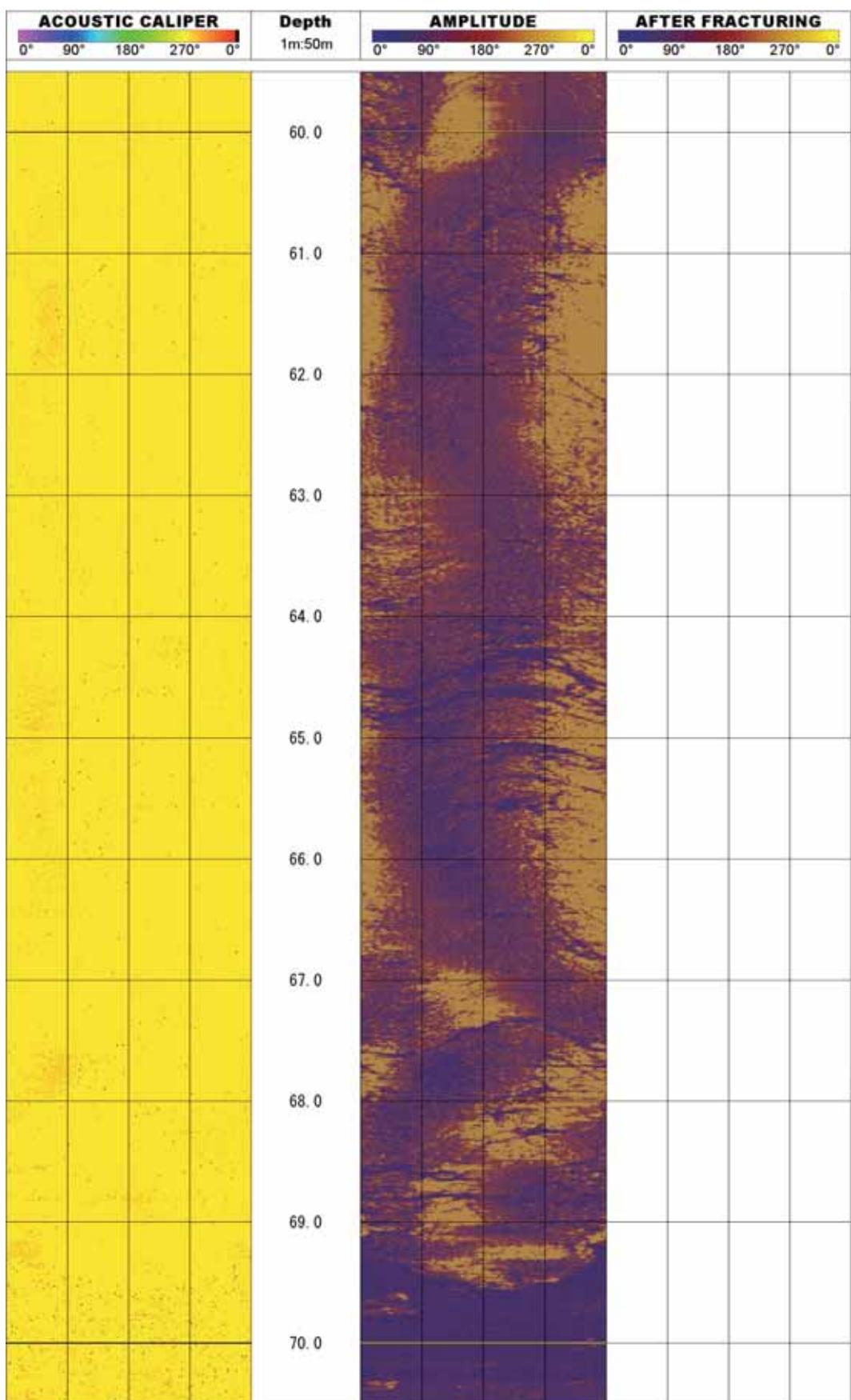
垂直孔 (vertical hole)



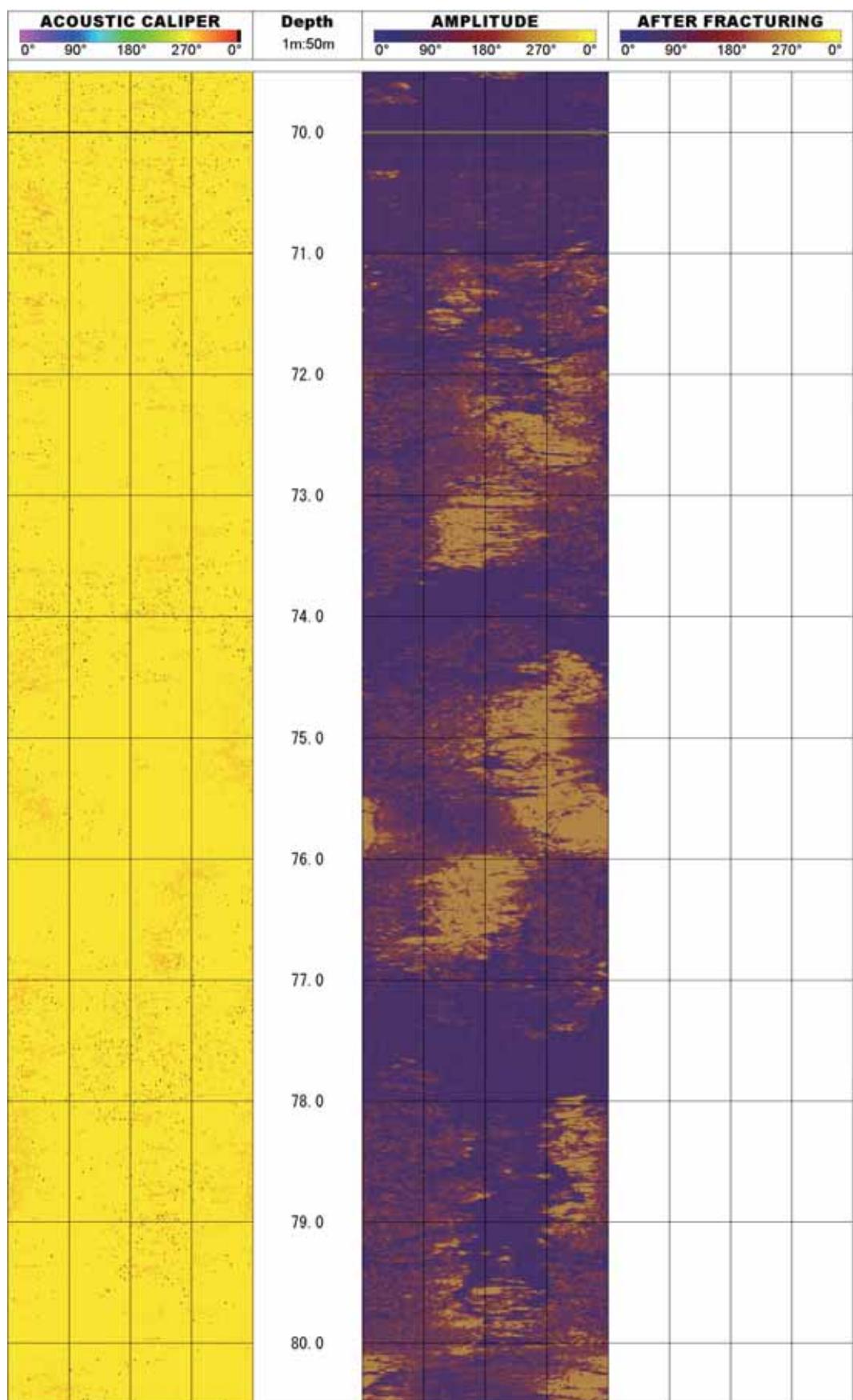
垂直孔 (vertical hole)



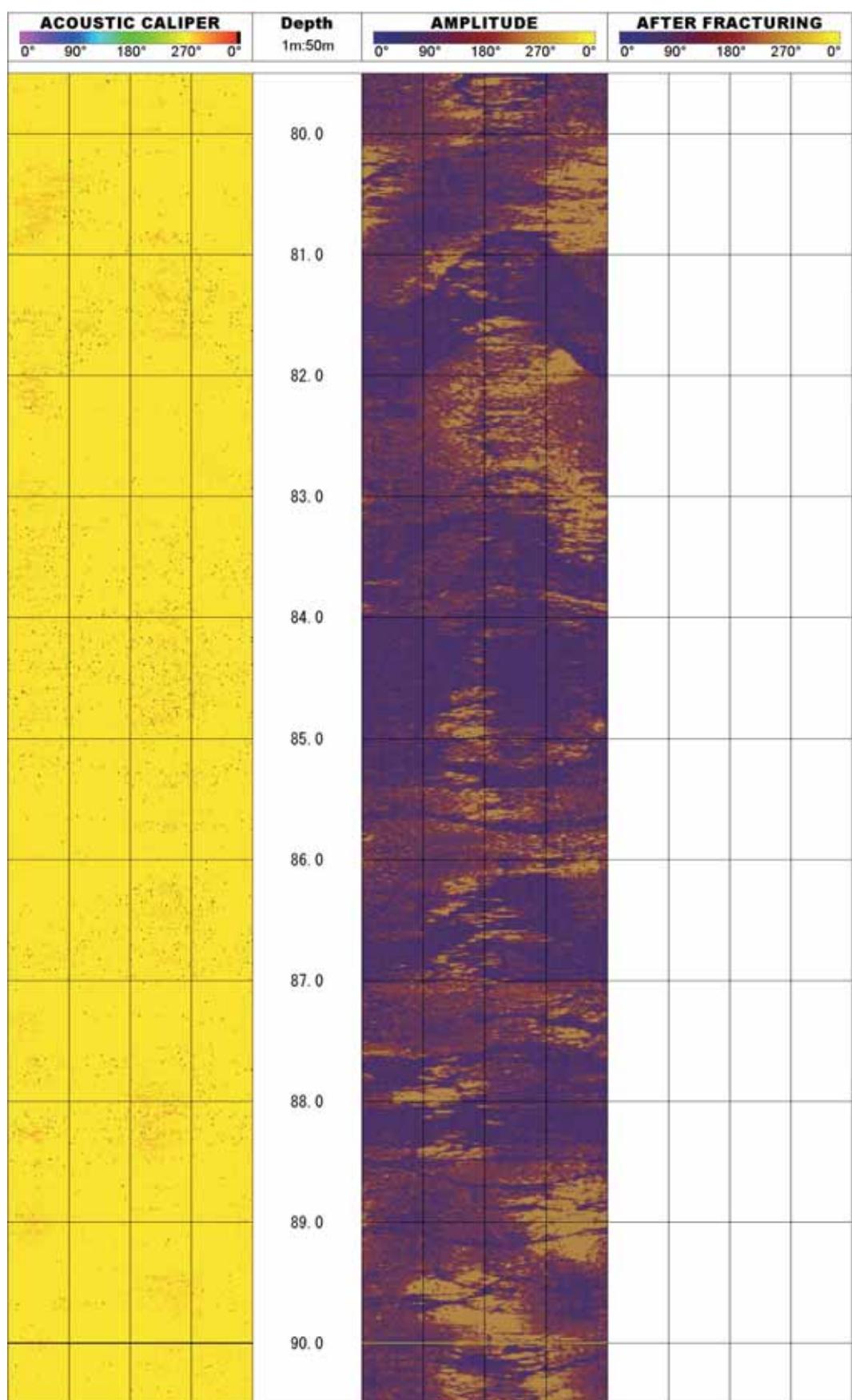
垂直孔 (vertical hole)



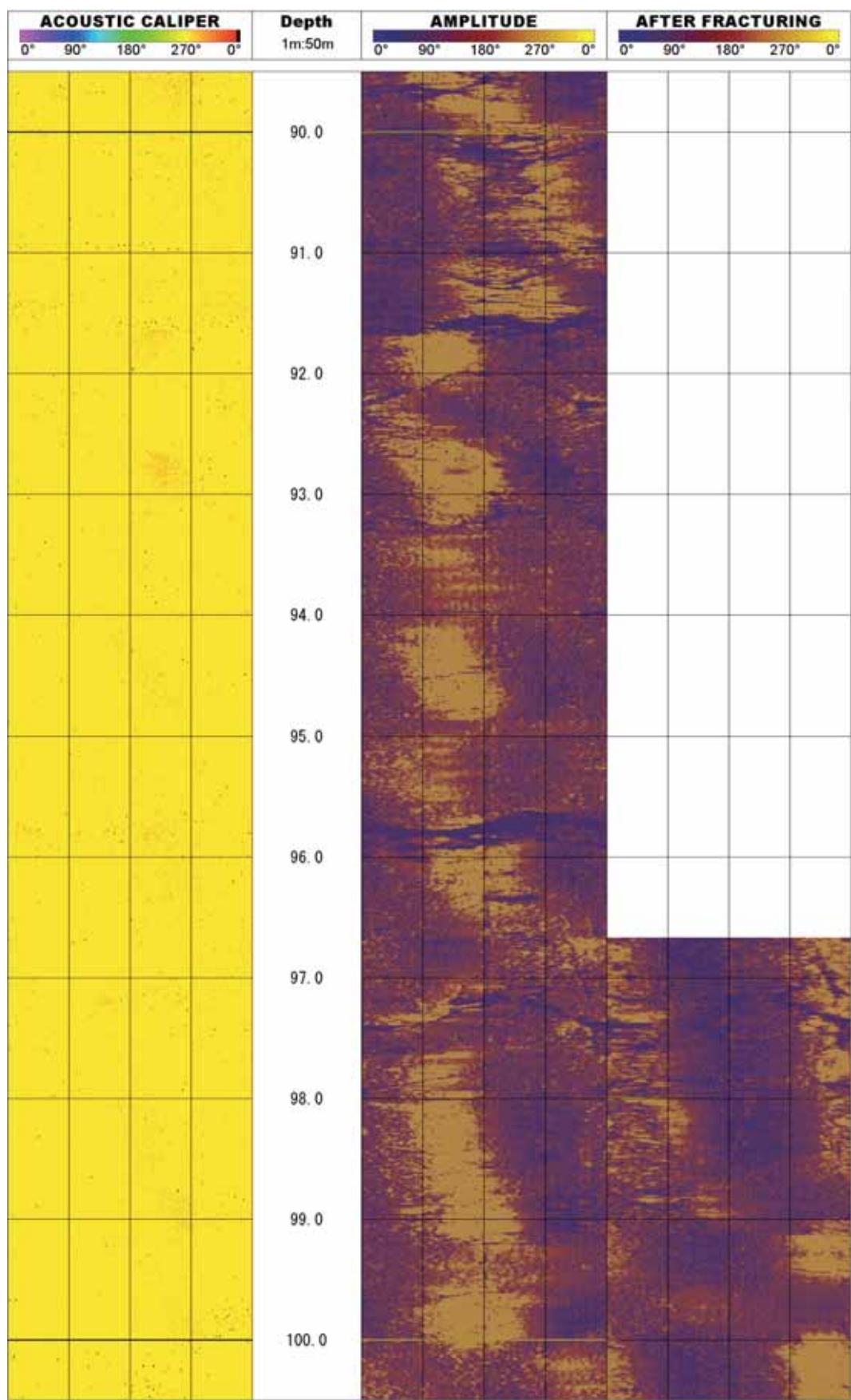
垂直孔 (vertical hole)



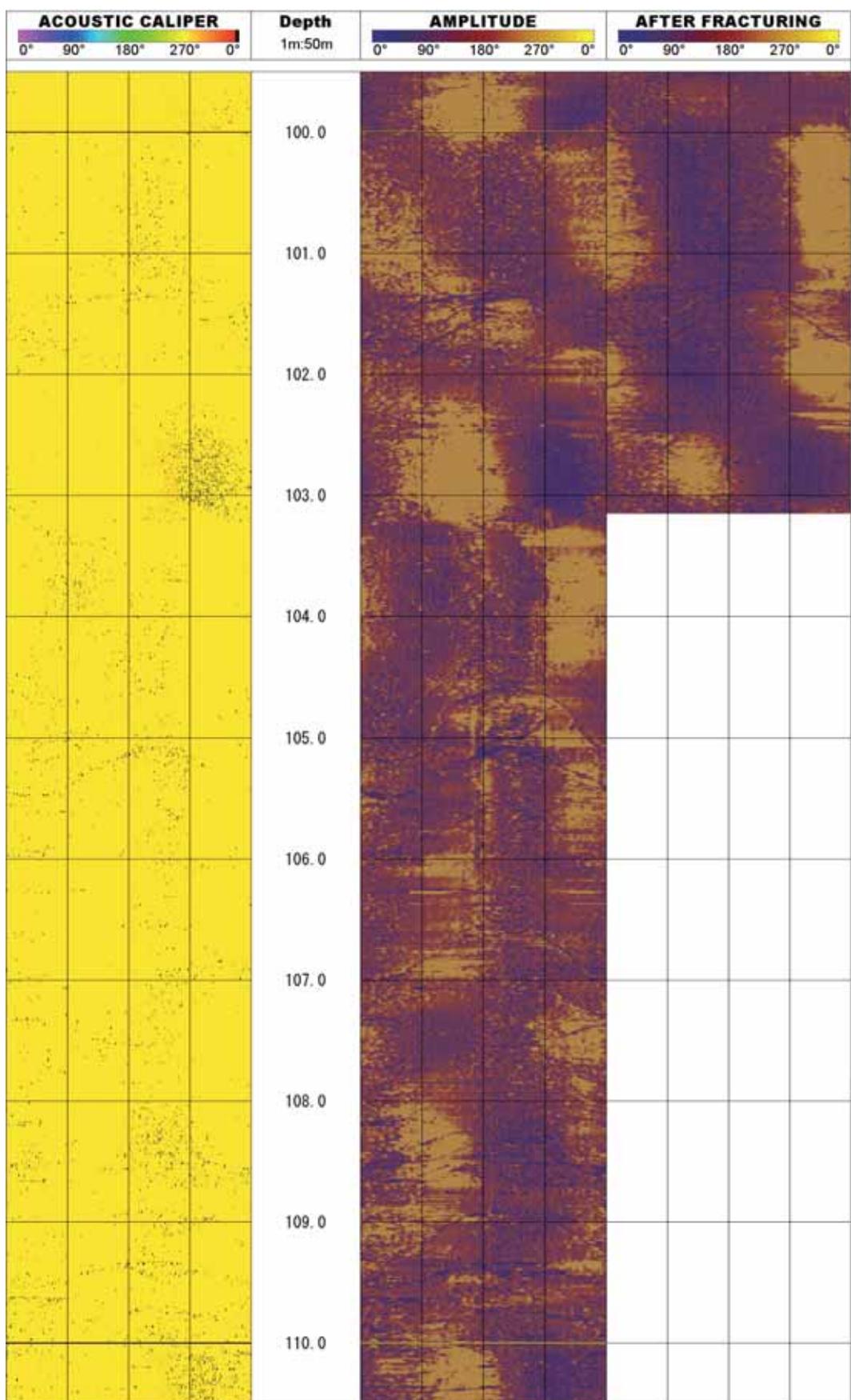
垂直孔 (vertical hole)



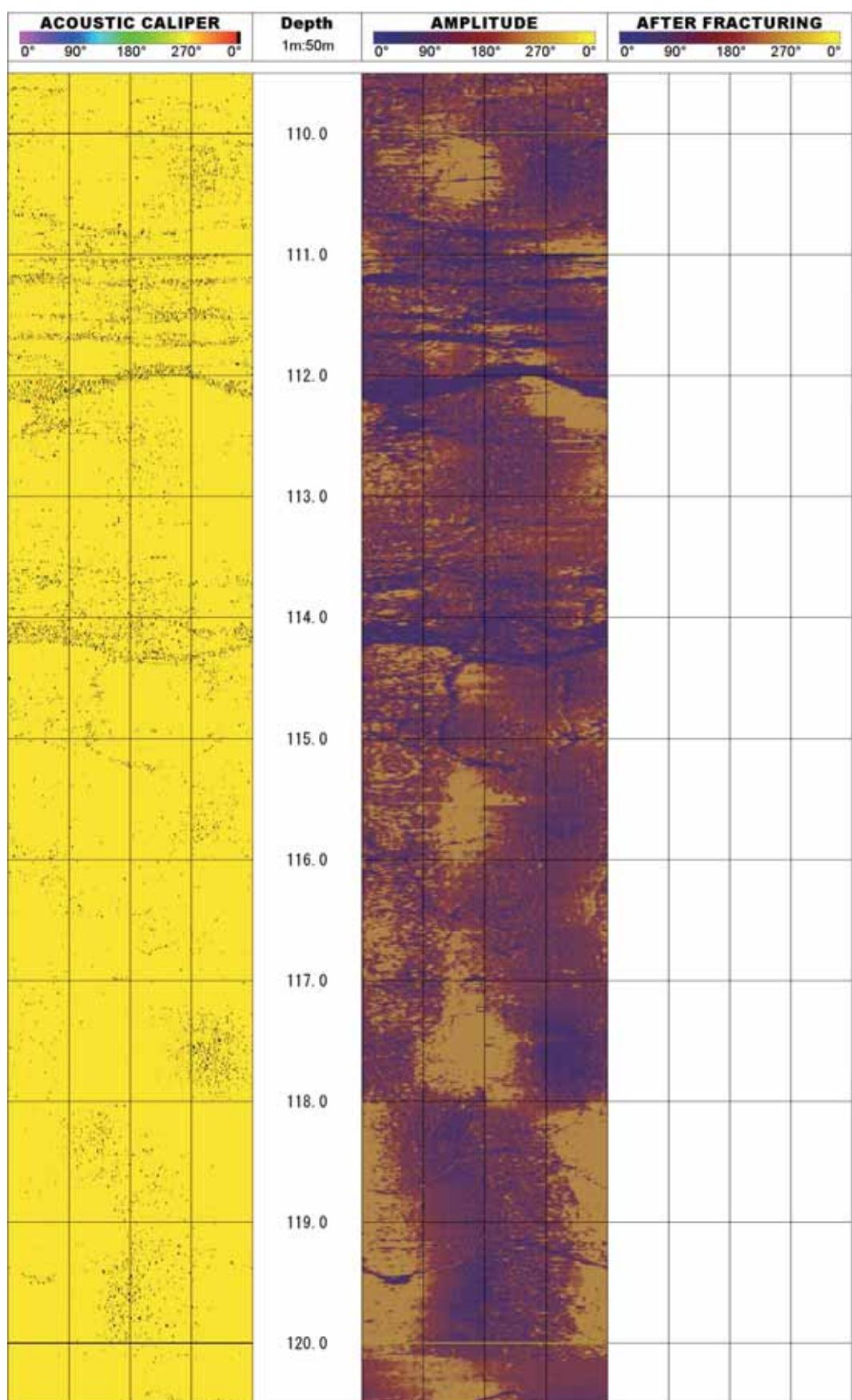
垂直孔 (vertical hole)



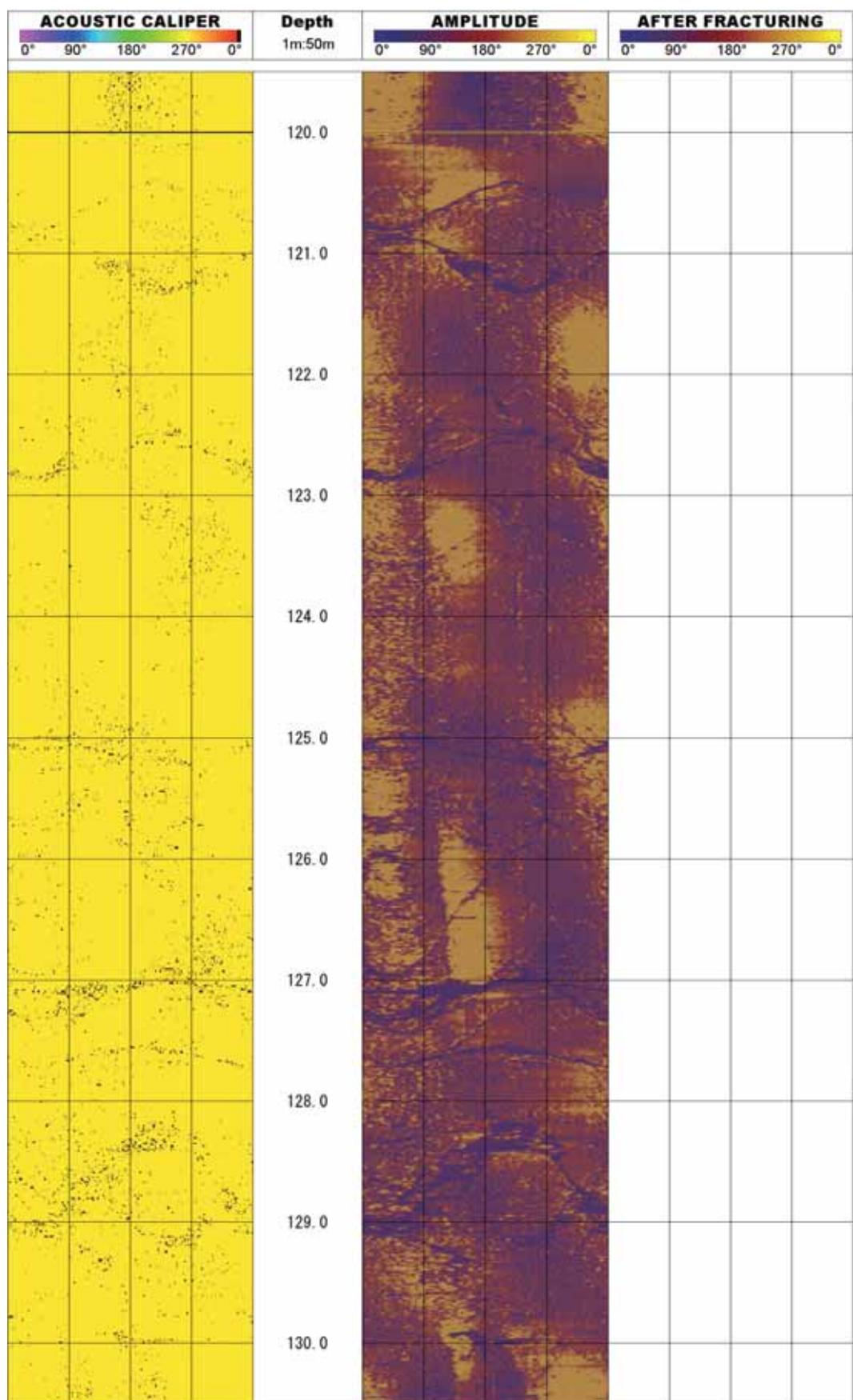
垂直孔 (vertical hole)



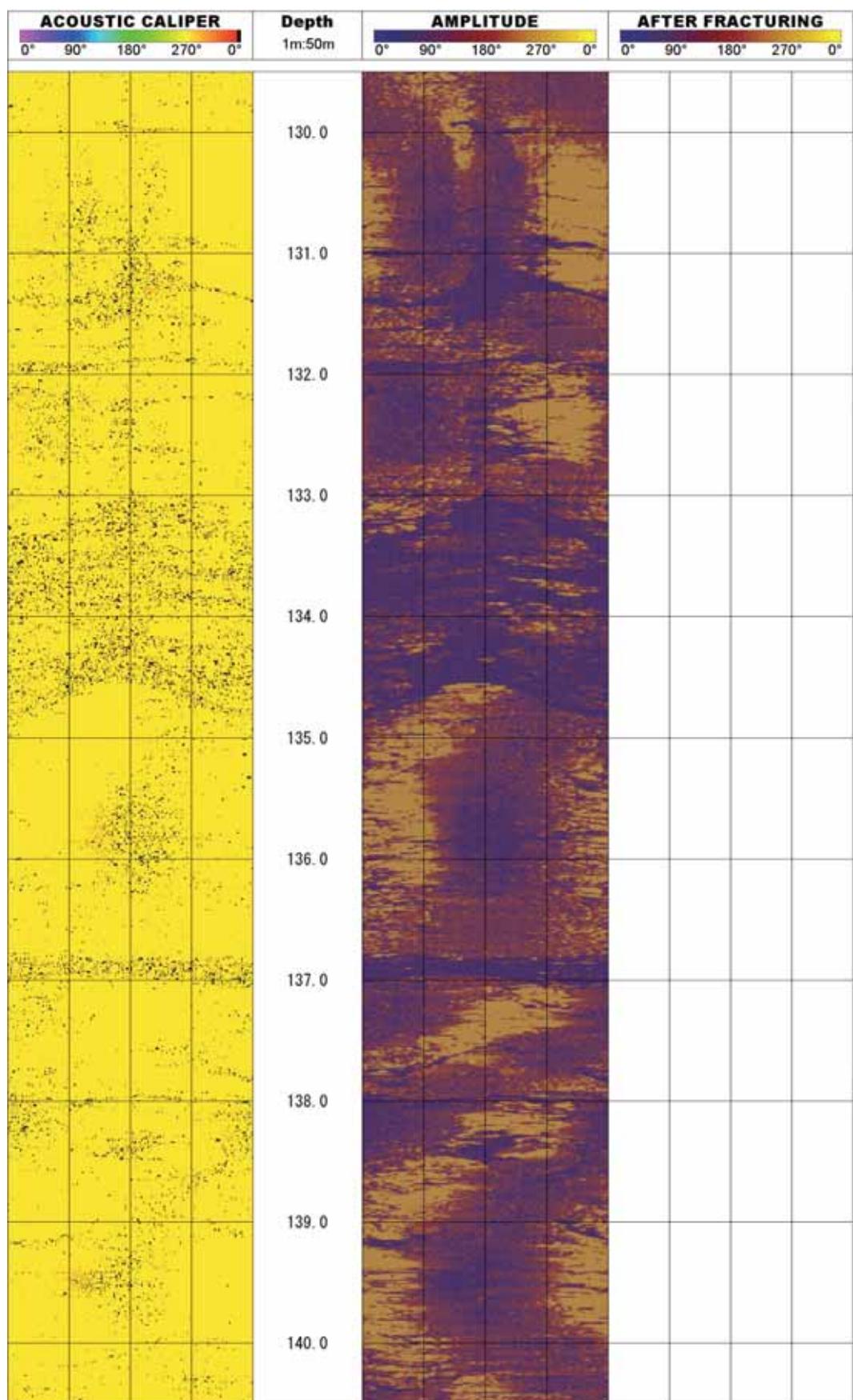
垂直孔 (vertical hole)



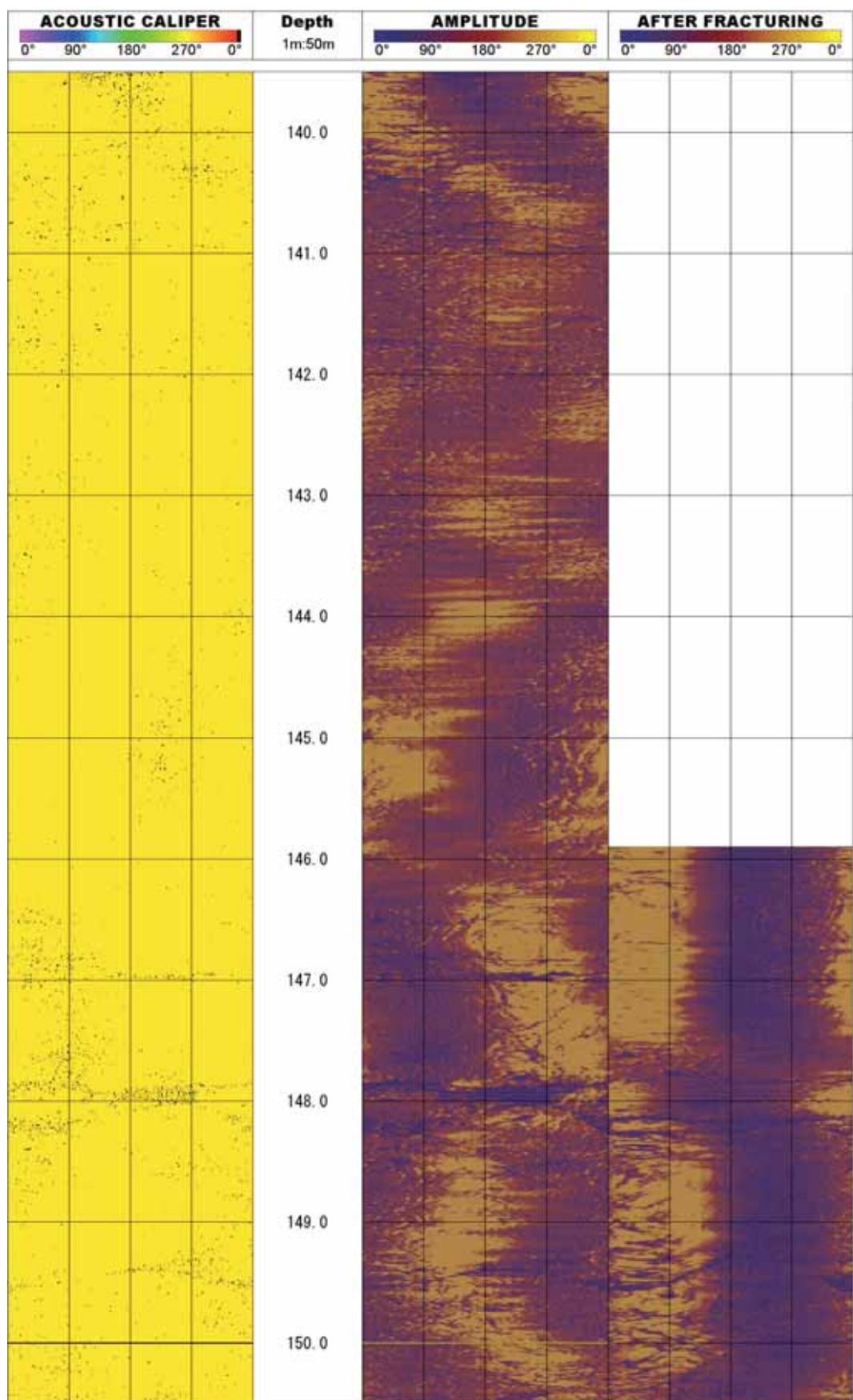
垂直孔 (vertical hole)



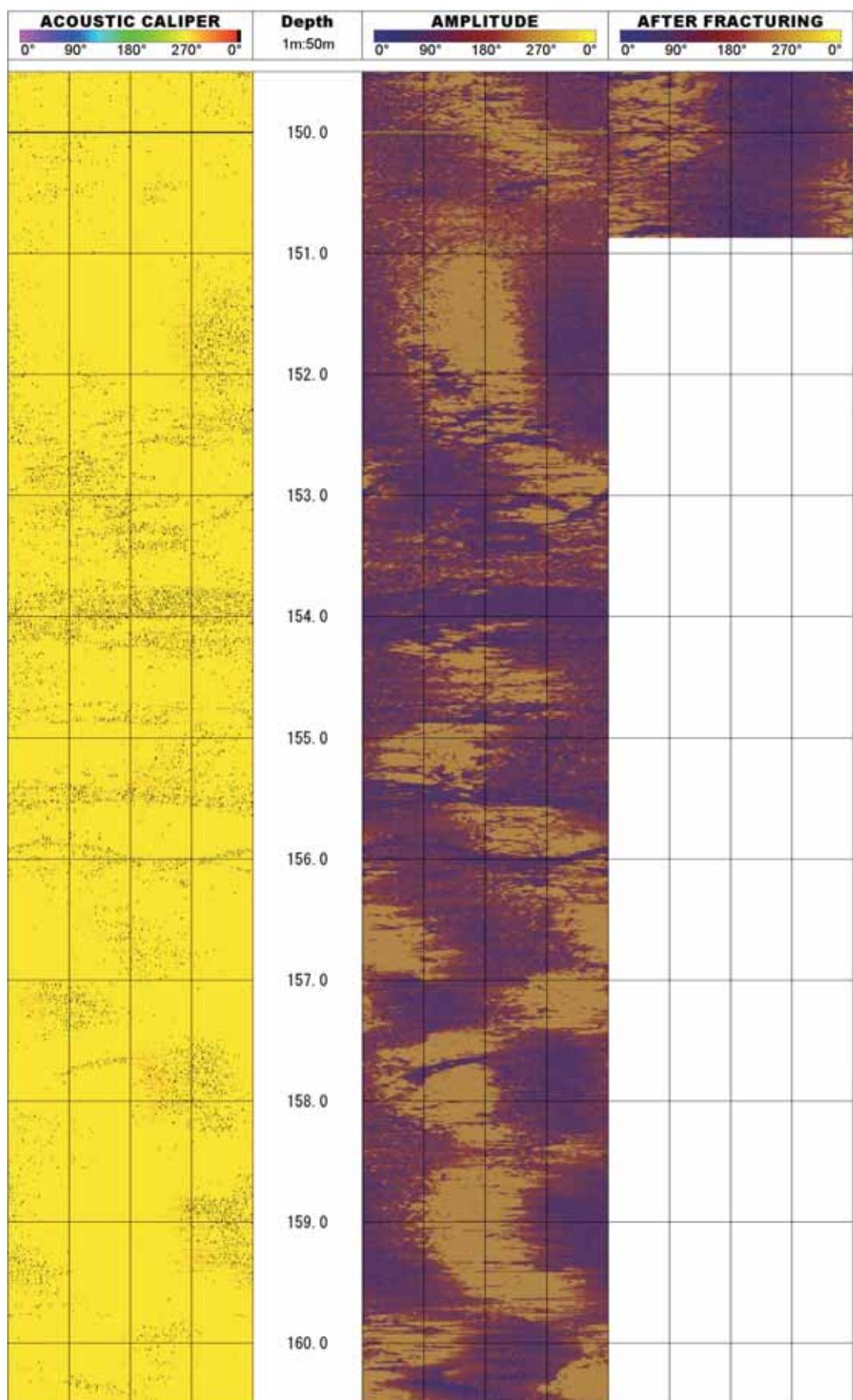
垂直孔 (vertical hole)



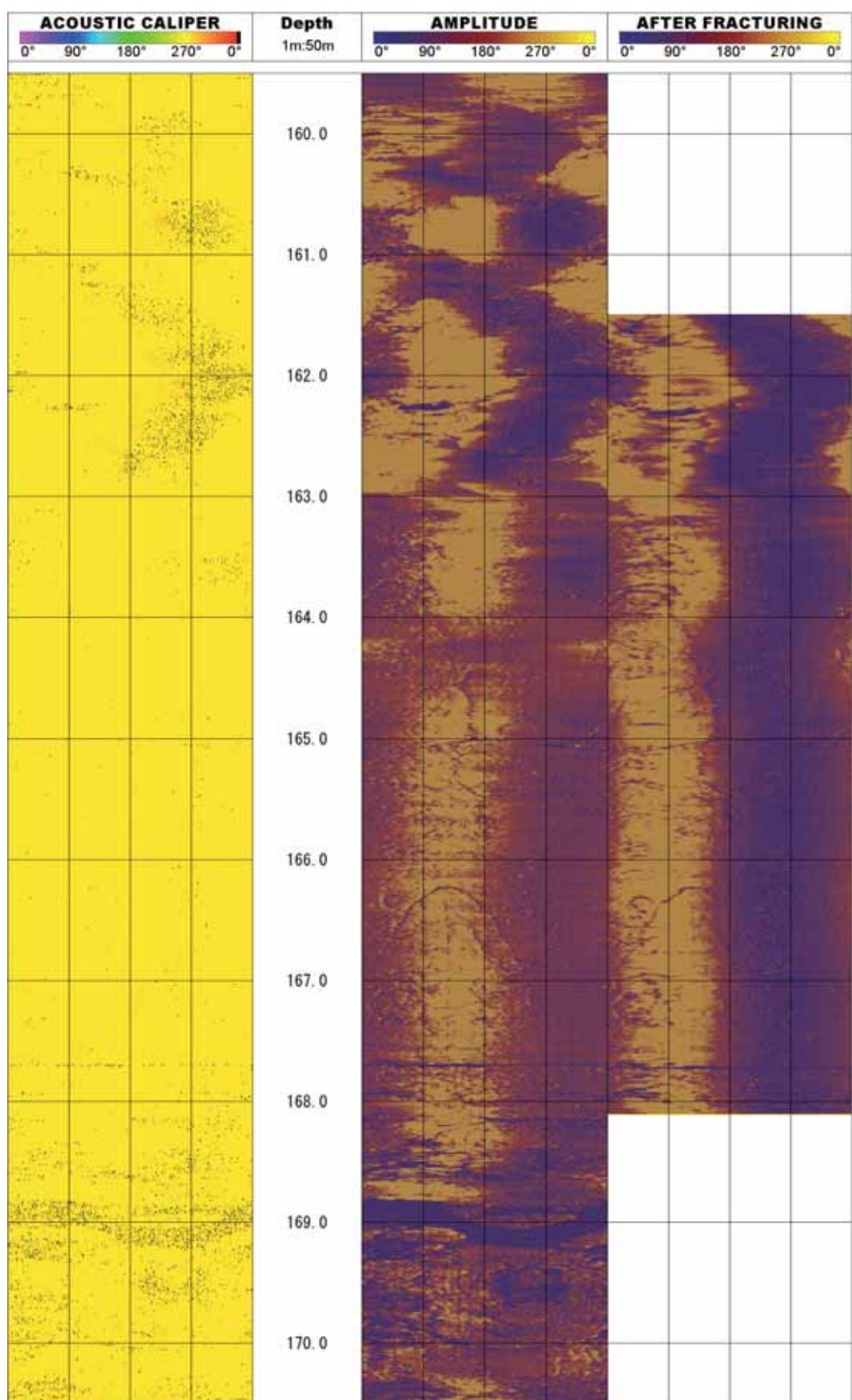
垂直孔 (vertical hole)



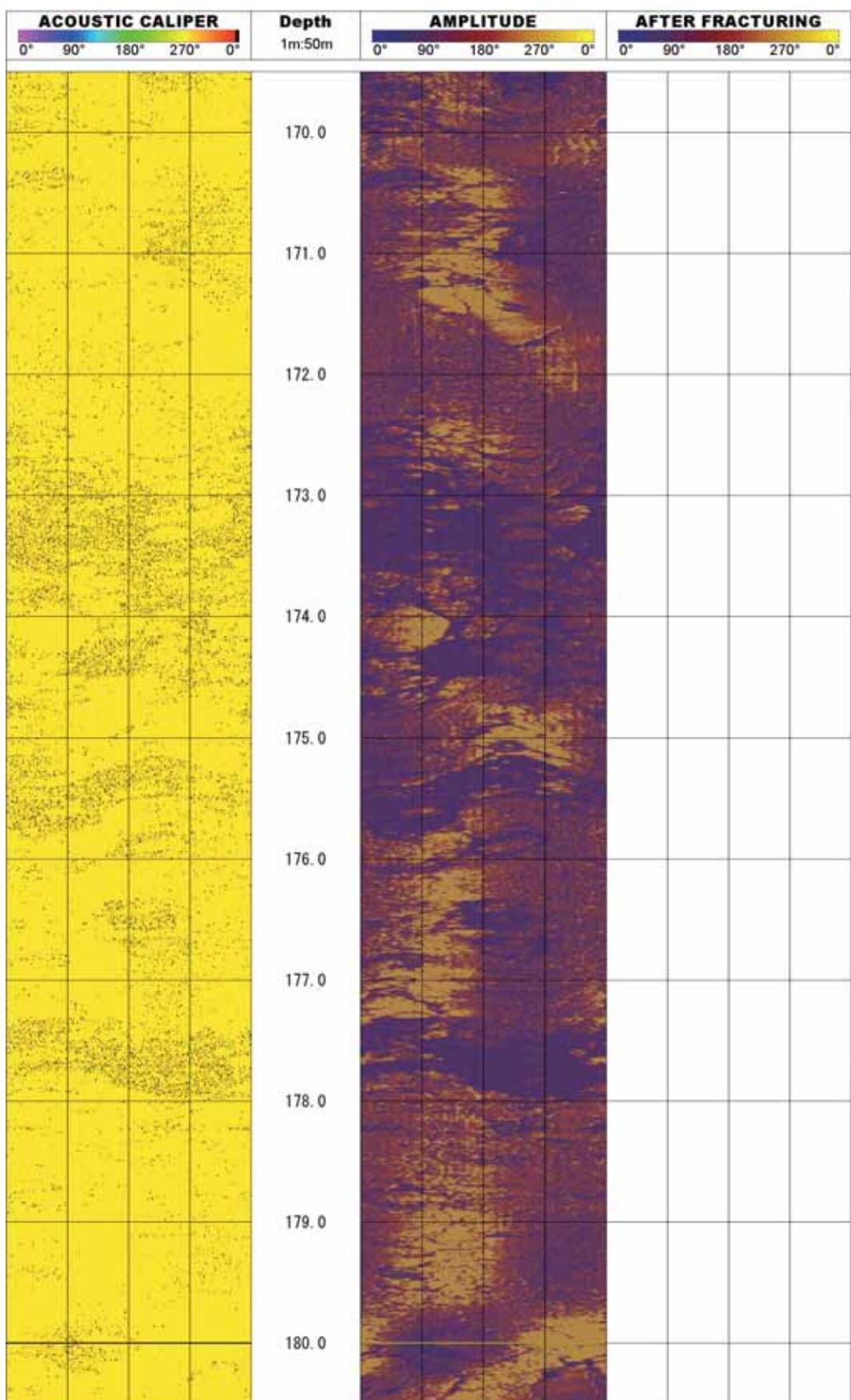
垂直孔 (vertical hole)



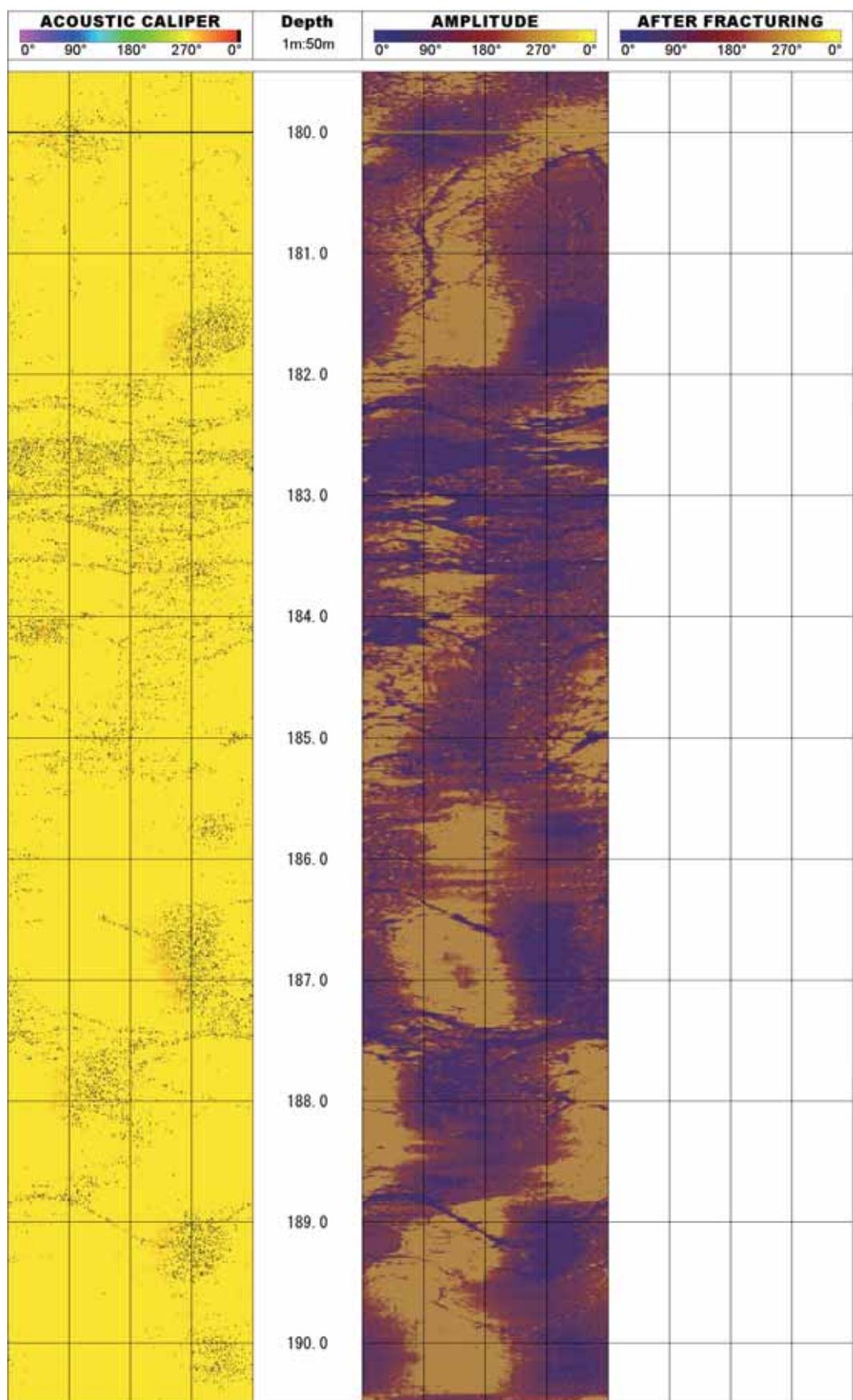
垂直孔 (vertical hole)



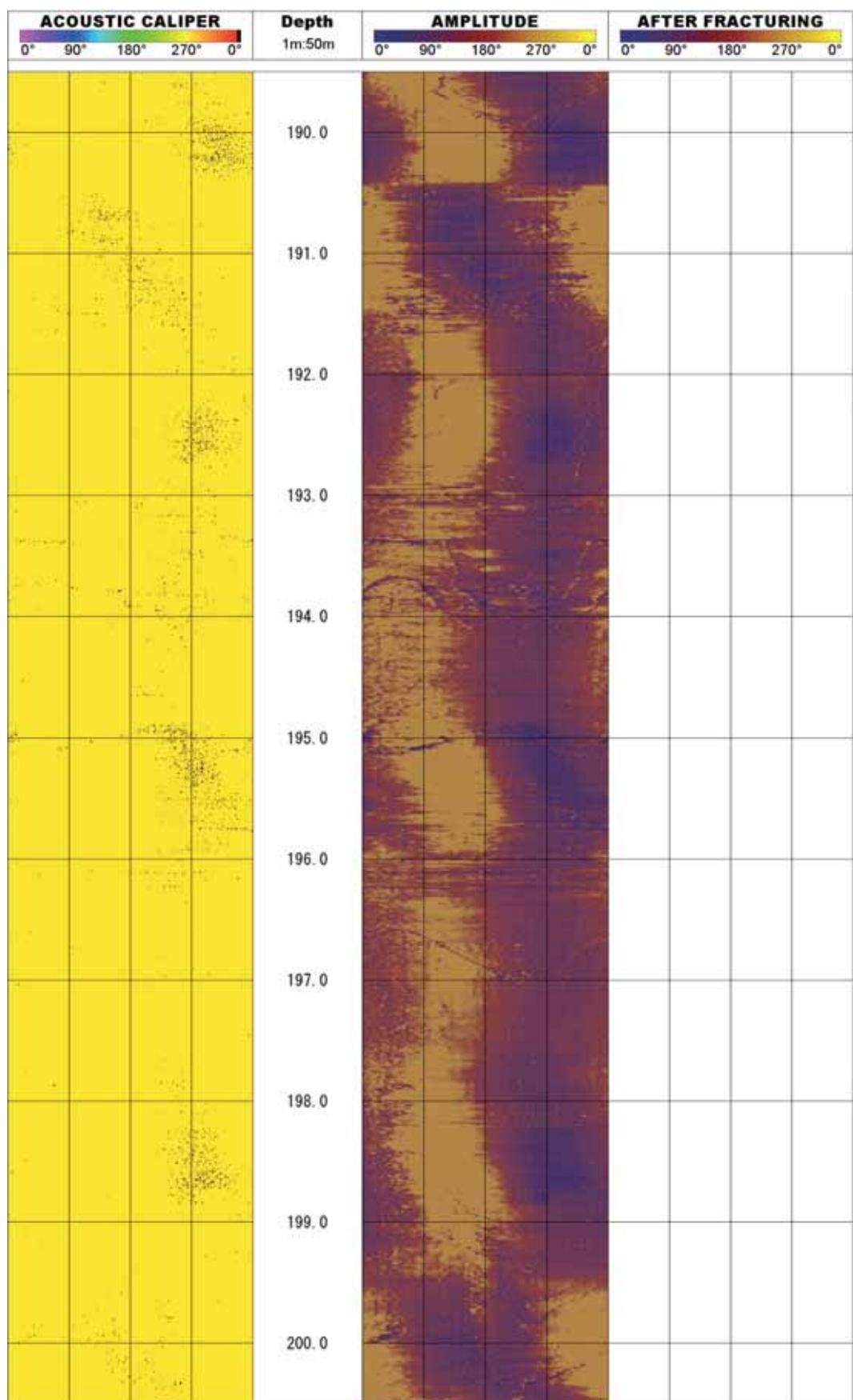
垂直孔 (vertical hole)



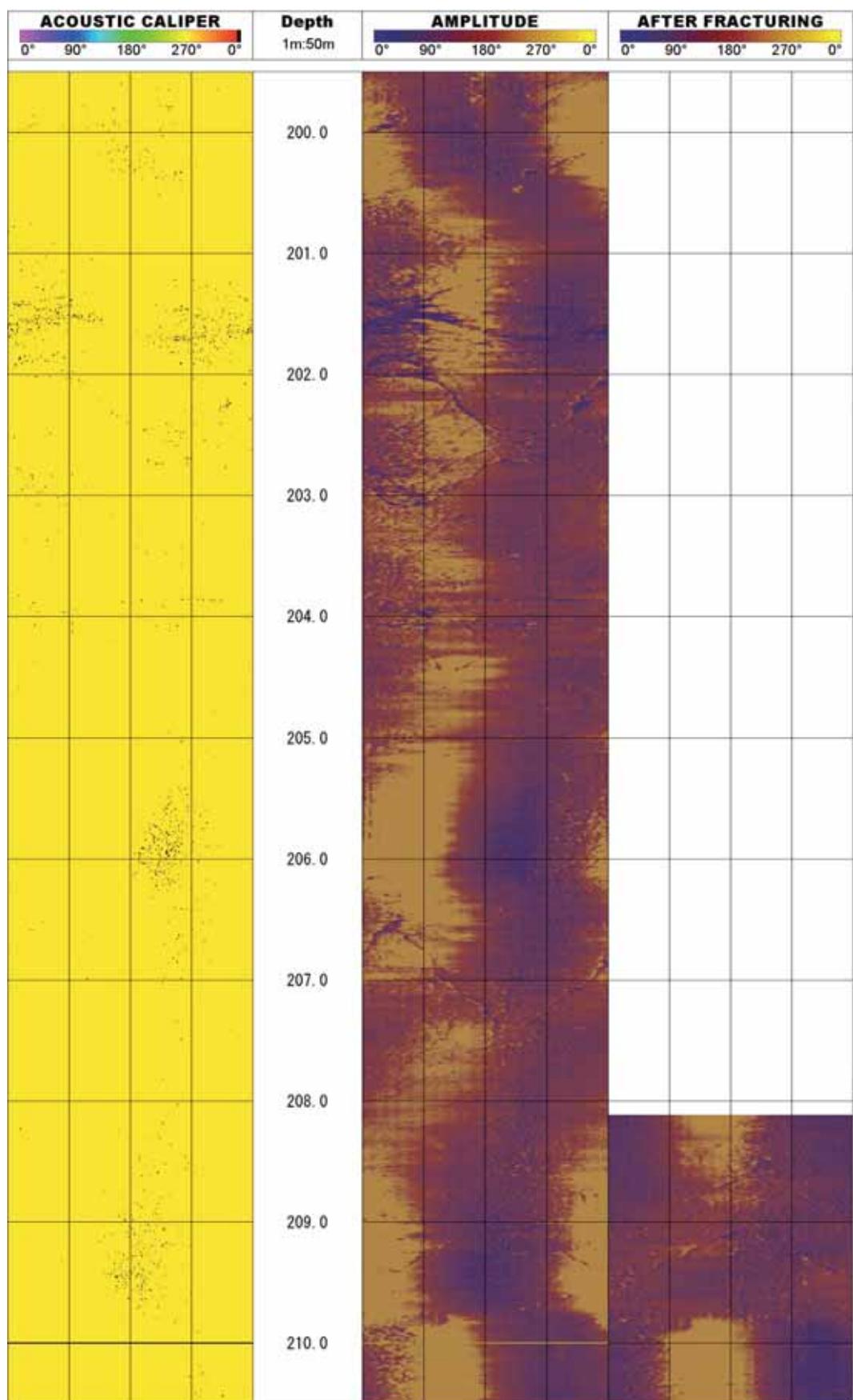
垂直孔 (vertical hole)



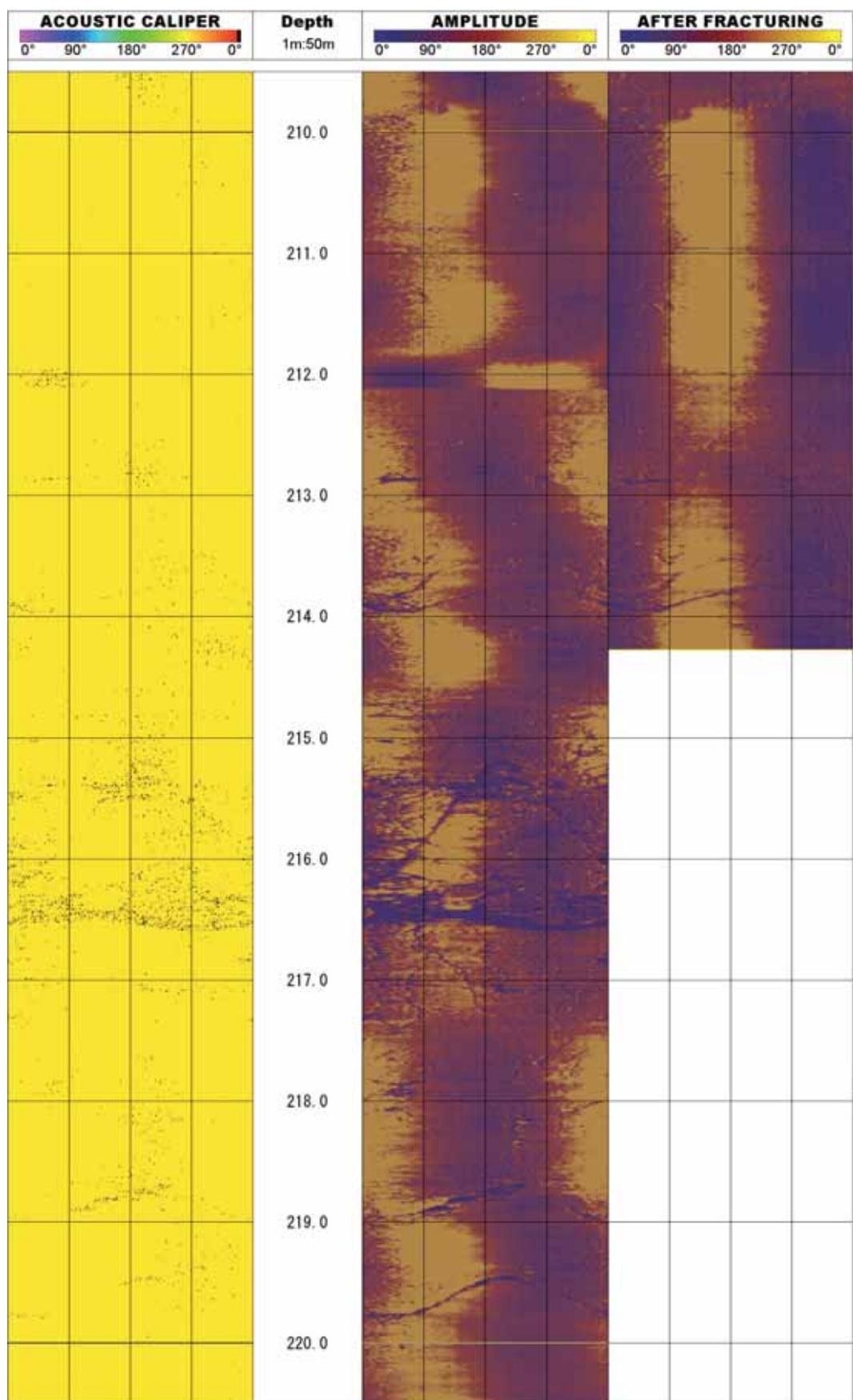
垂直孔 (vertical hole)



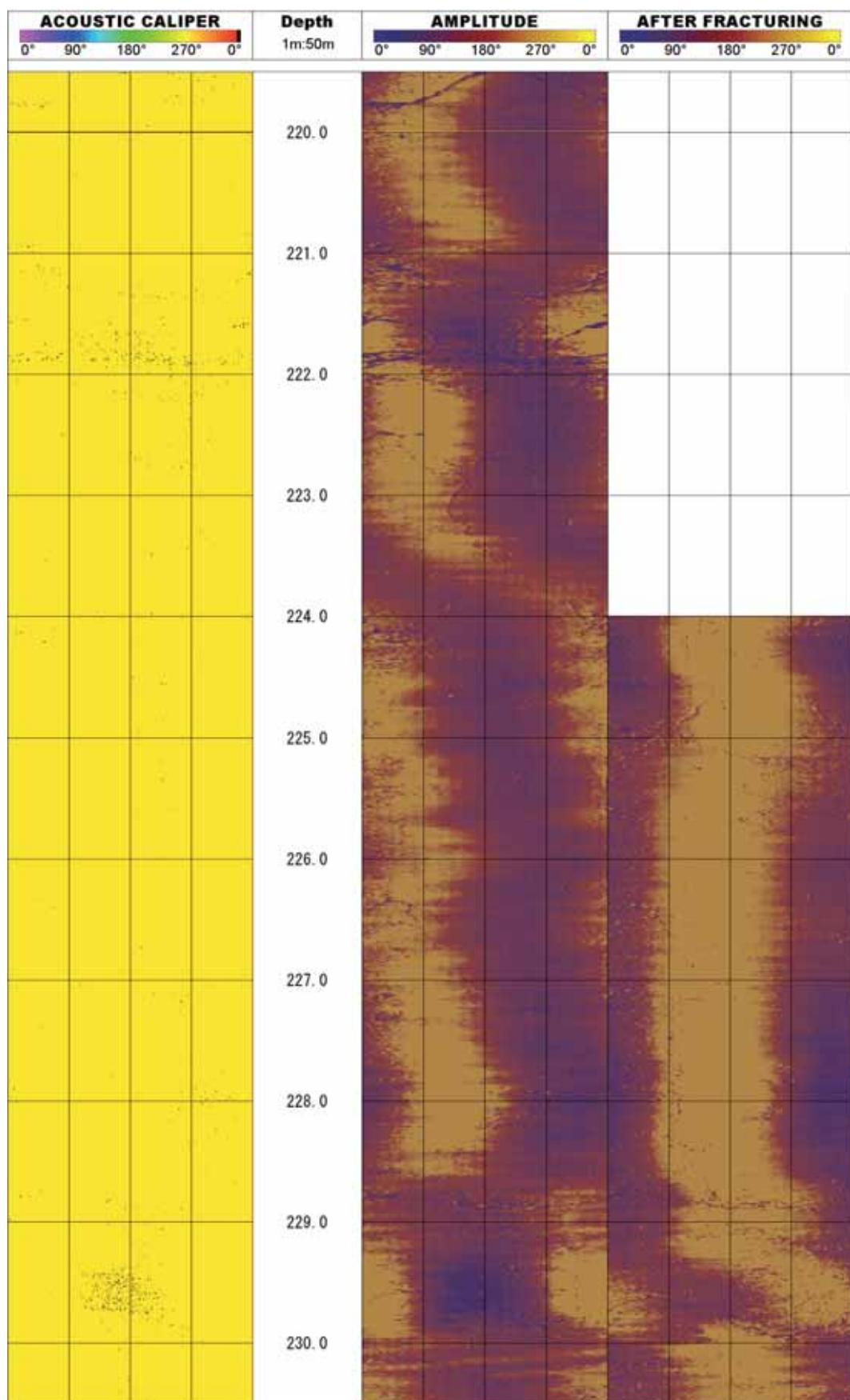
垂直孔 (vertical hole)



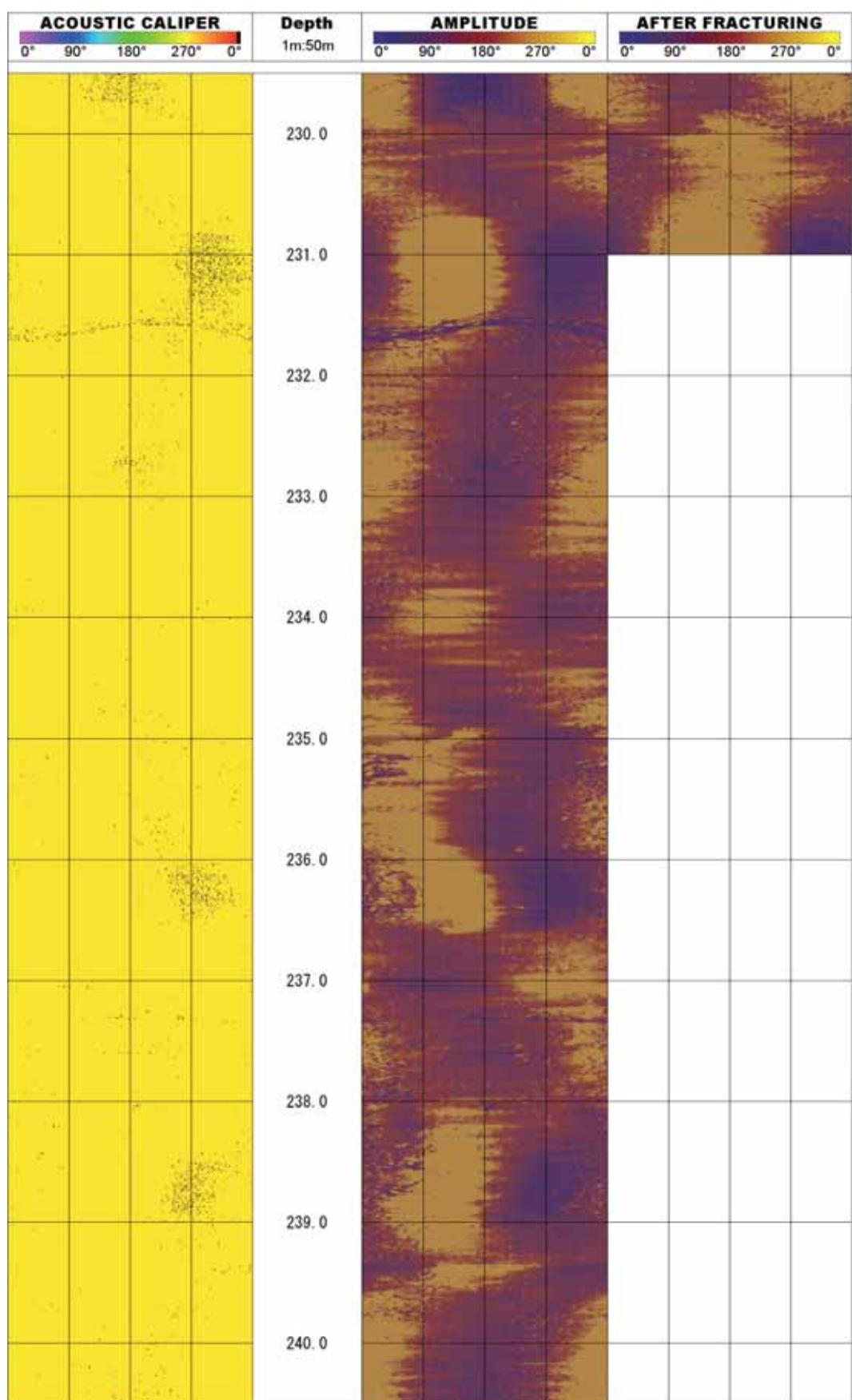
垂直孔 (vertical hole)



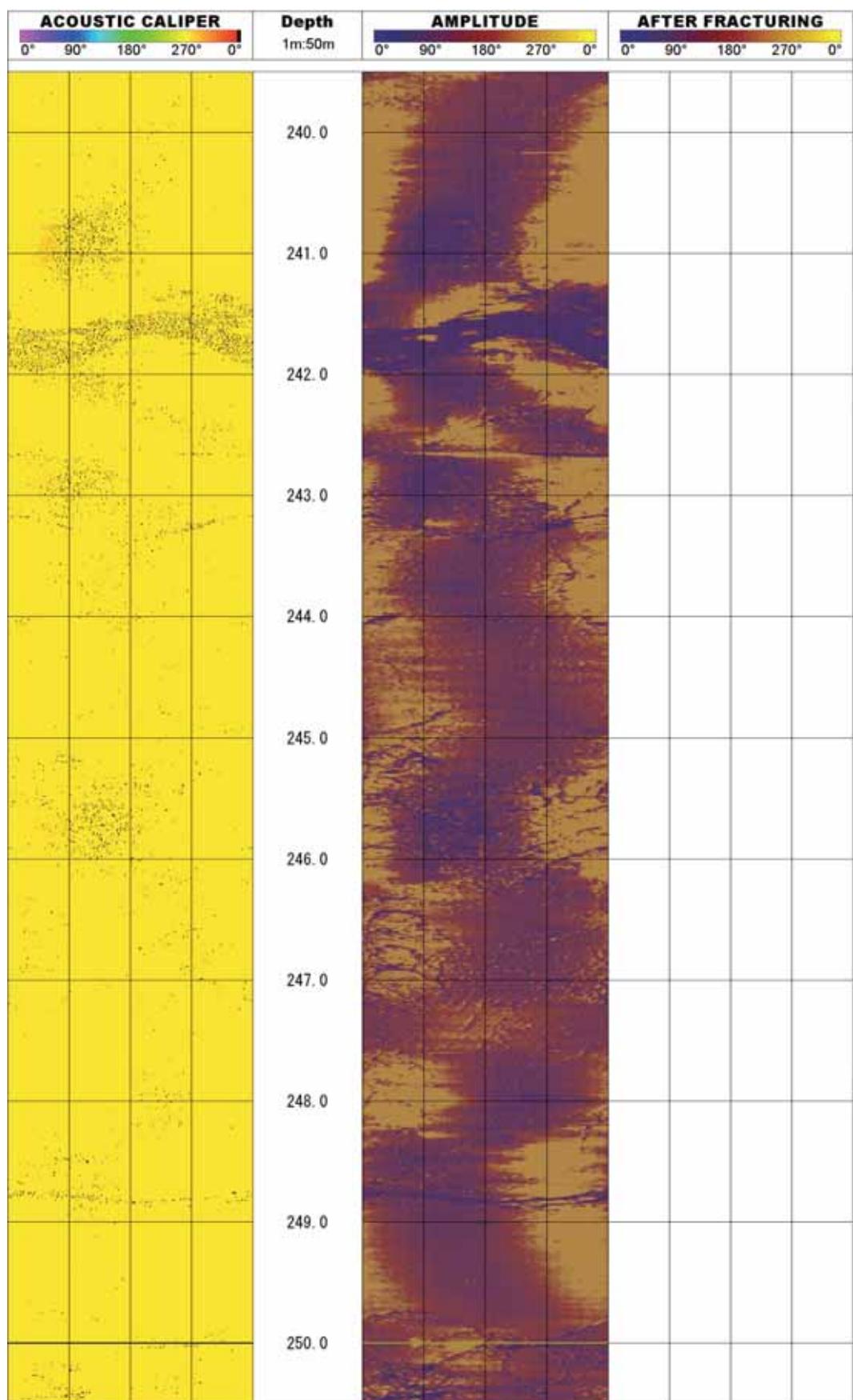
垂直孔 (vertical hole)



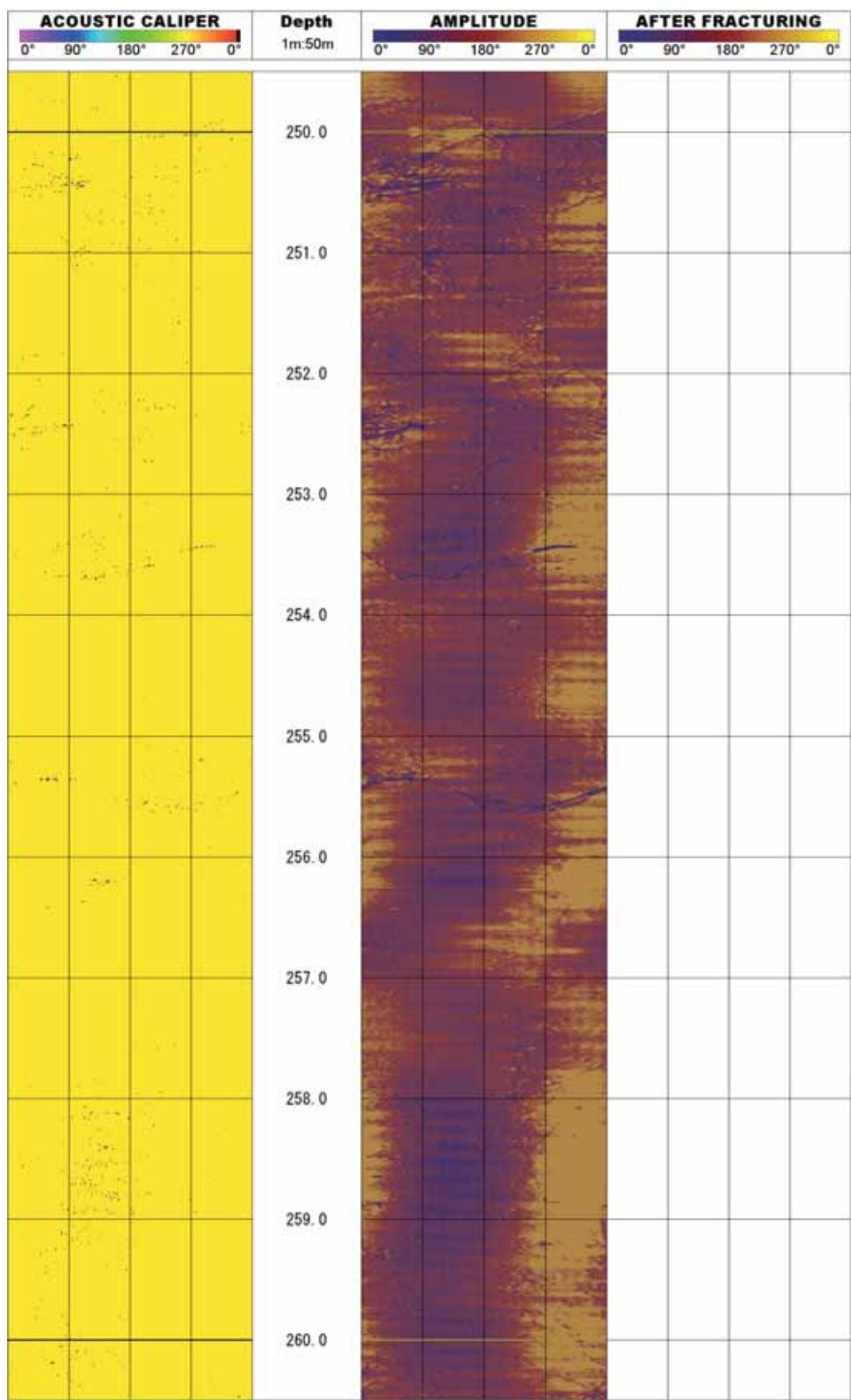
垂直孔 (vertical hole)



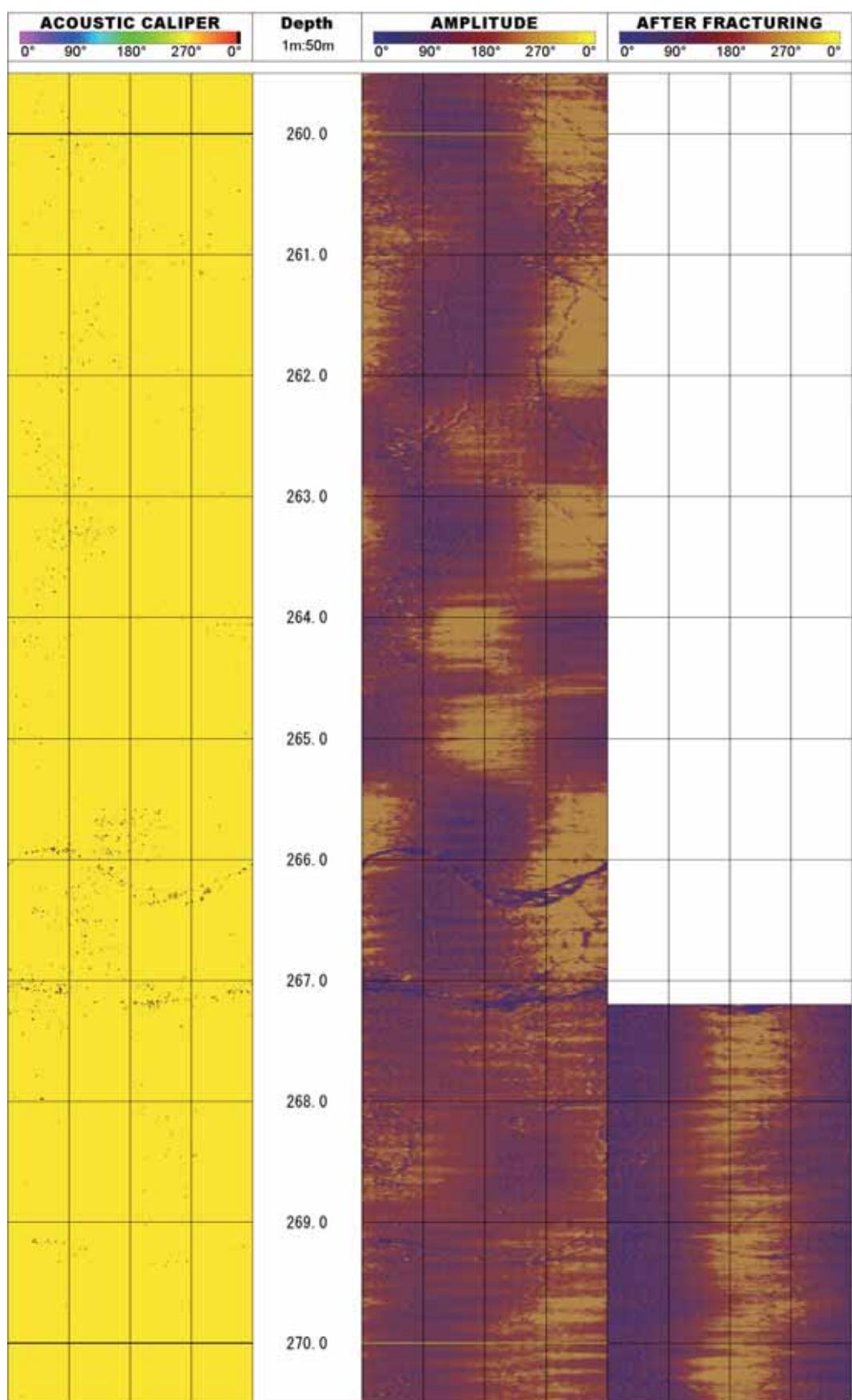
垂直孔 (vertical hole)



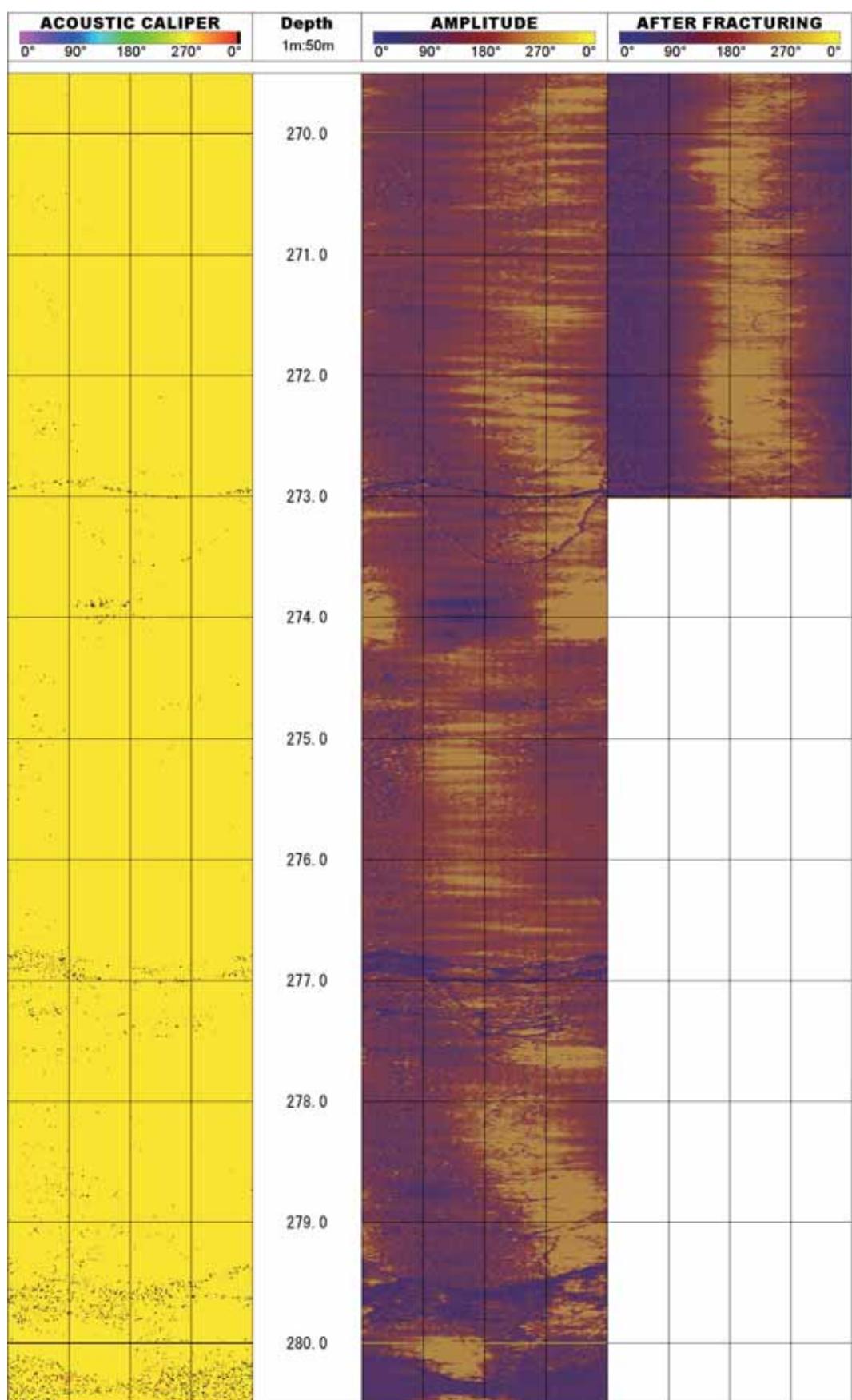
垂直孔 (vertical hole)



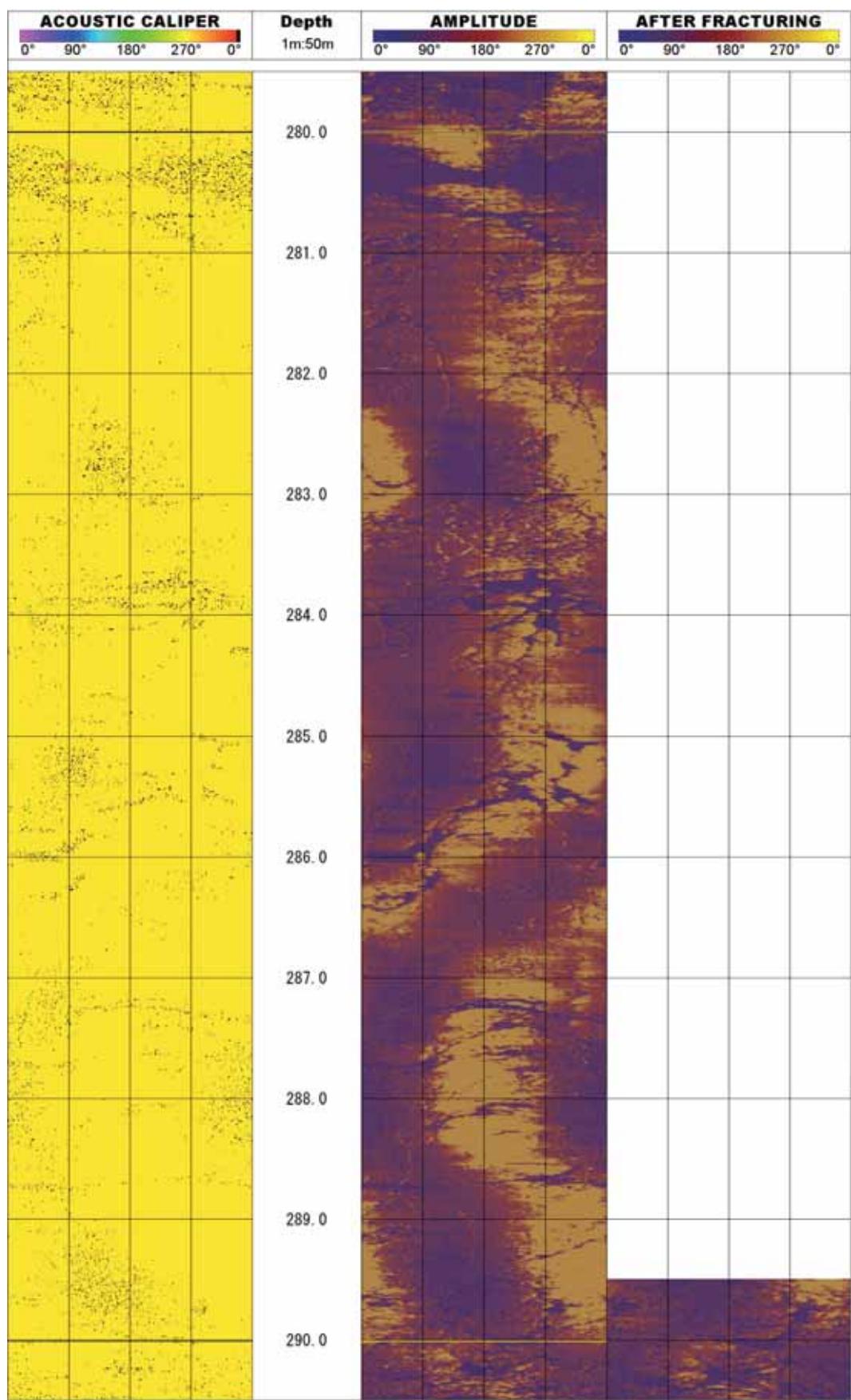
垂直孔 (vertical hole)



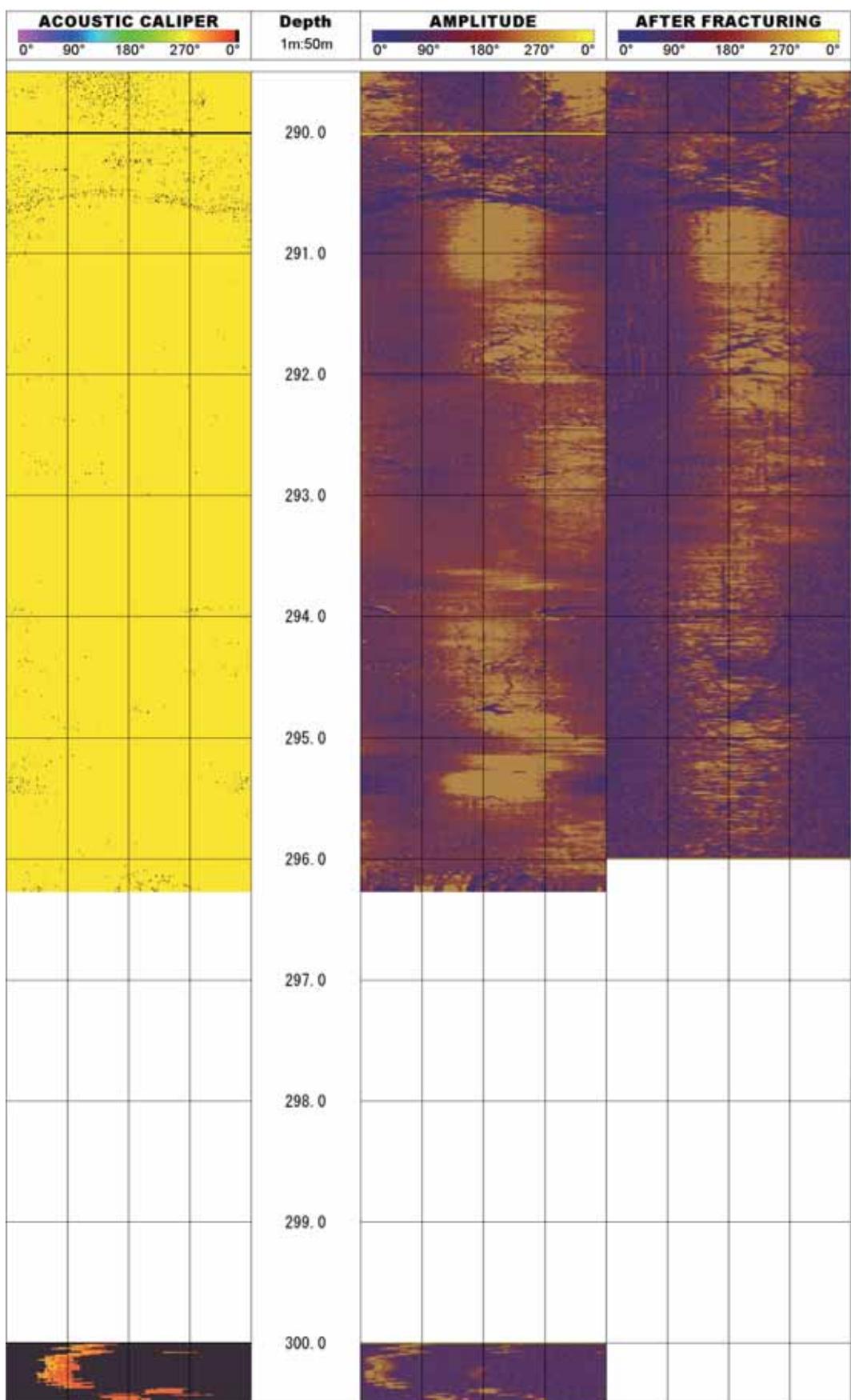
垂直孔 (vertical hole)



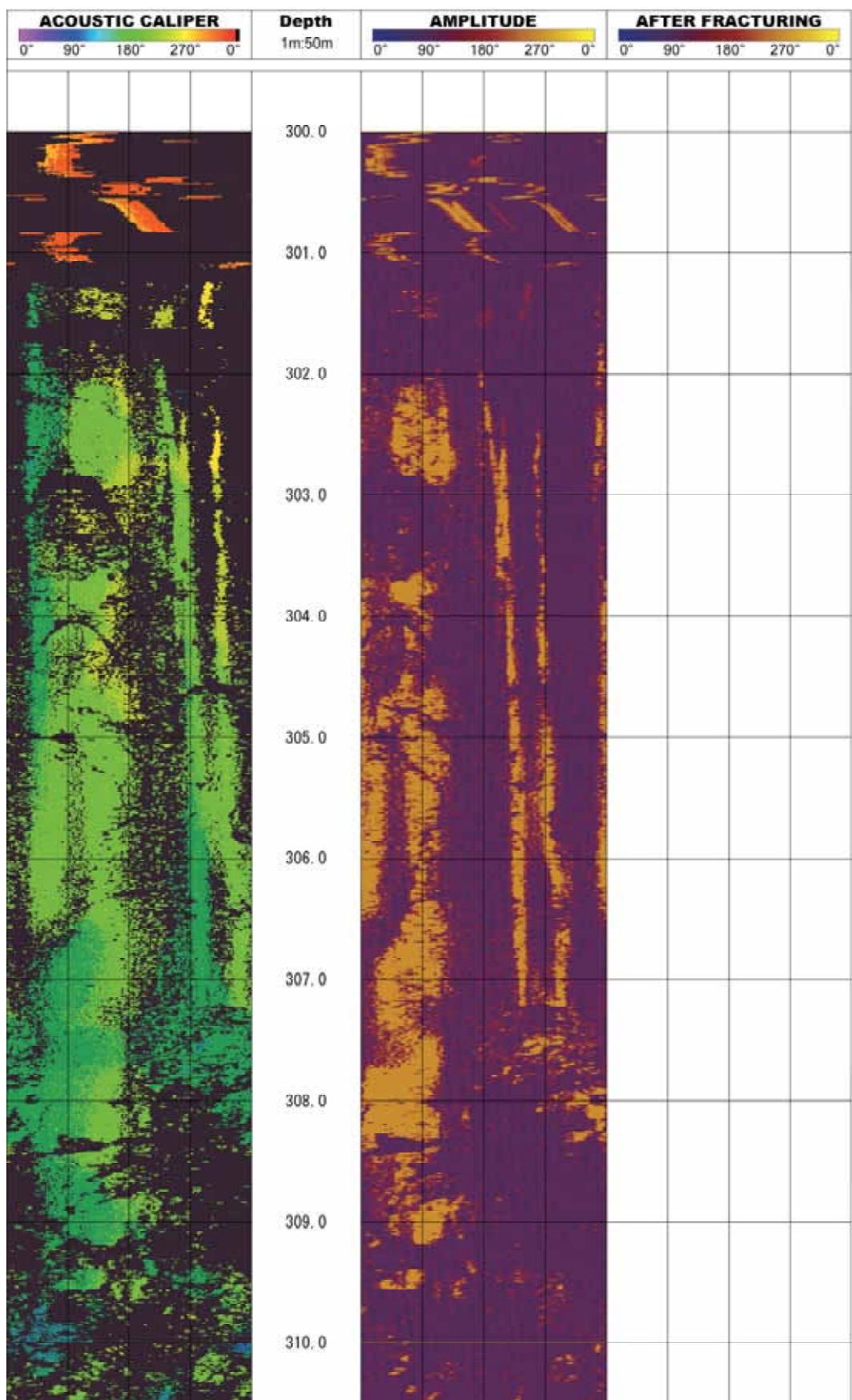
垂直孔 (vertical hole)



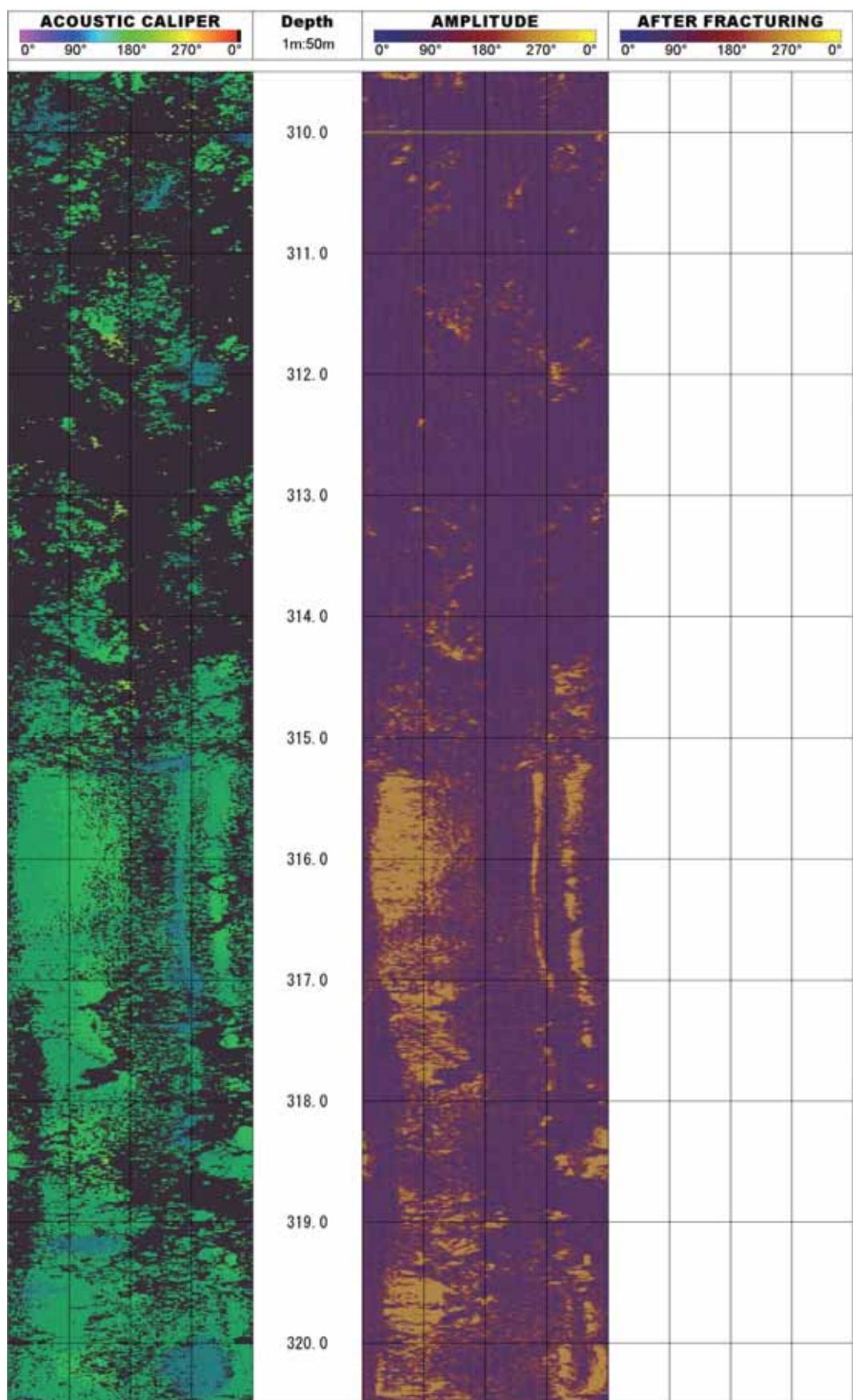
垂直孔 (vertical hole)



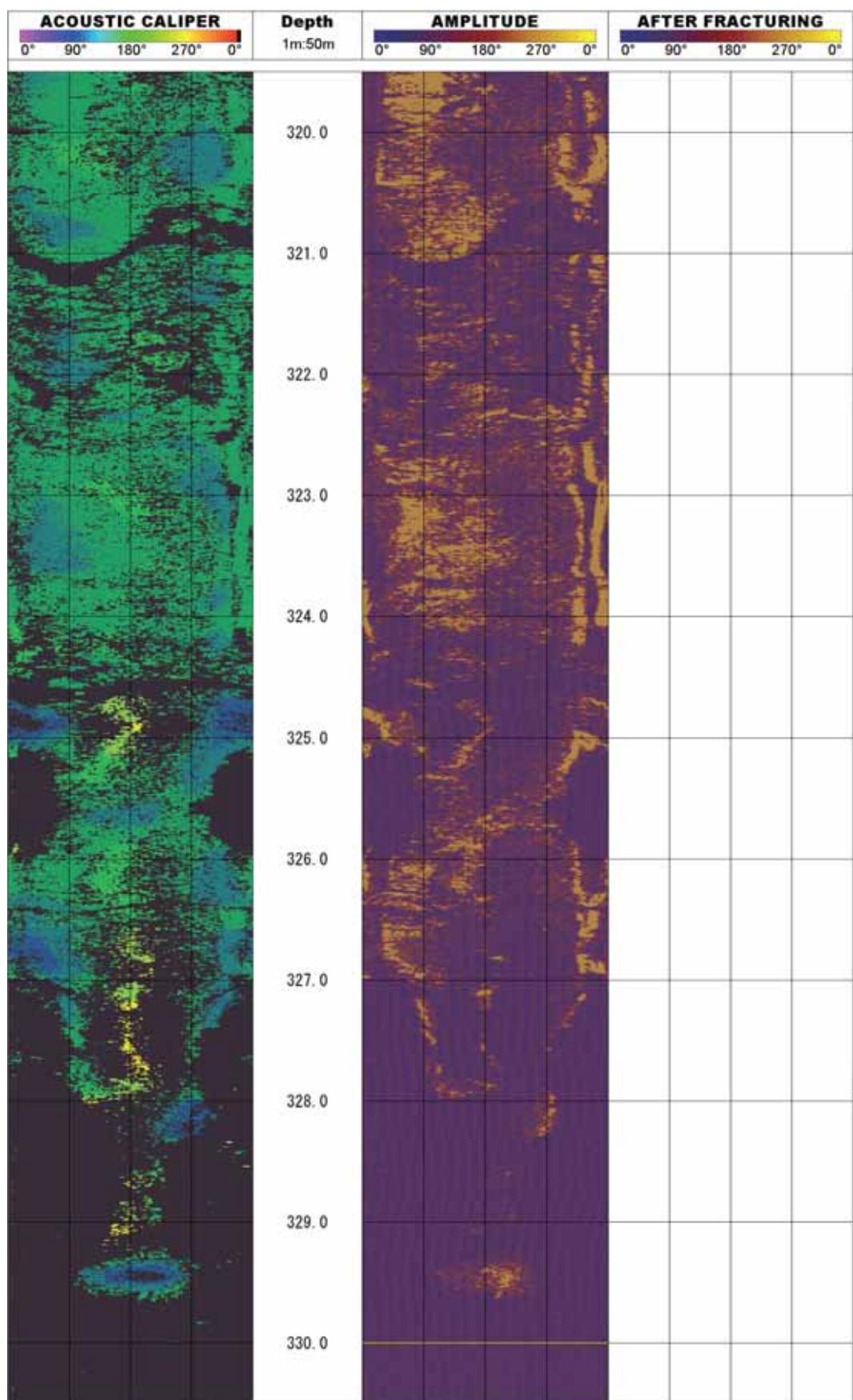
垂直孔 (vertical hole)



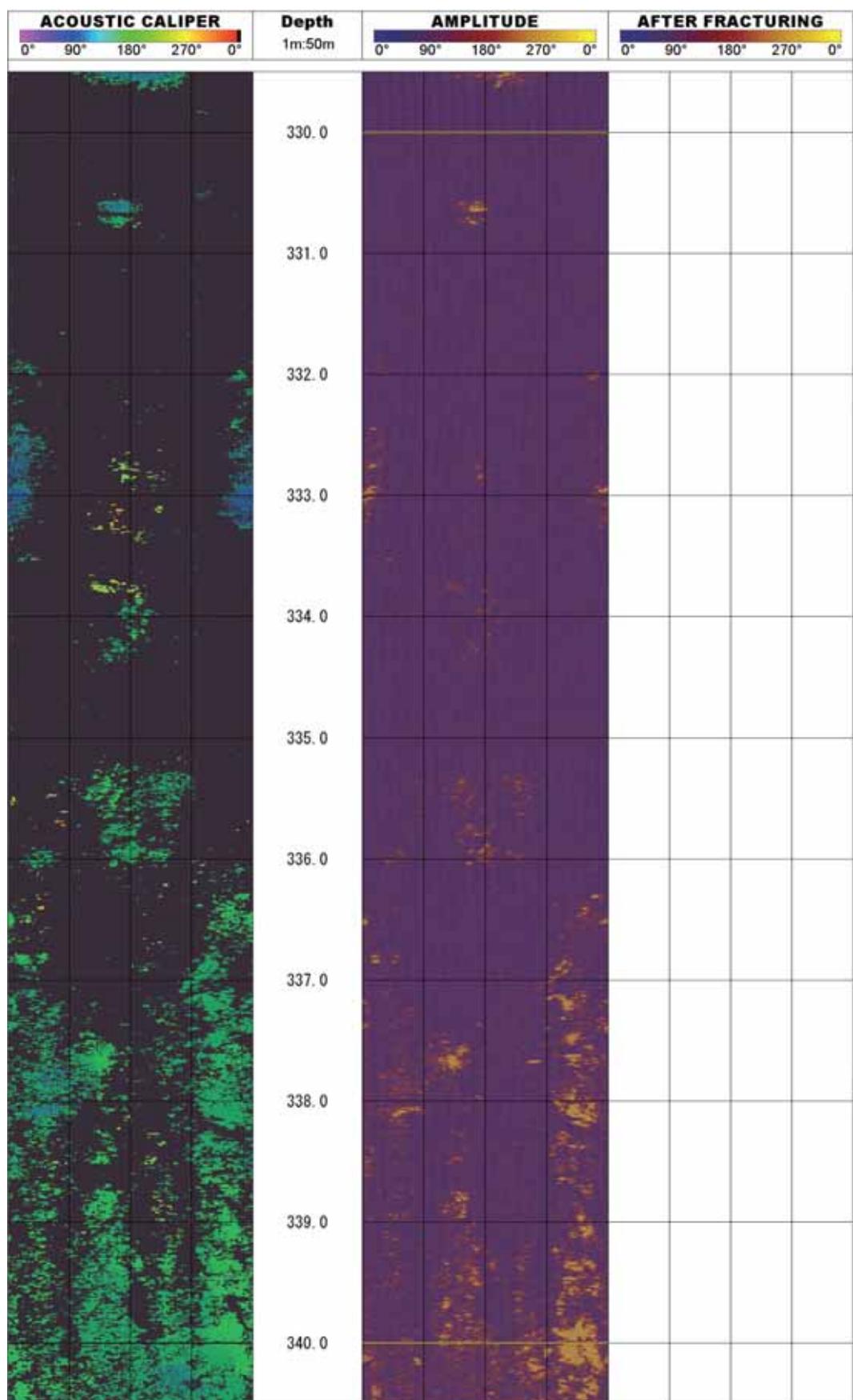
垂直孔 (vertical hole)



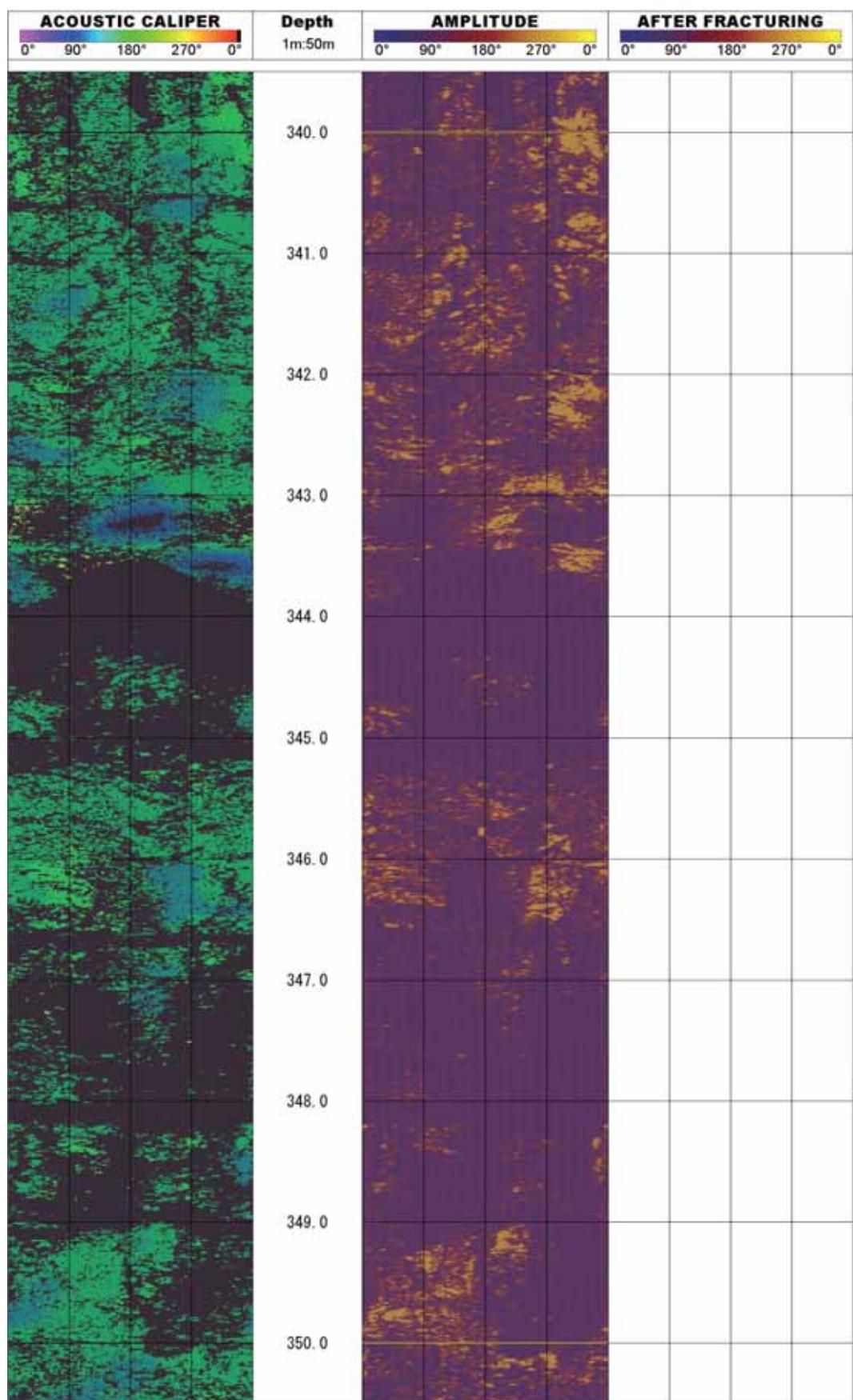
垂直孔 (vertical hole)



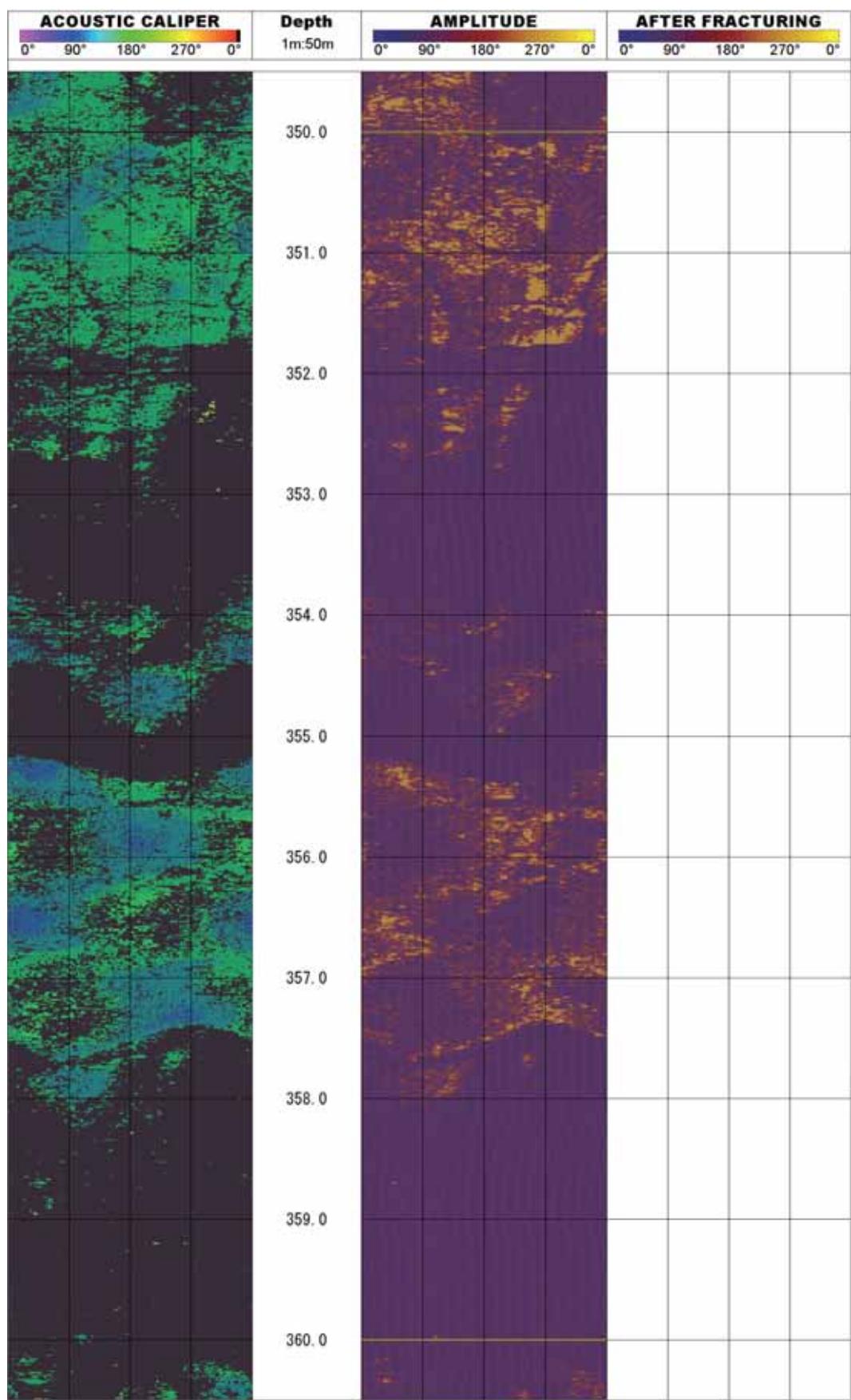
垂直孔 (vertical hole)



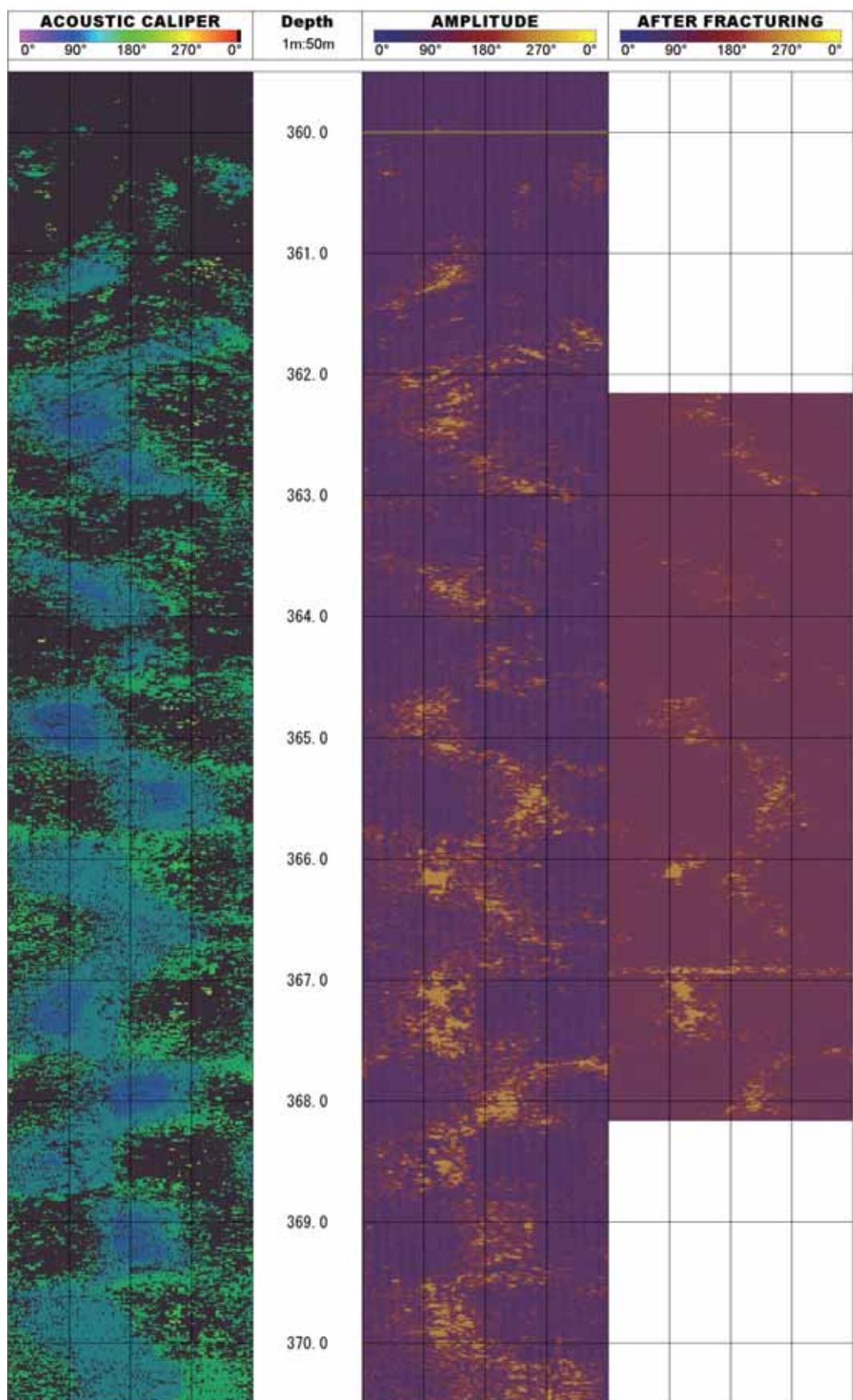
垂直孔 (vertical hole)



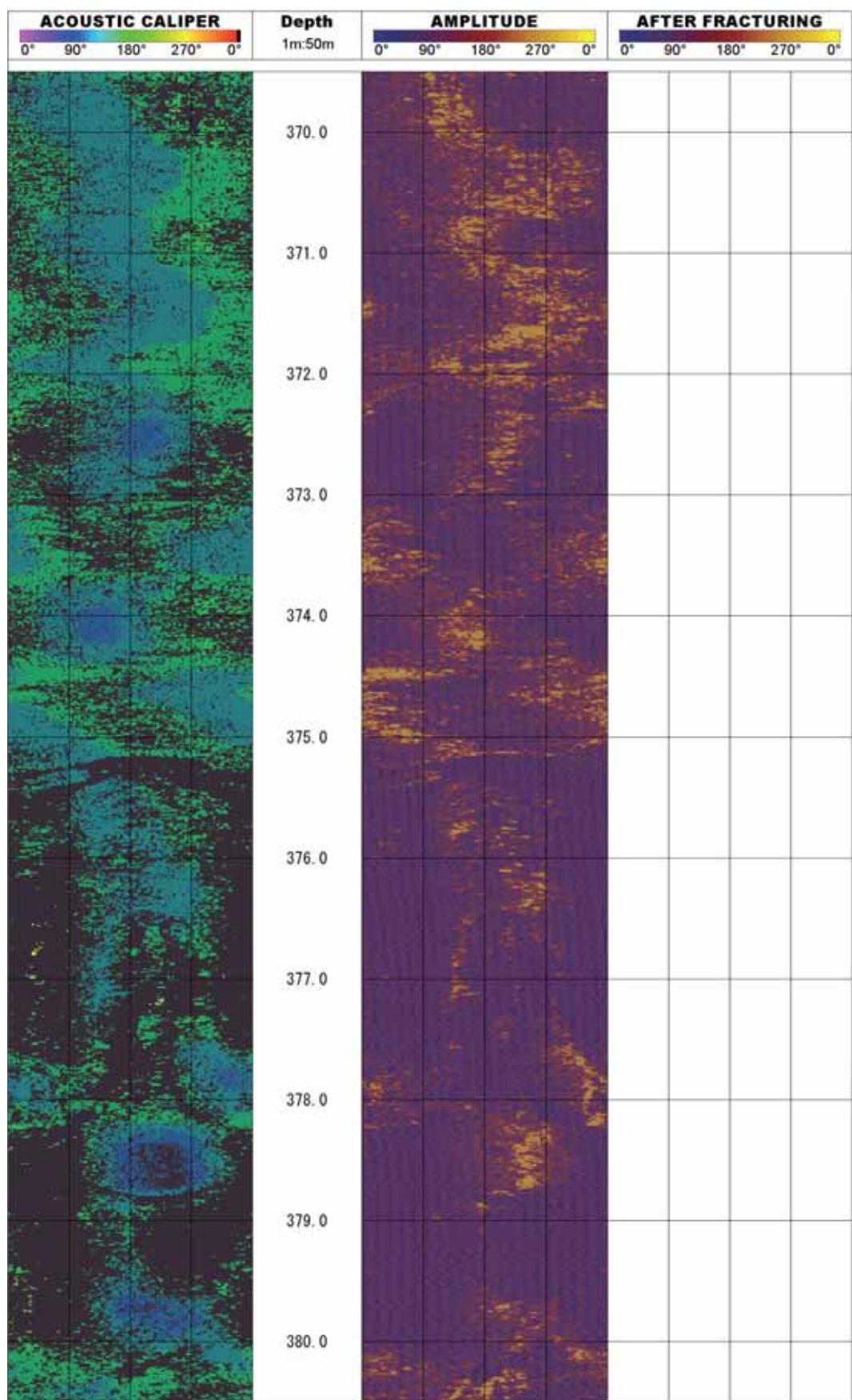
垂直孔 (vertical hole)



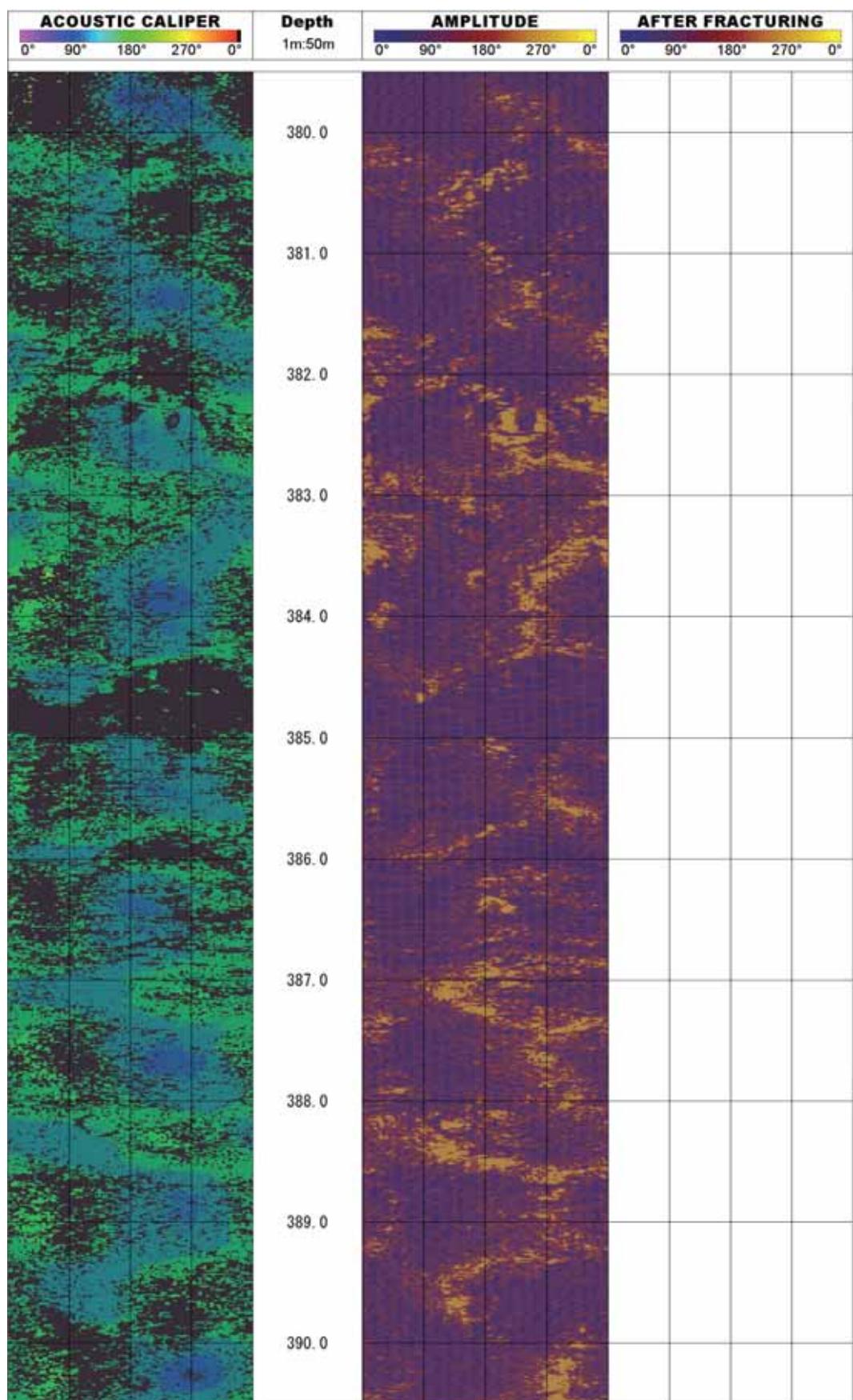
垂直孔 (vertical hole)



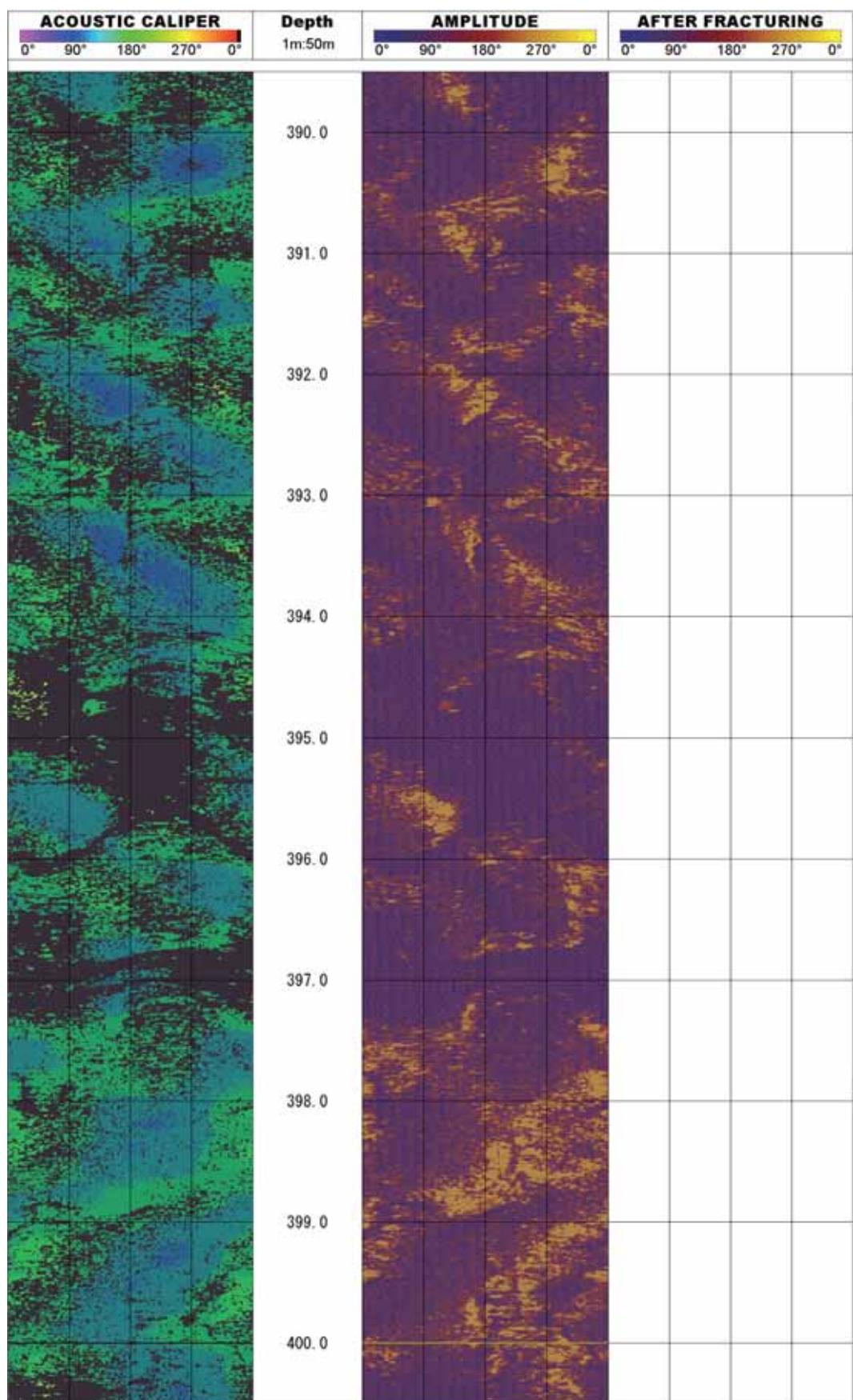
垂直孔 (vertical hole)



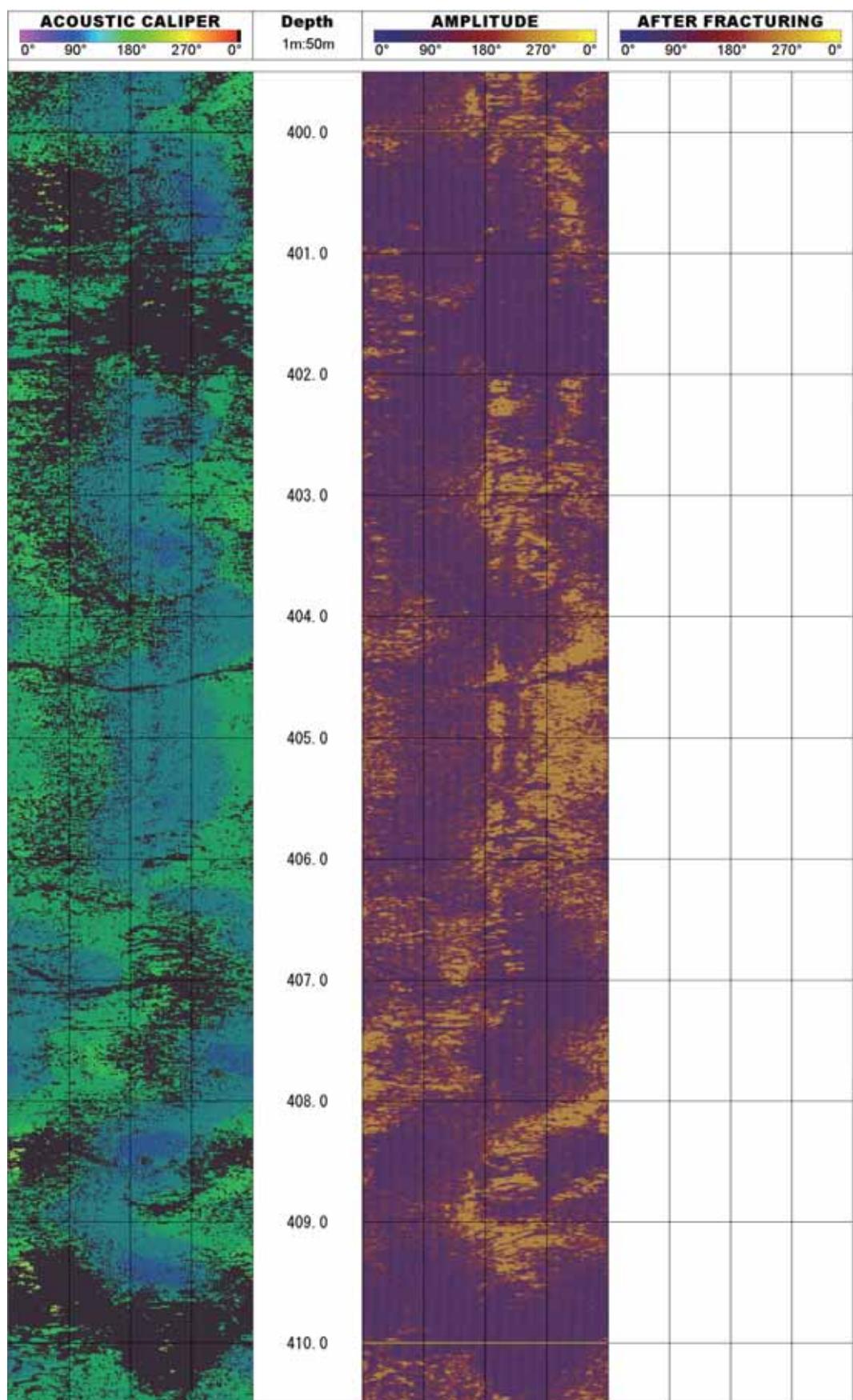
垂直孔 (vertical hole)



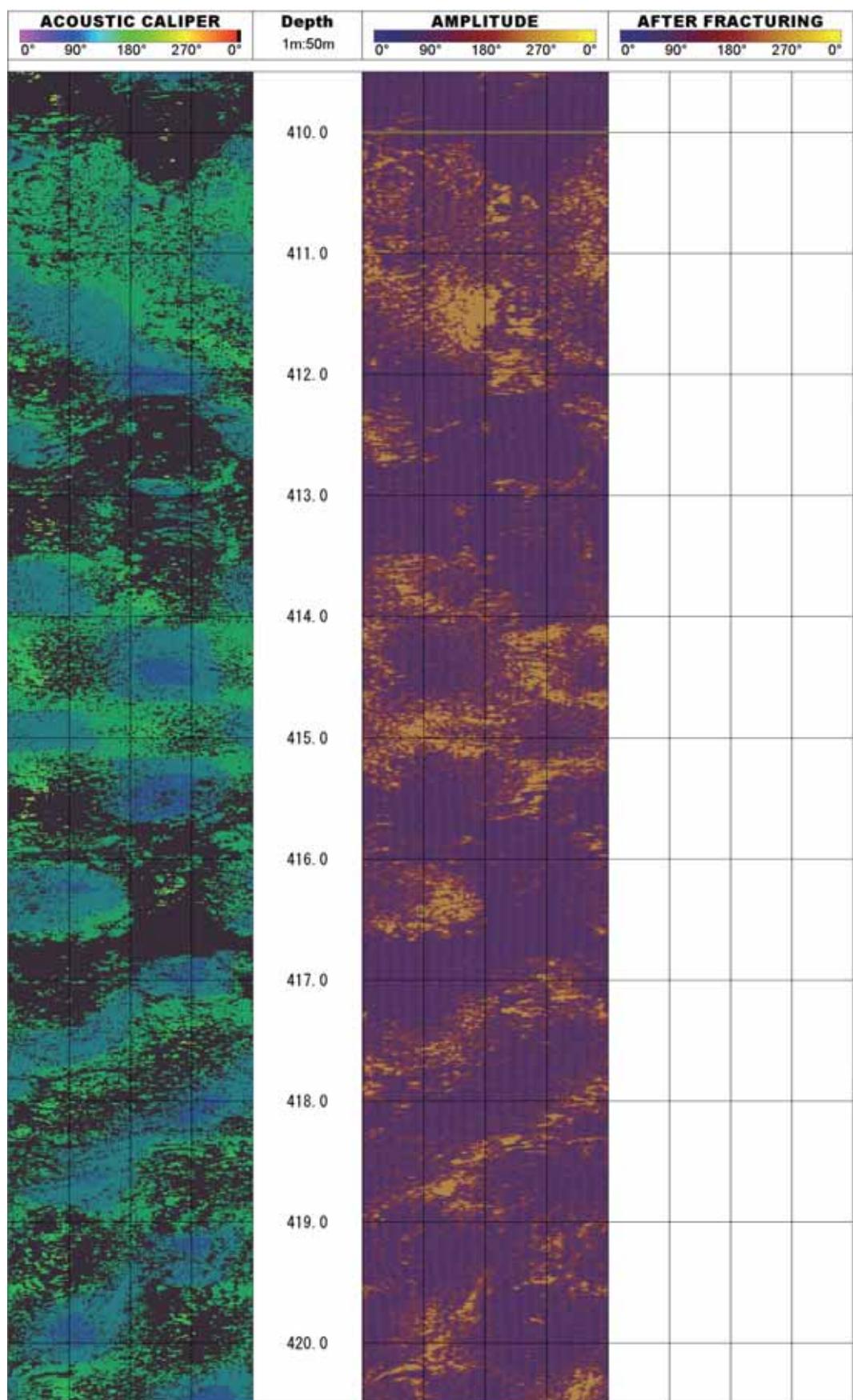
垂直孔 (vertical hole)



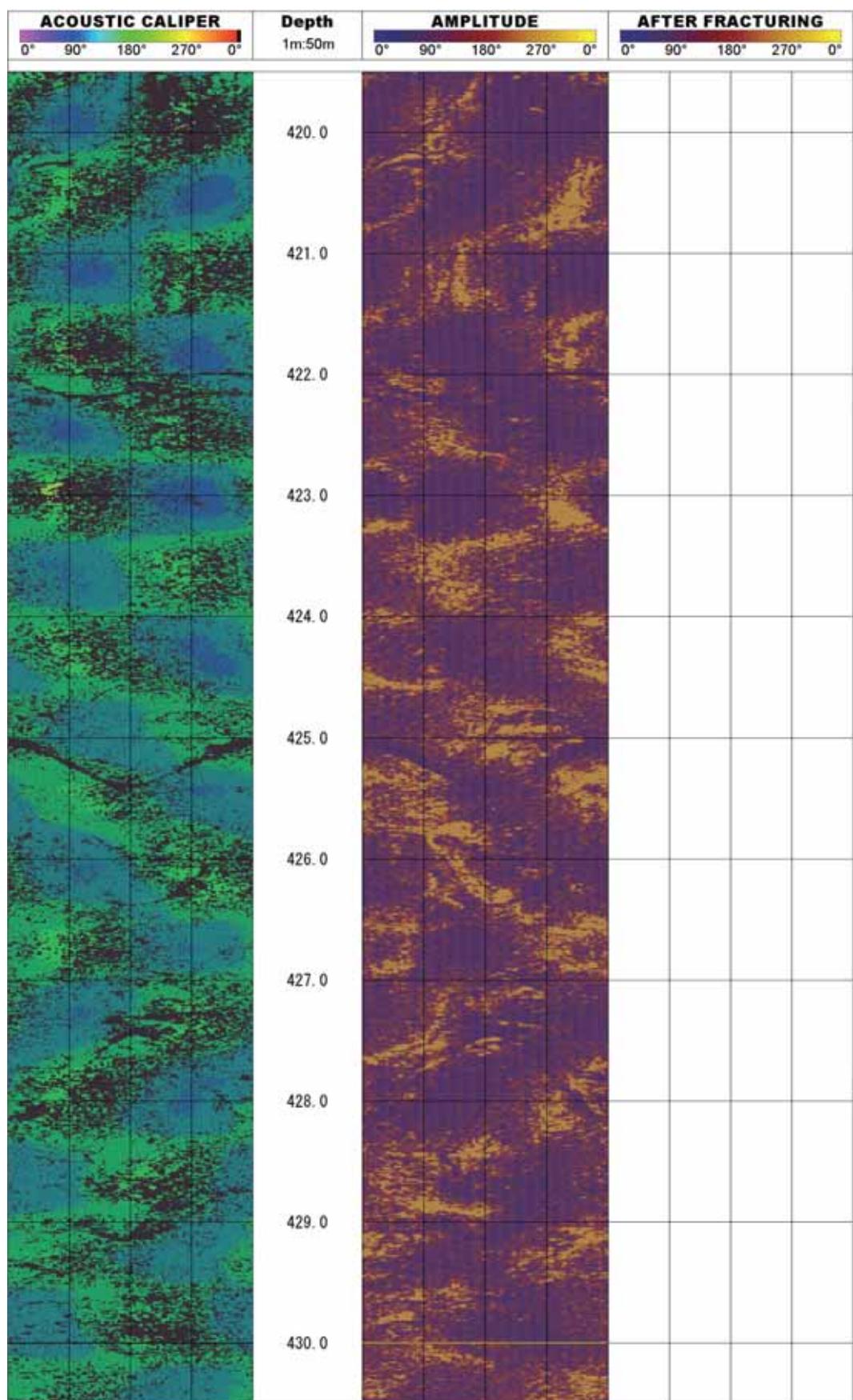
垂直孔 (vertical hole)



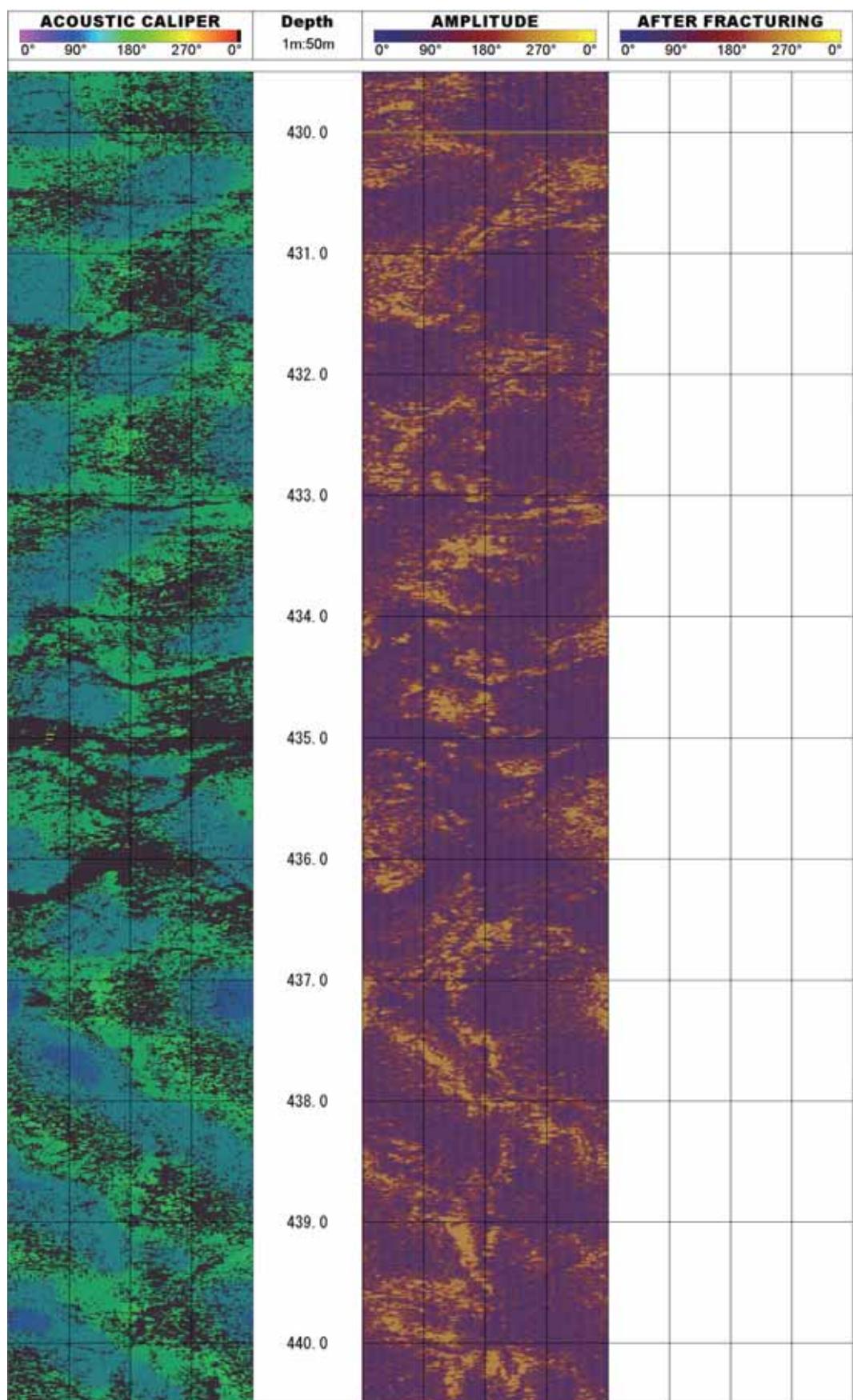
垂直孔 (vertical hole)



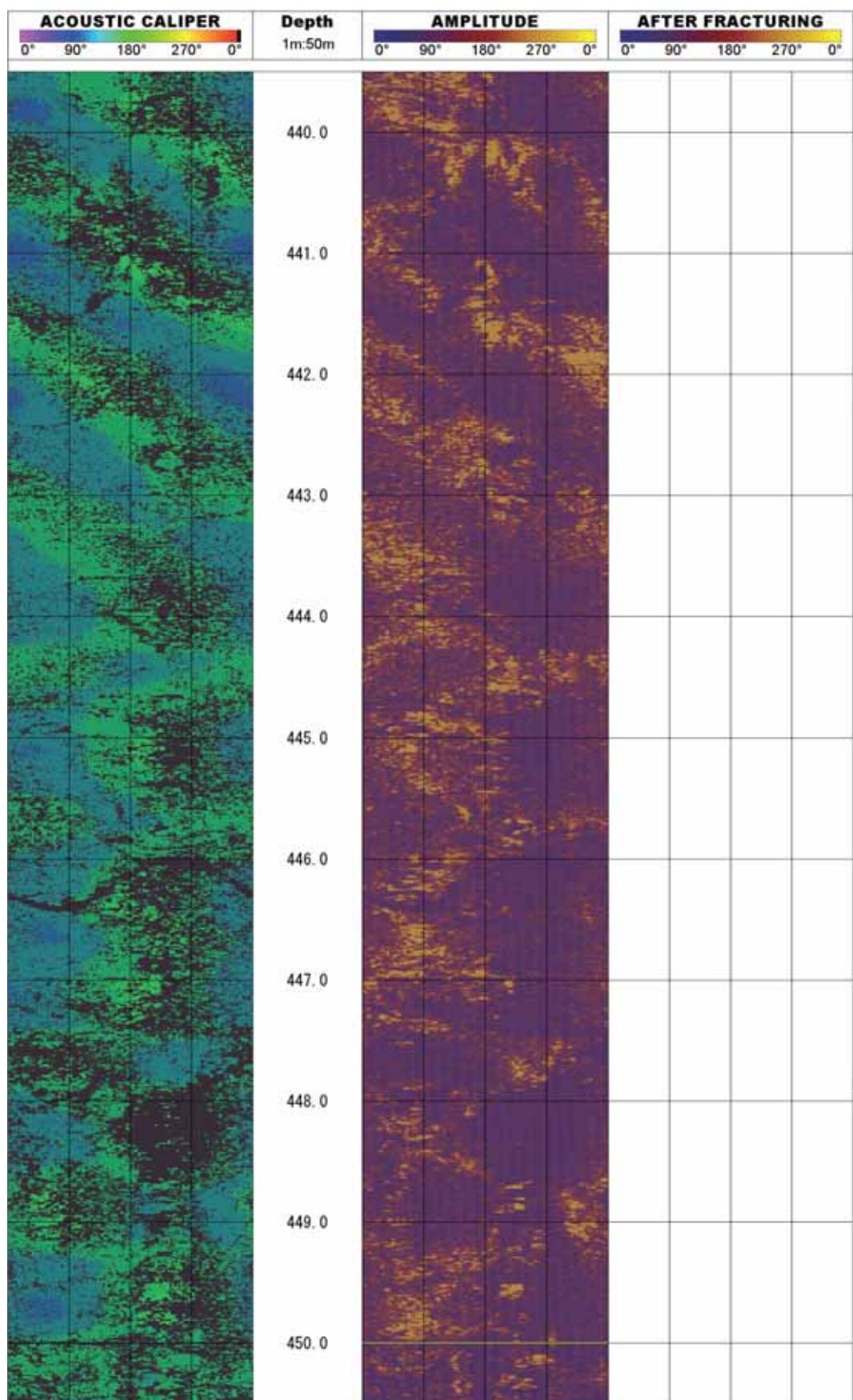
垂直孔 (vertical hole)



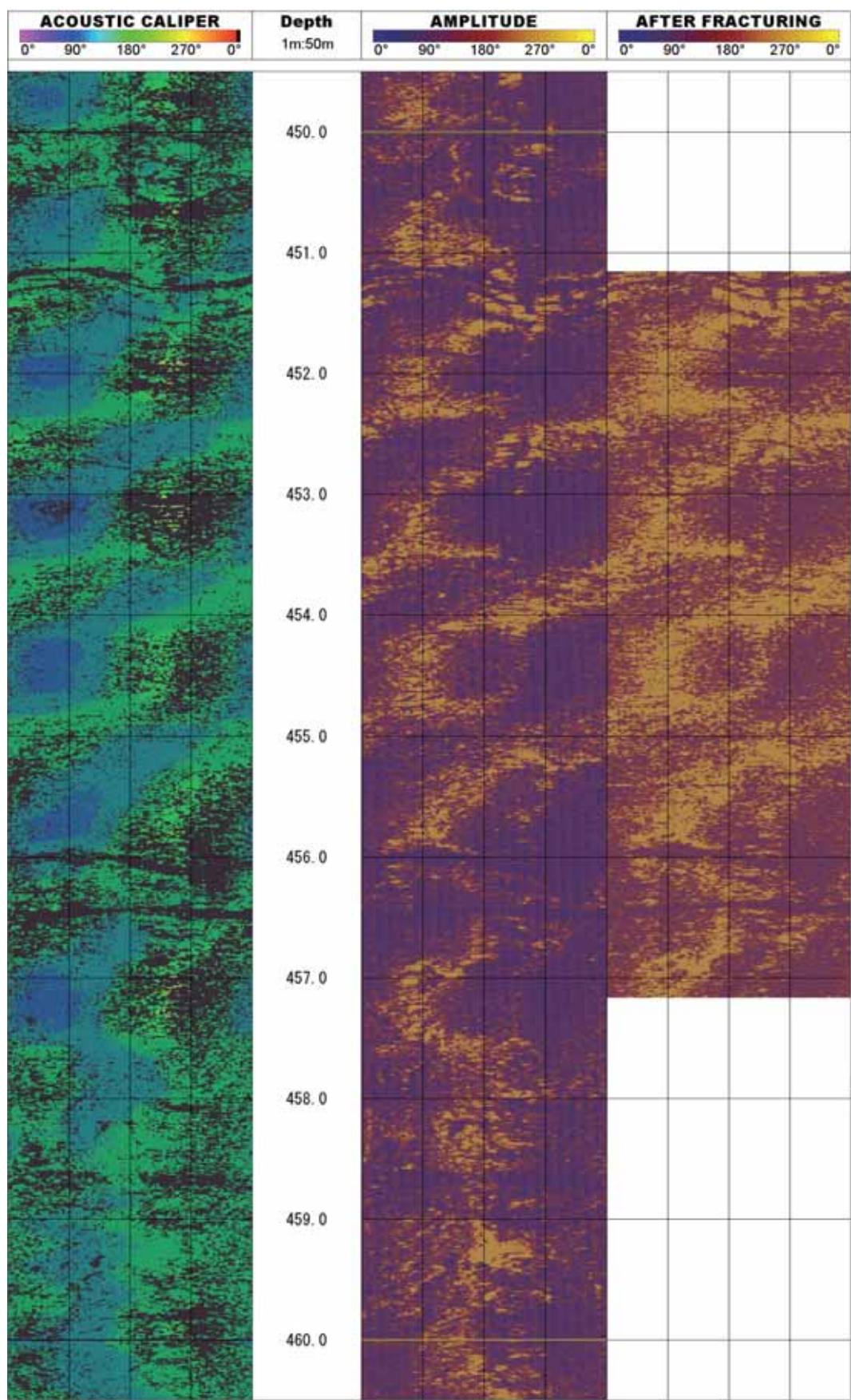
垂直孔 (vertical hole)



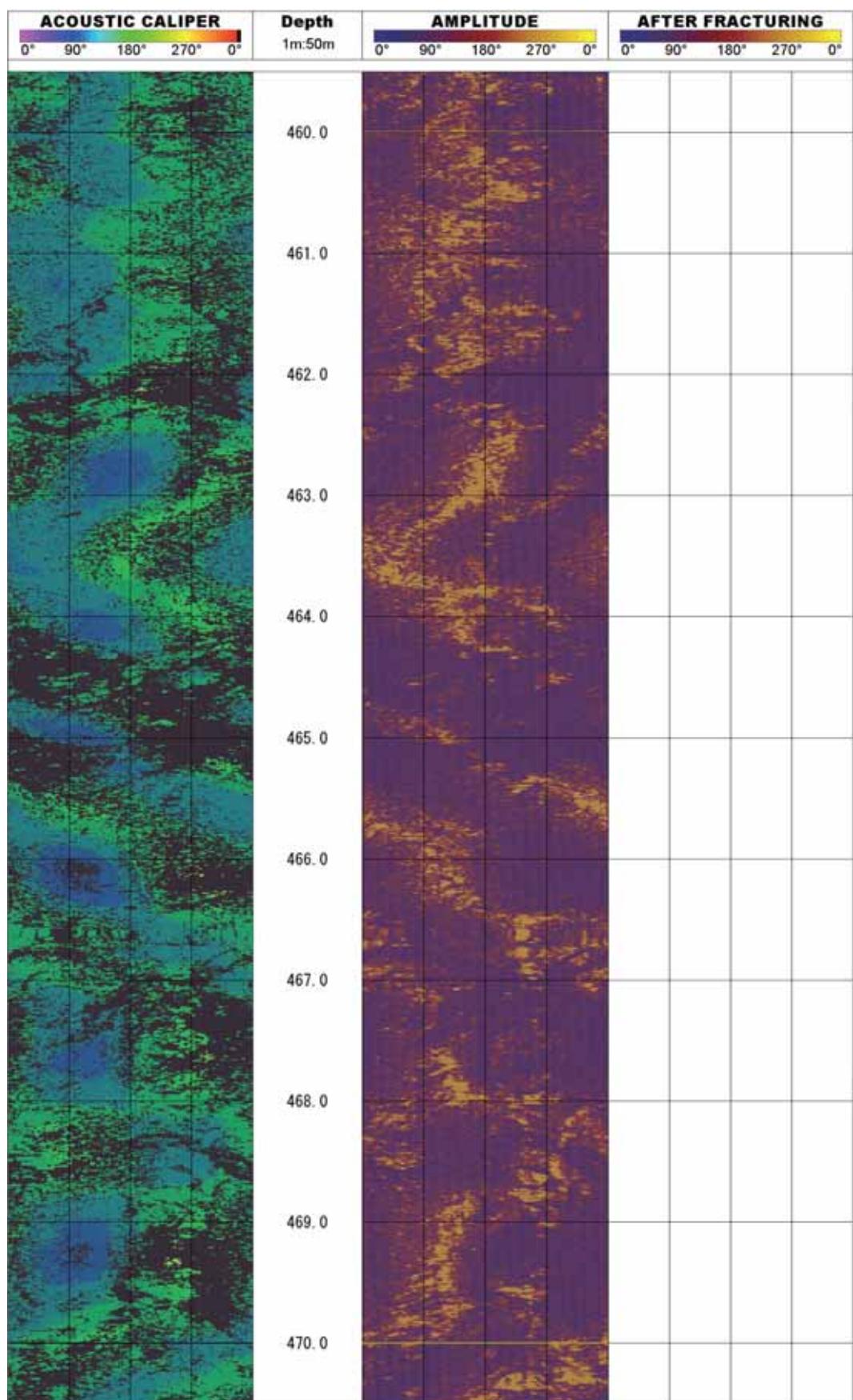
垂直孔 (vertical hole)



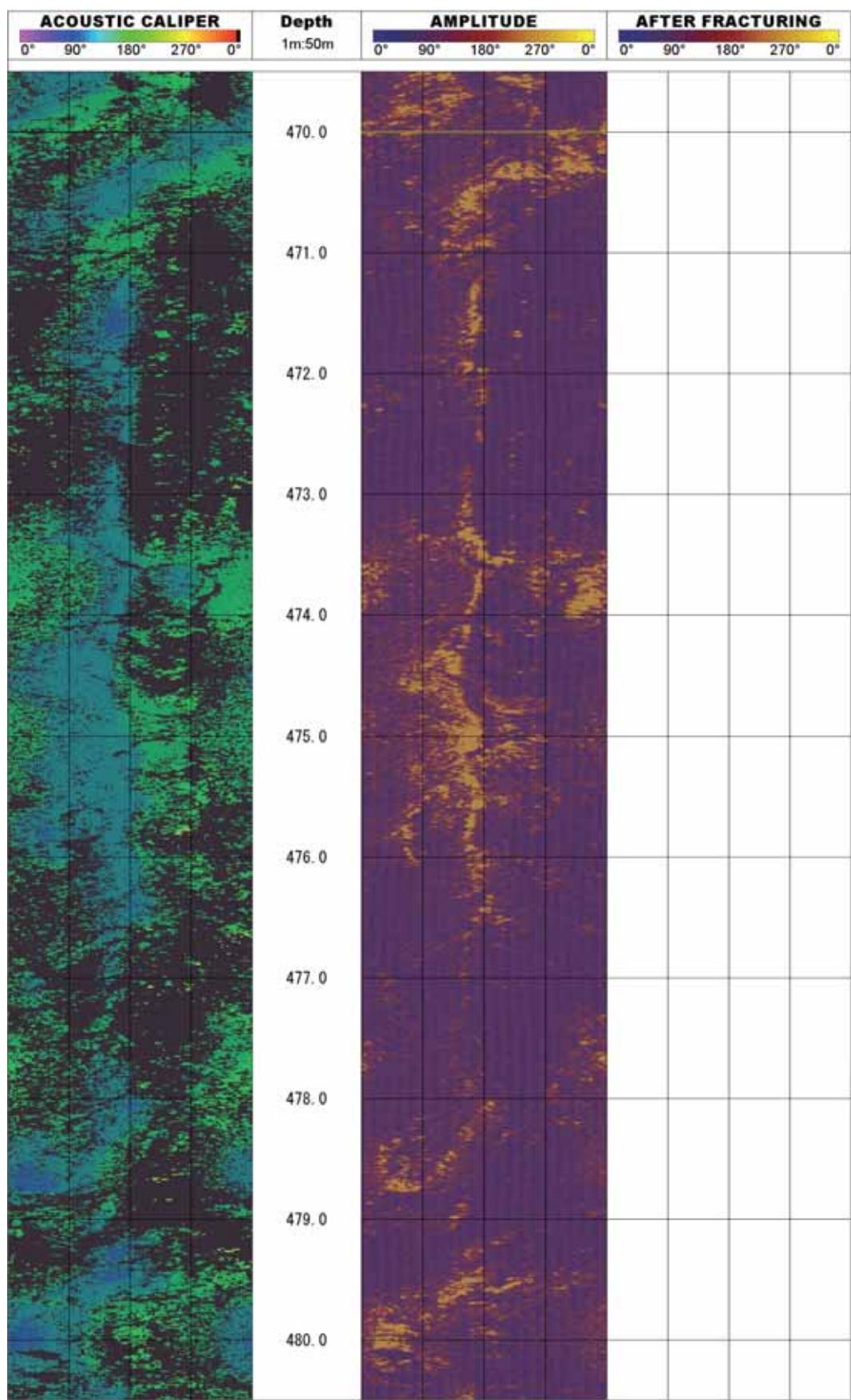
垂直孔 (vertical hole)



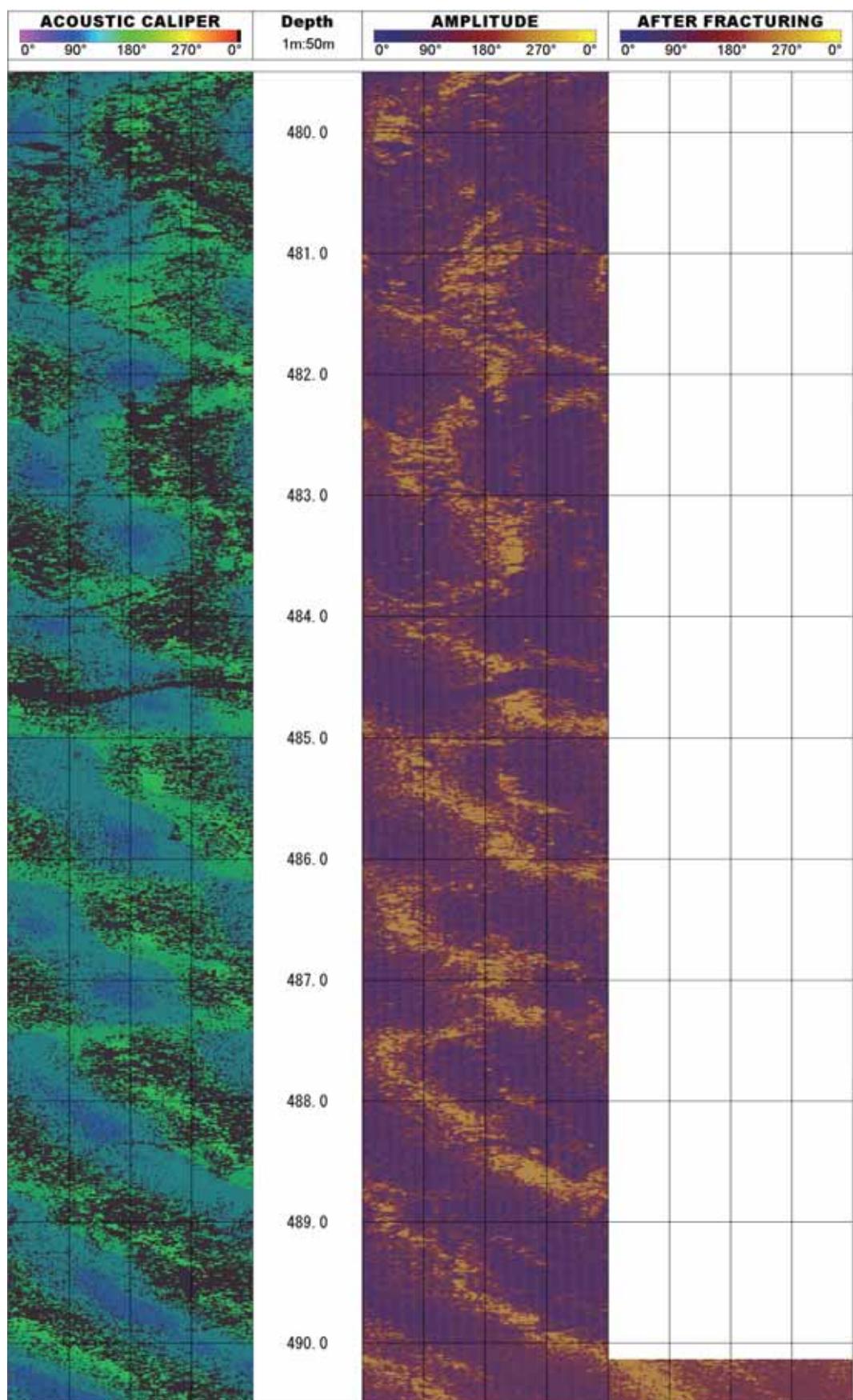
垂直孔 (vertical hole)



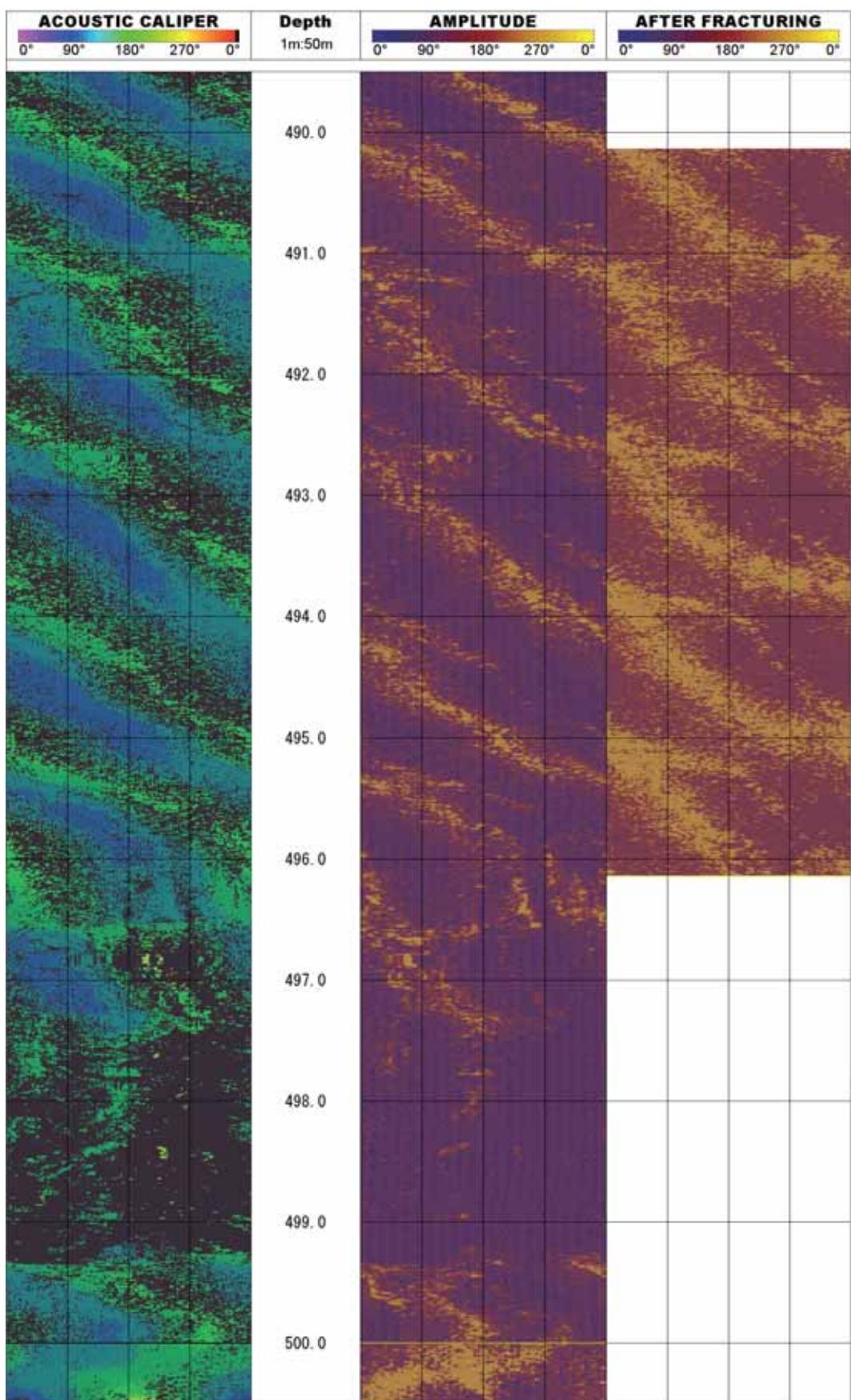
垂直孔 (vertical hole)



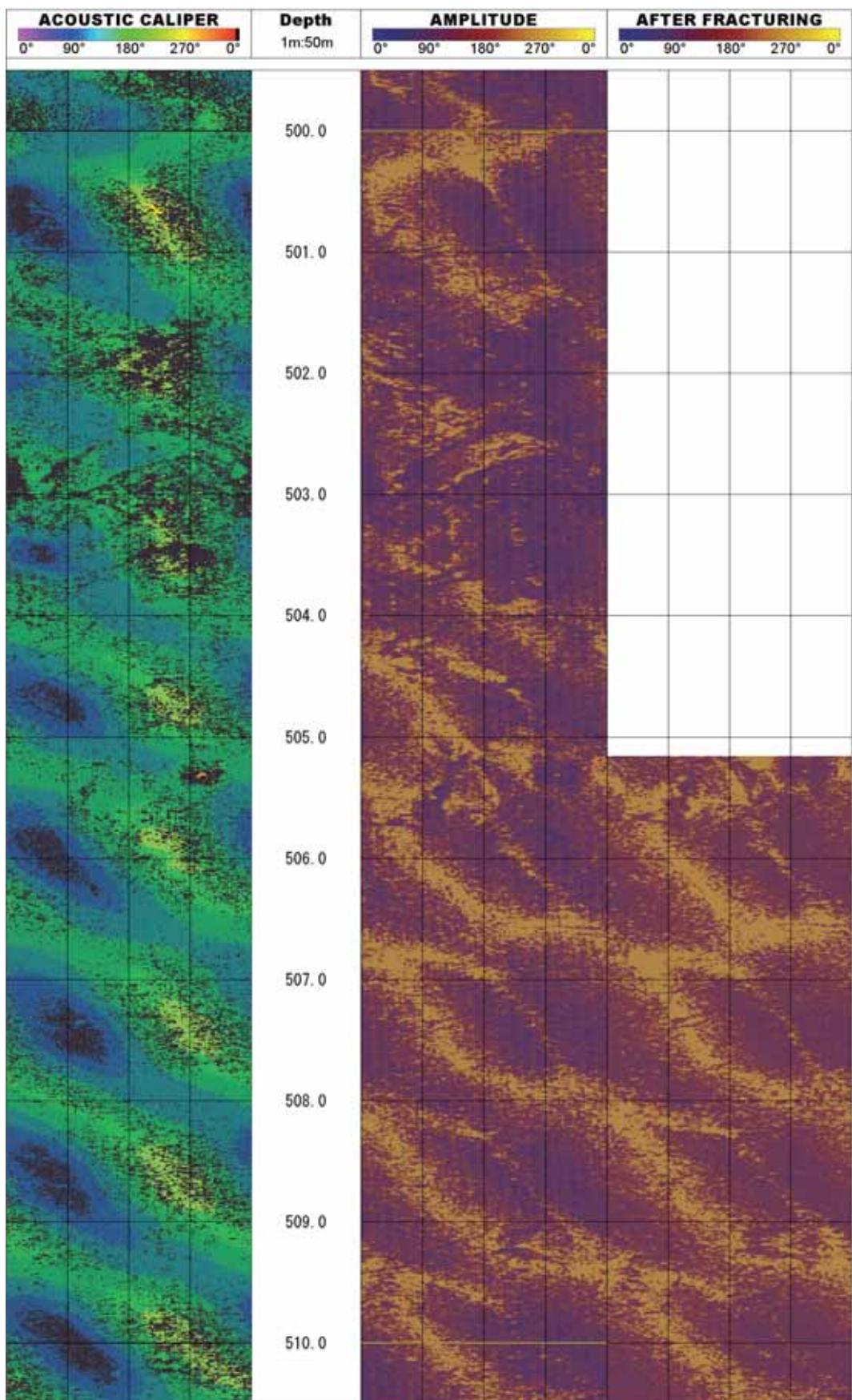
垂直孔 (vertical hole)



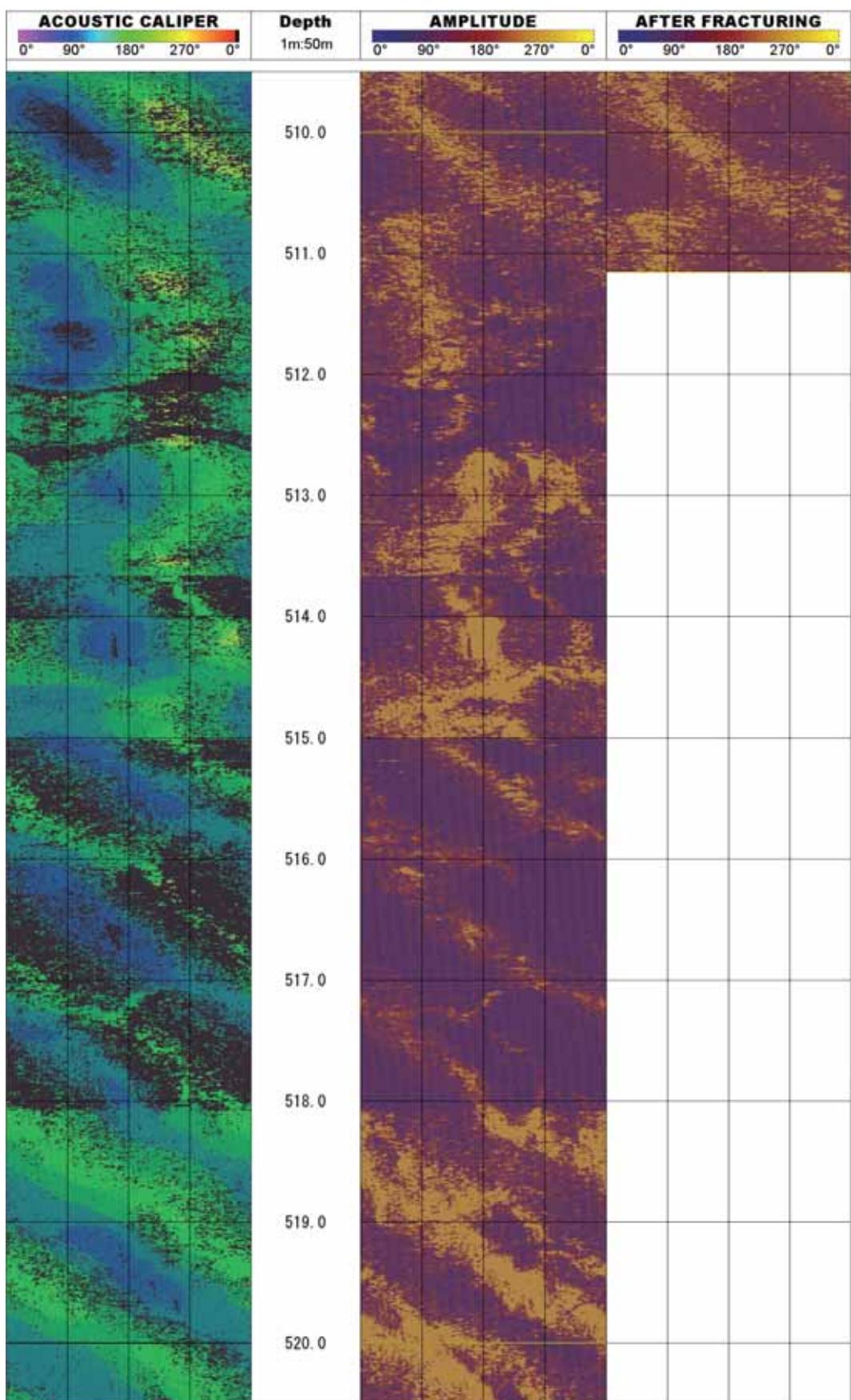
垂直孔 (vertical hole)



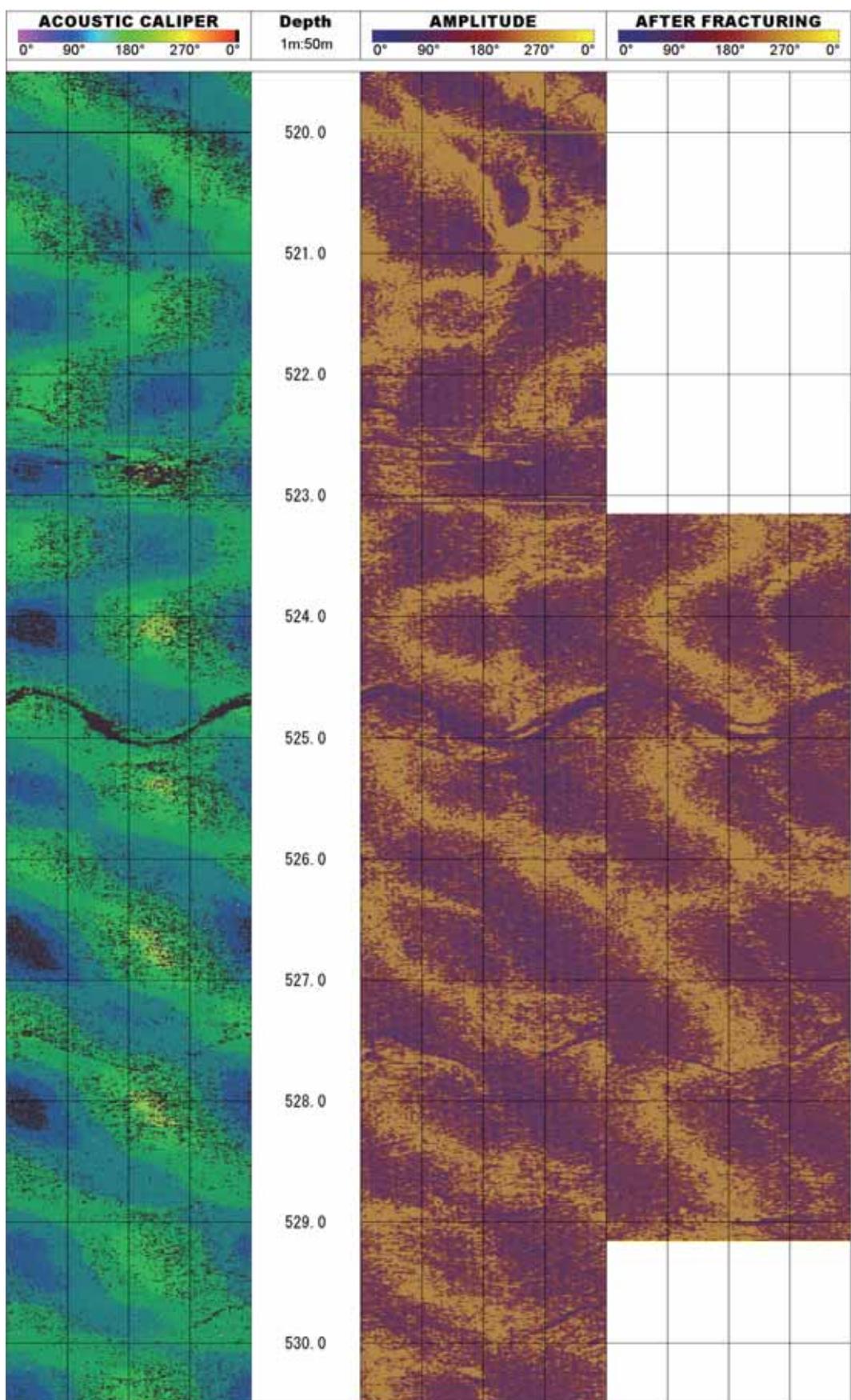
垂直孔 (vertical hole)



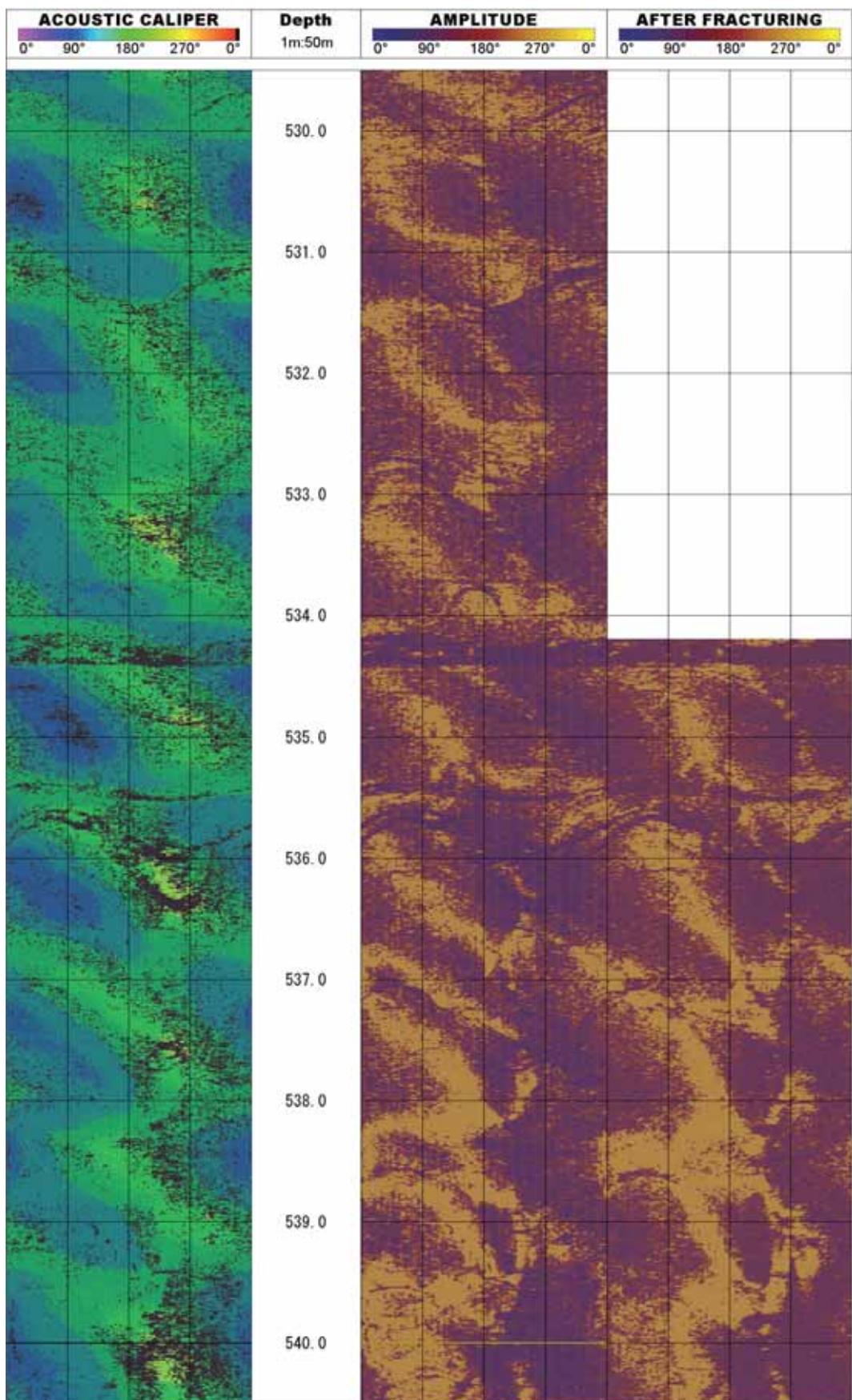
垂直孔 (vertical hole)



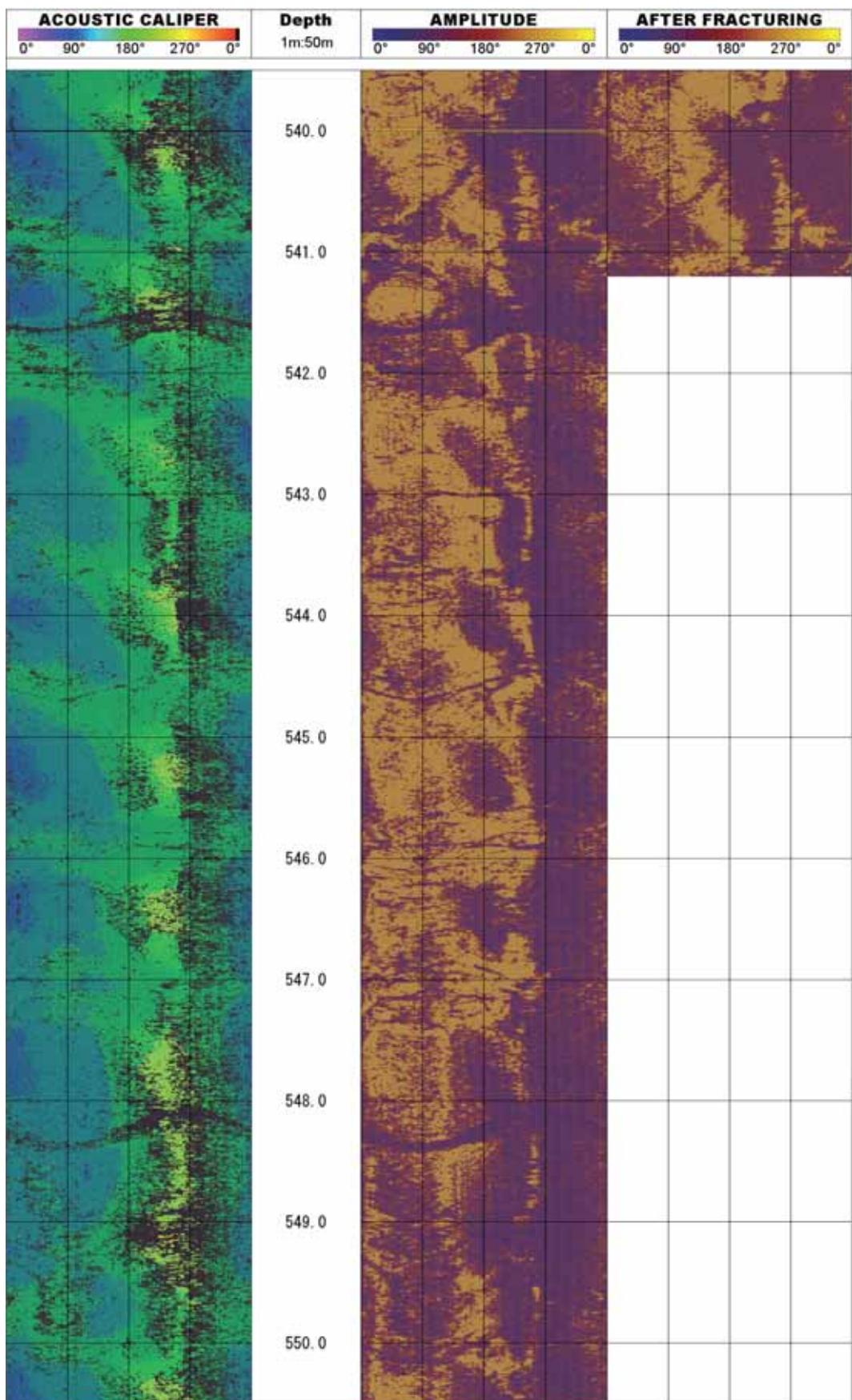
垂直孔 (vertical hole)



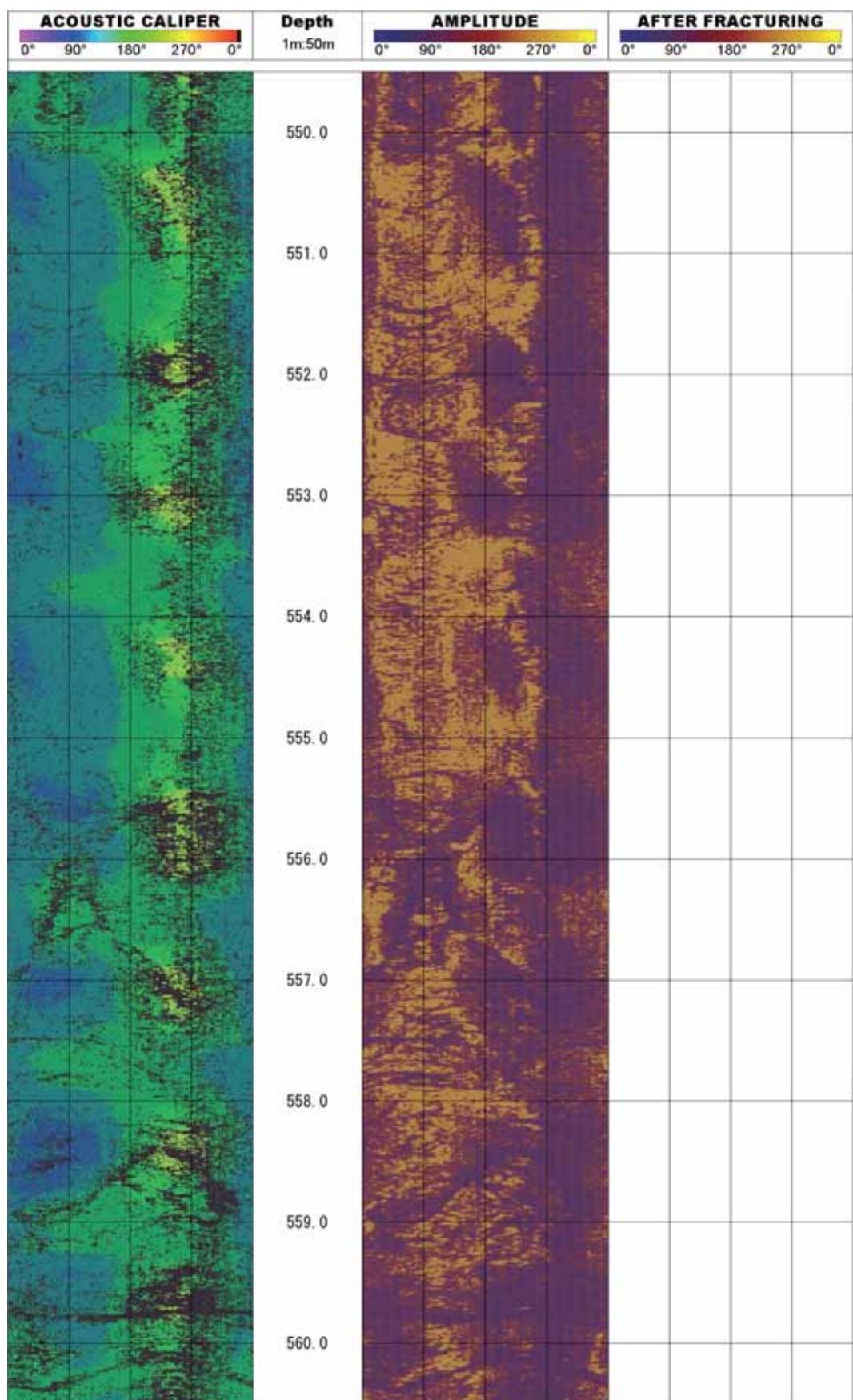
垂直孔 (vertical hole)



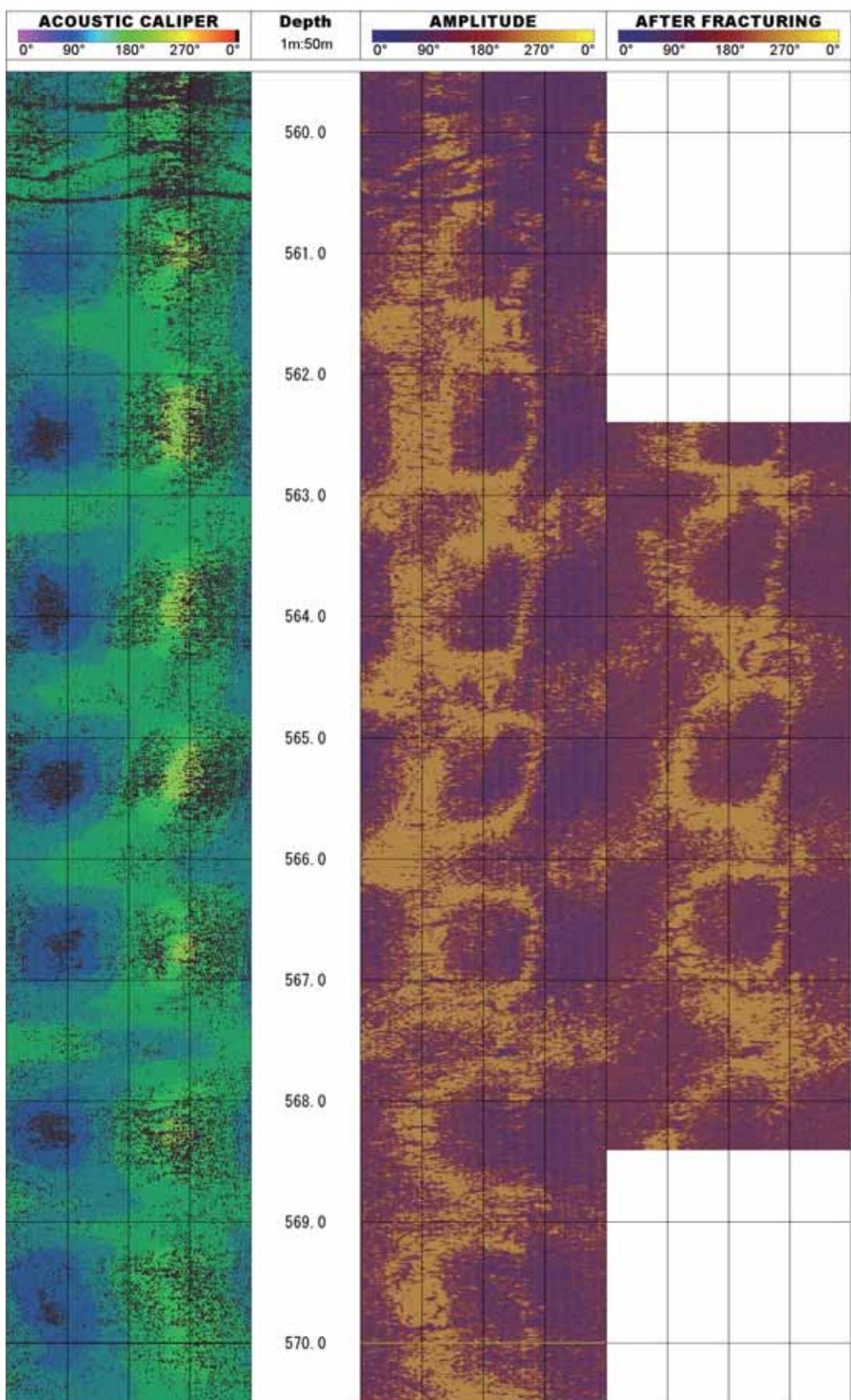
垂直孔 (vertical hole)



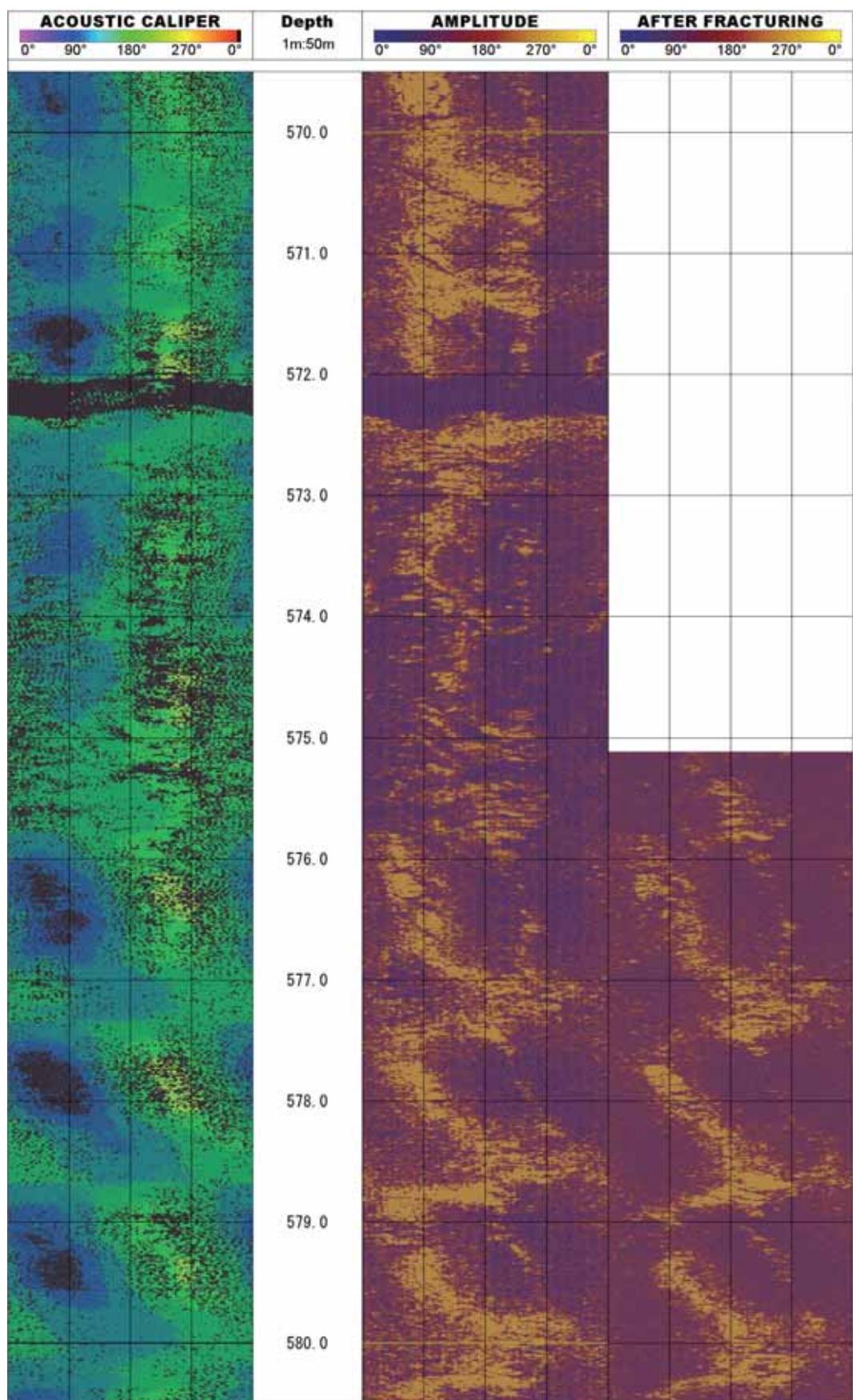
垂直孔 (vertical hole)



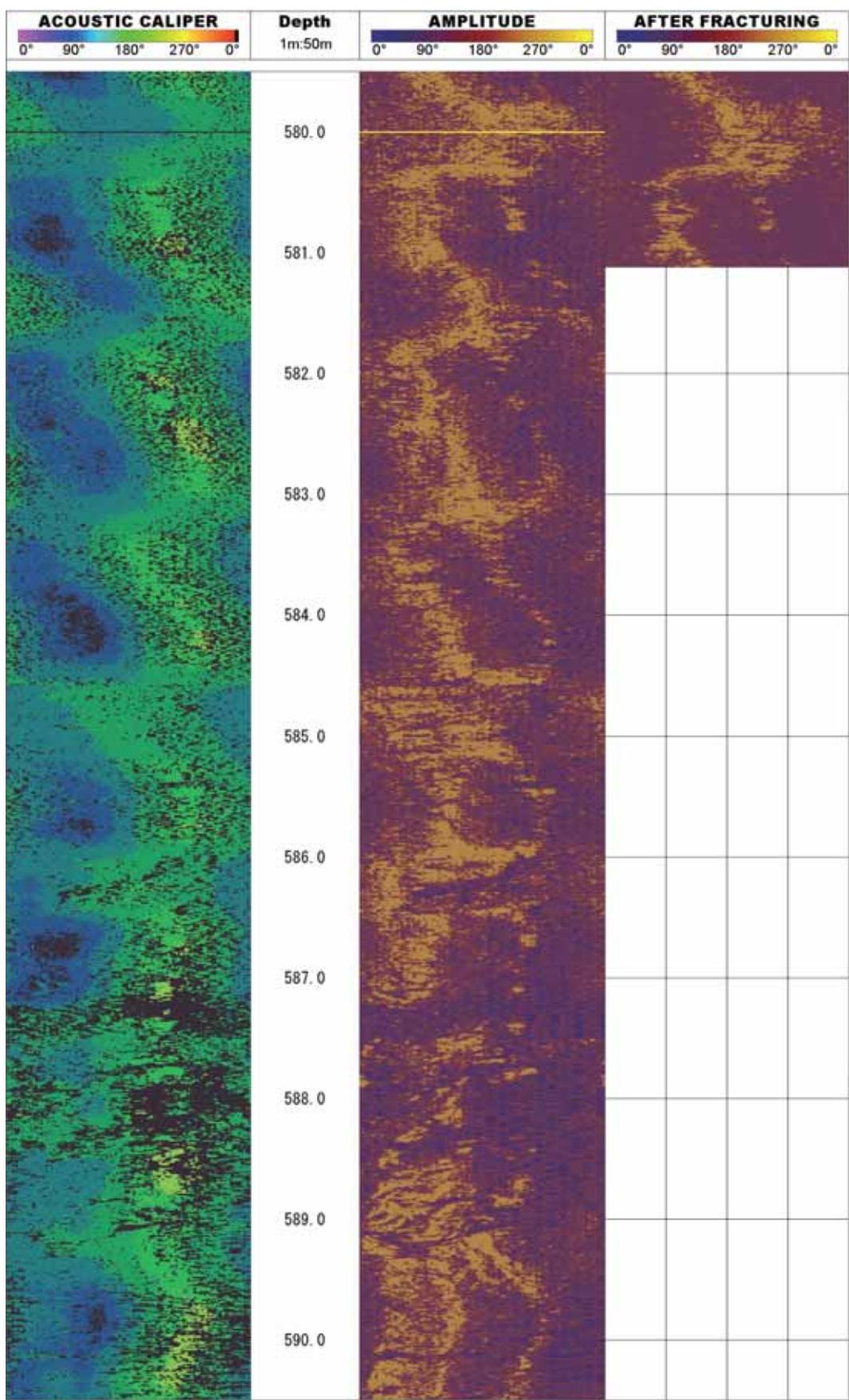
垂直孔 (vertical hole)



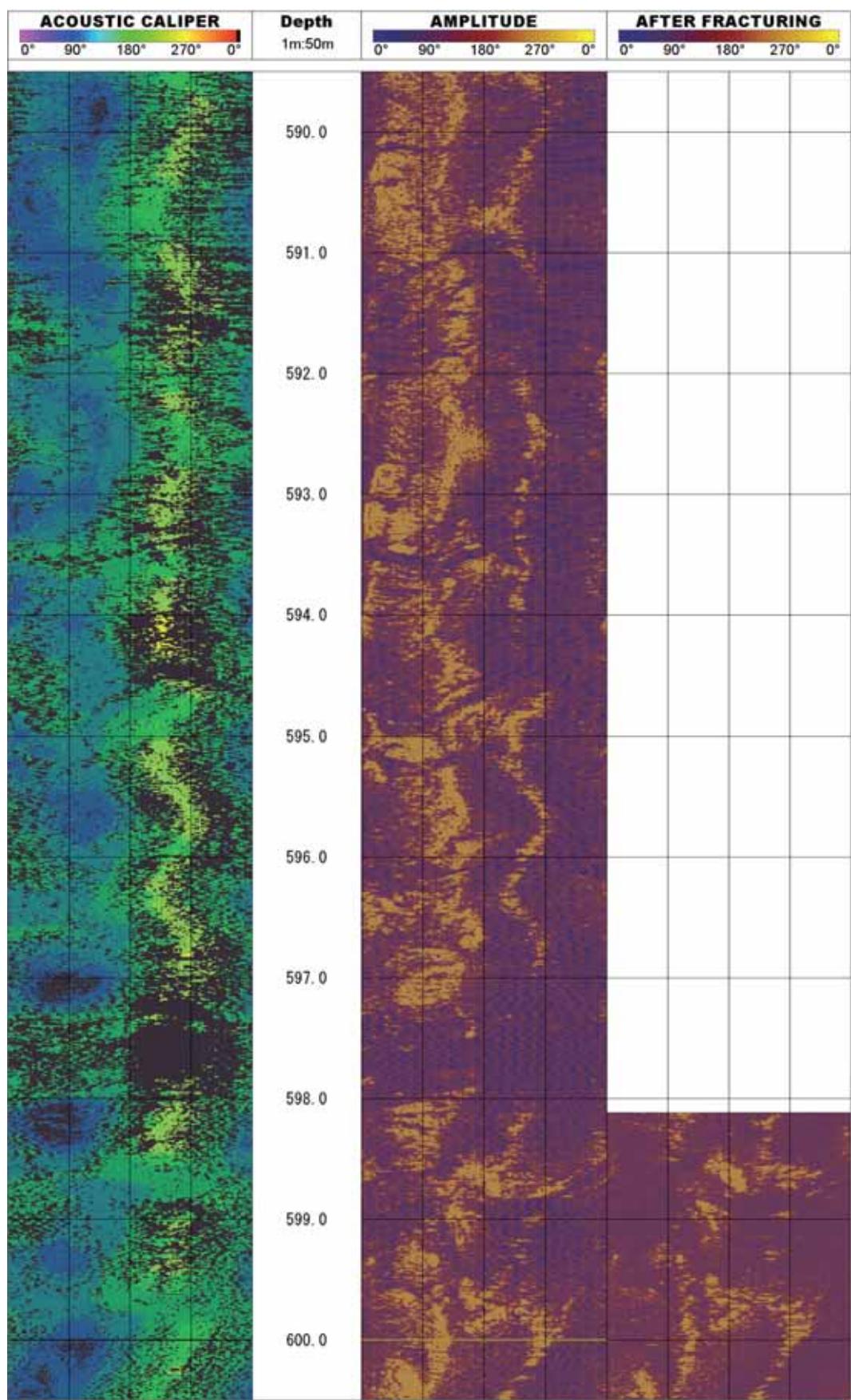
垂直孔 (vertical hole)



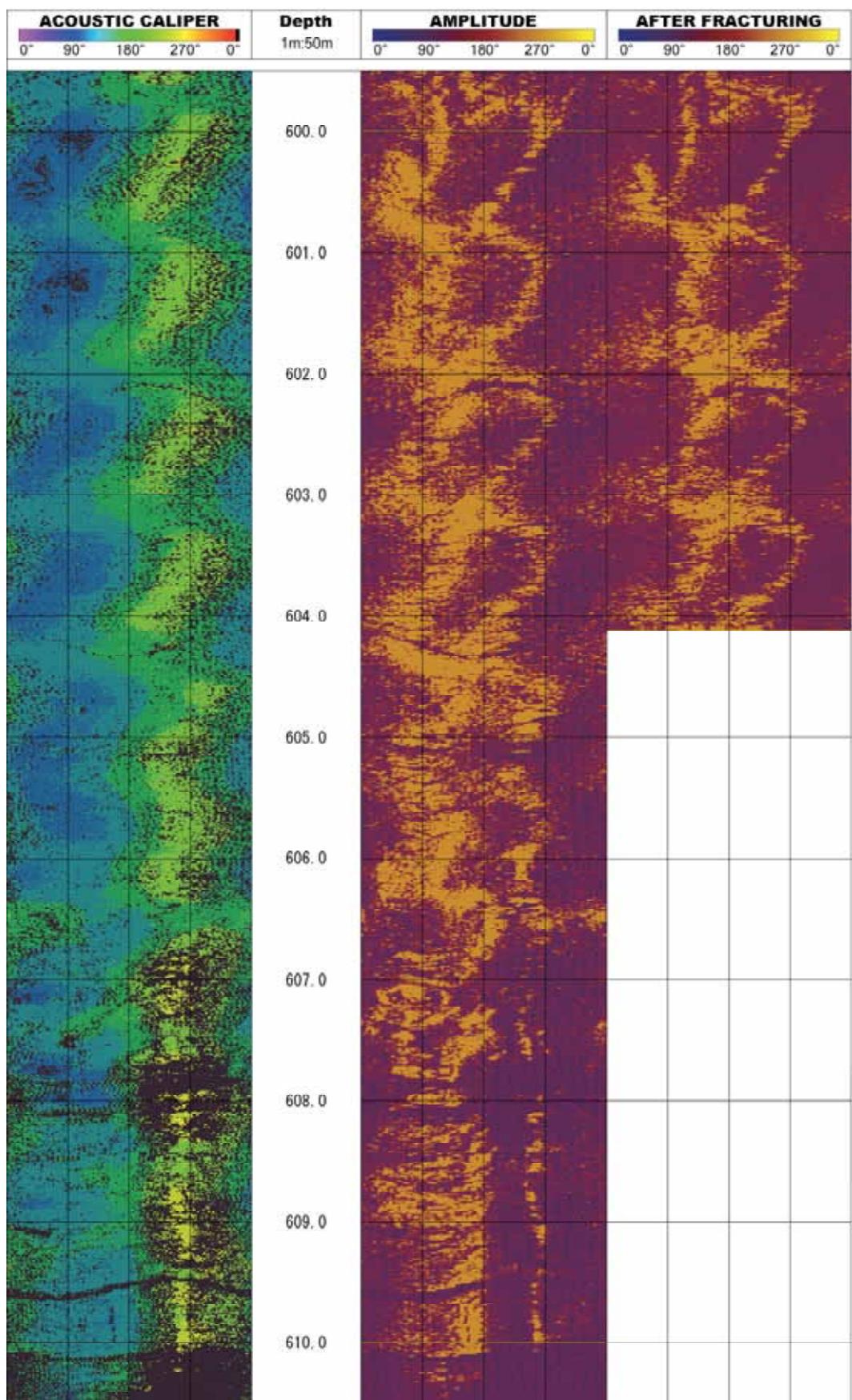
垂直孔 (vertical hole)



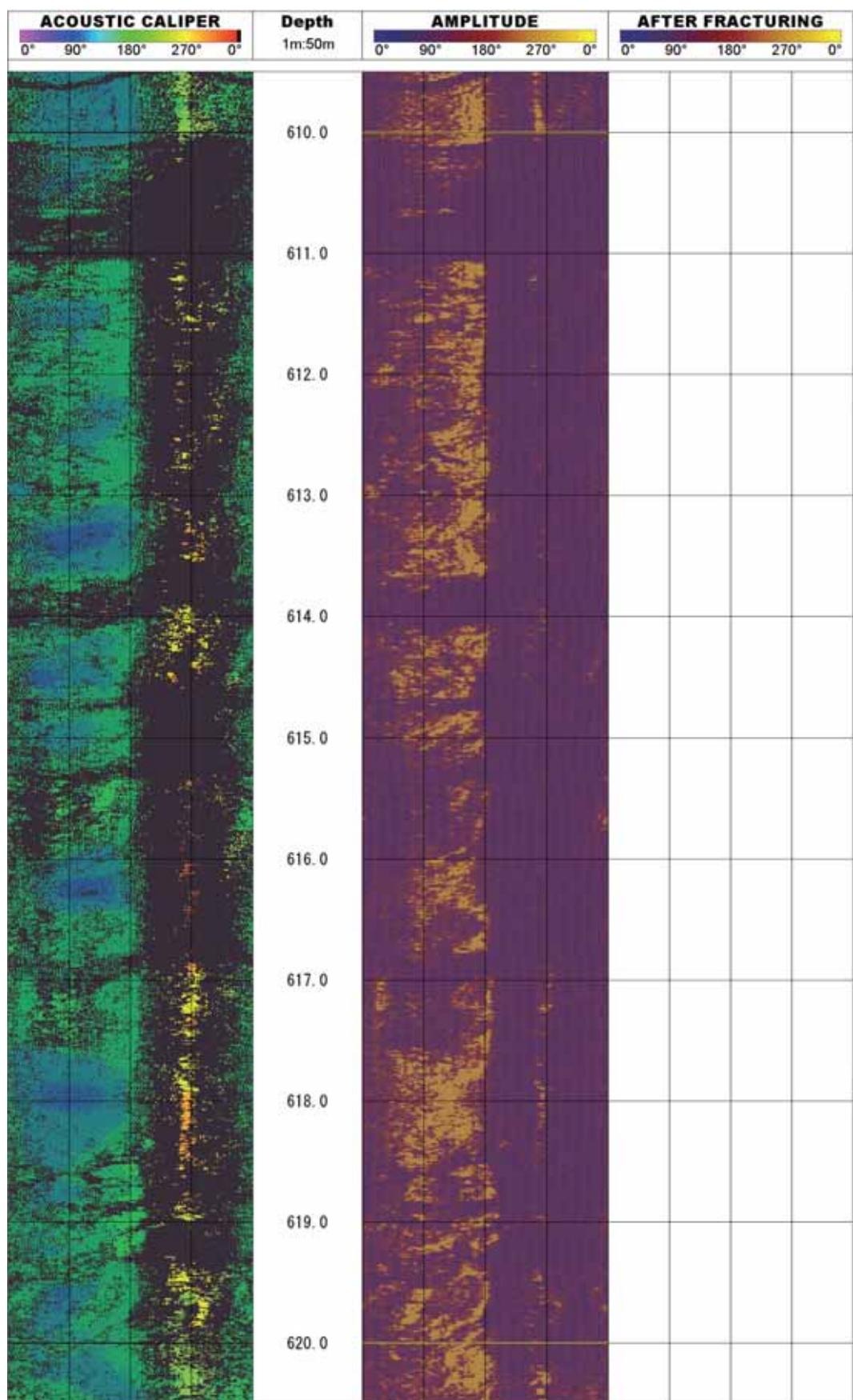
垂直孔 (vertical hole)



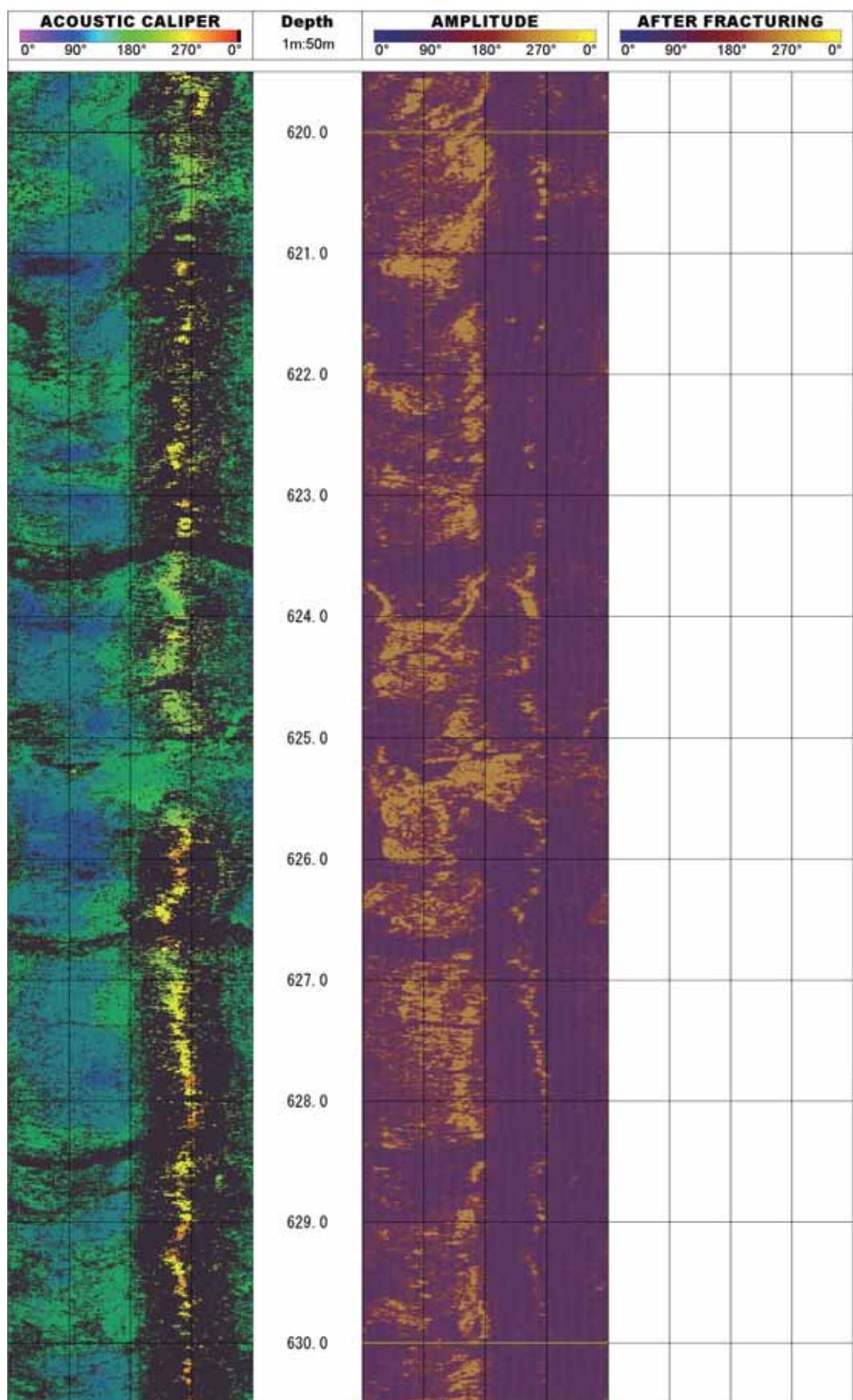
垂直孔 (vertical hole)



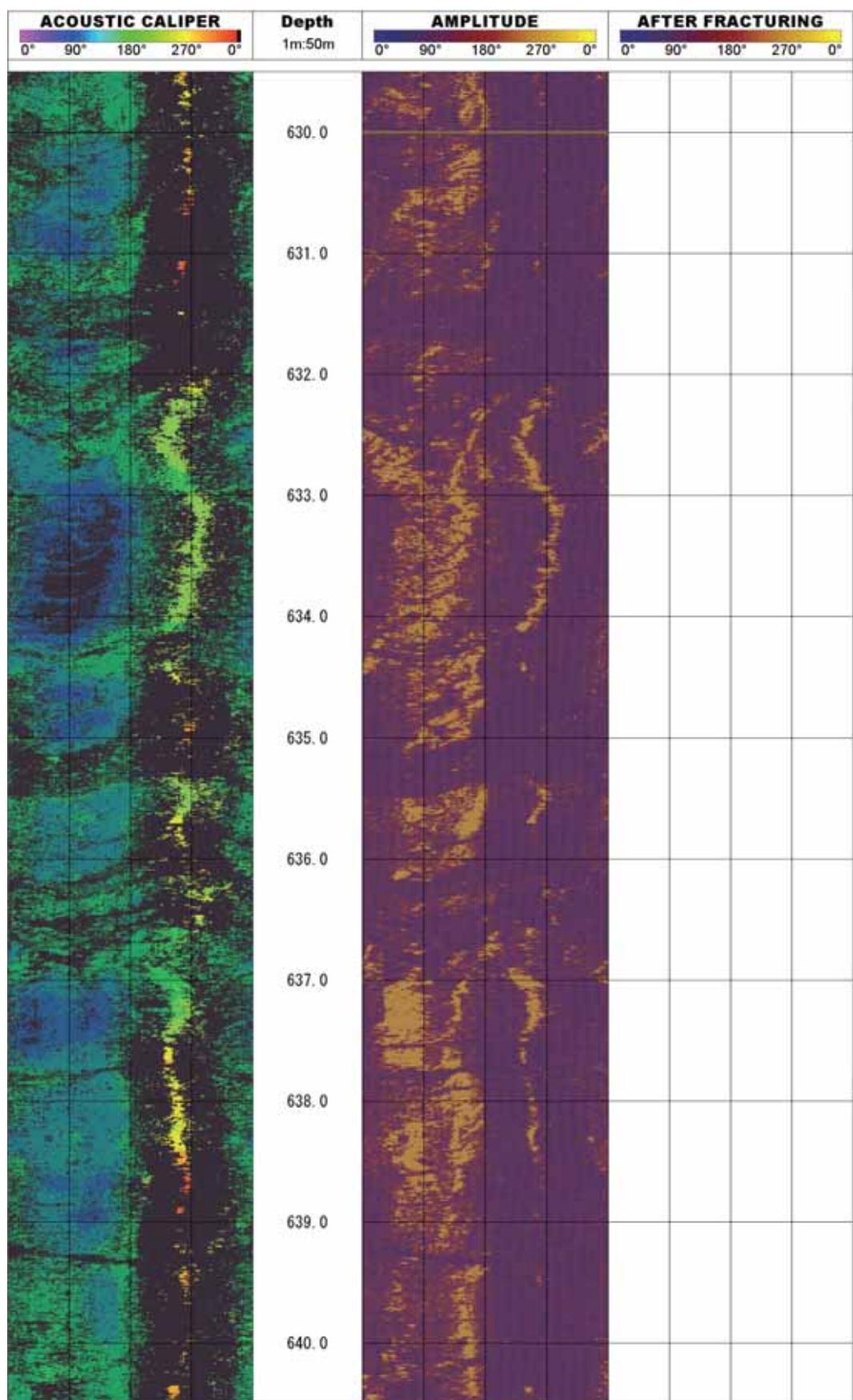
垂直孔 (vertical hole)



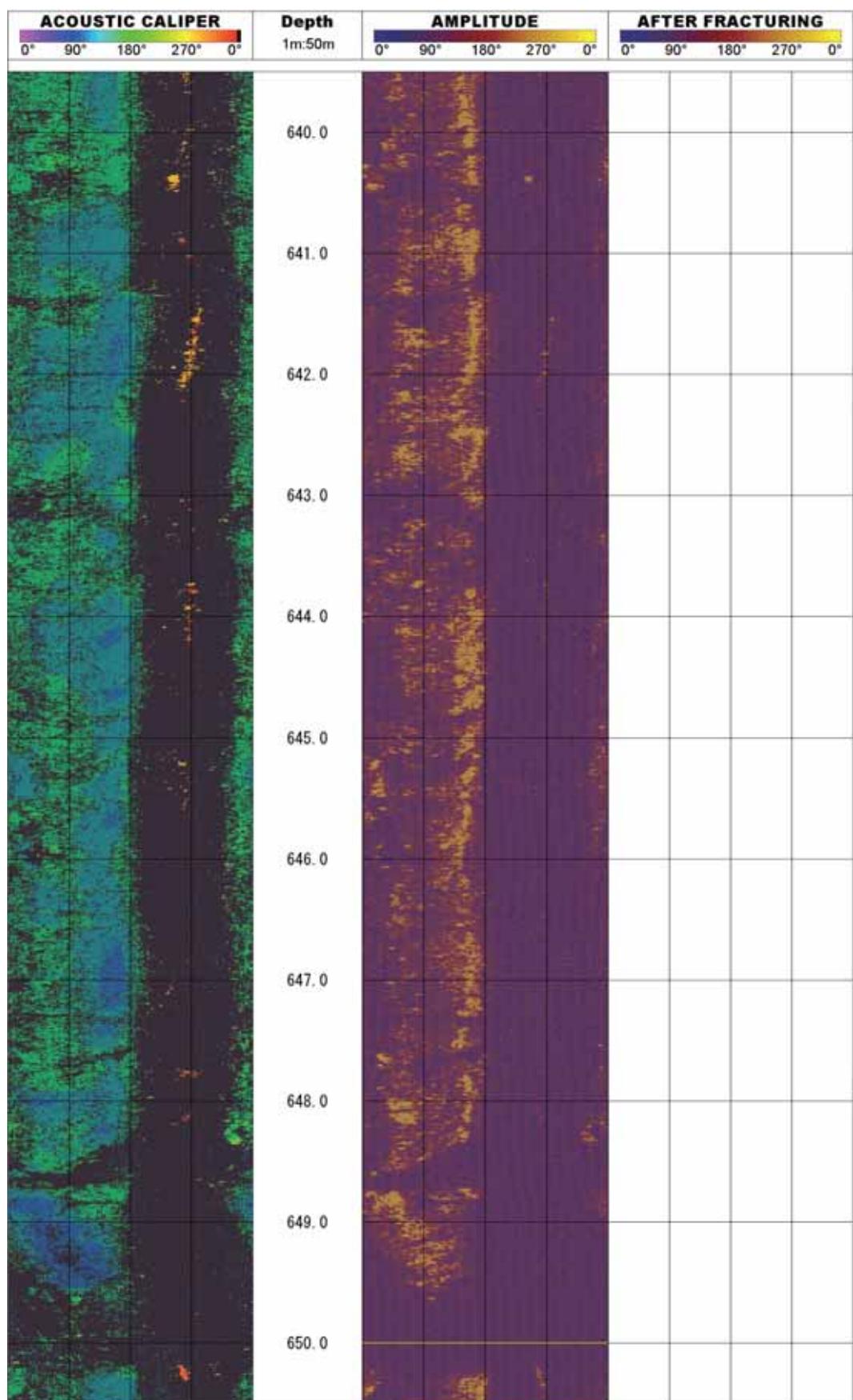
垂直孔 (vertical hole)



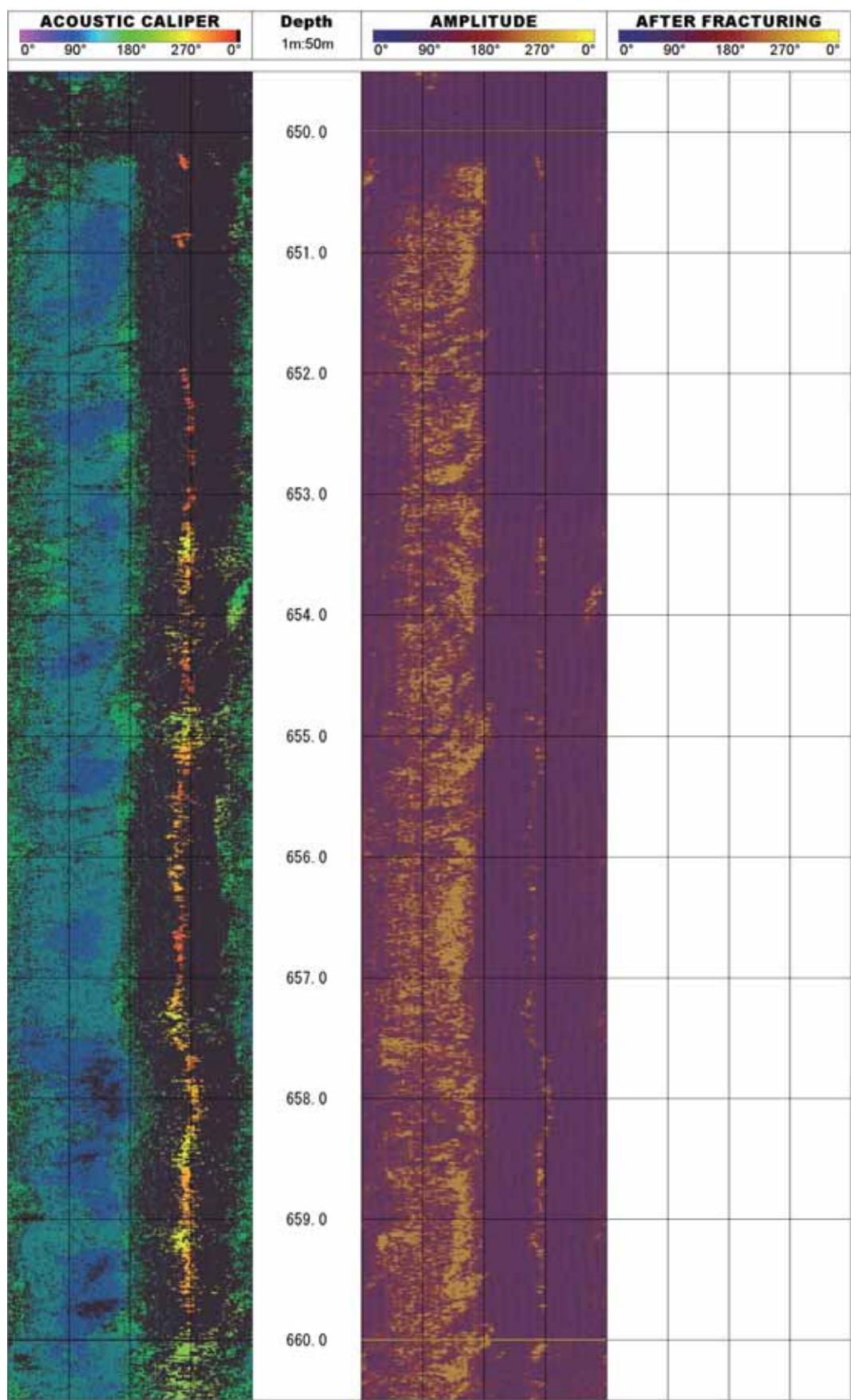
垂直孔 (vertical hole)



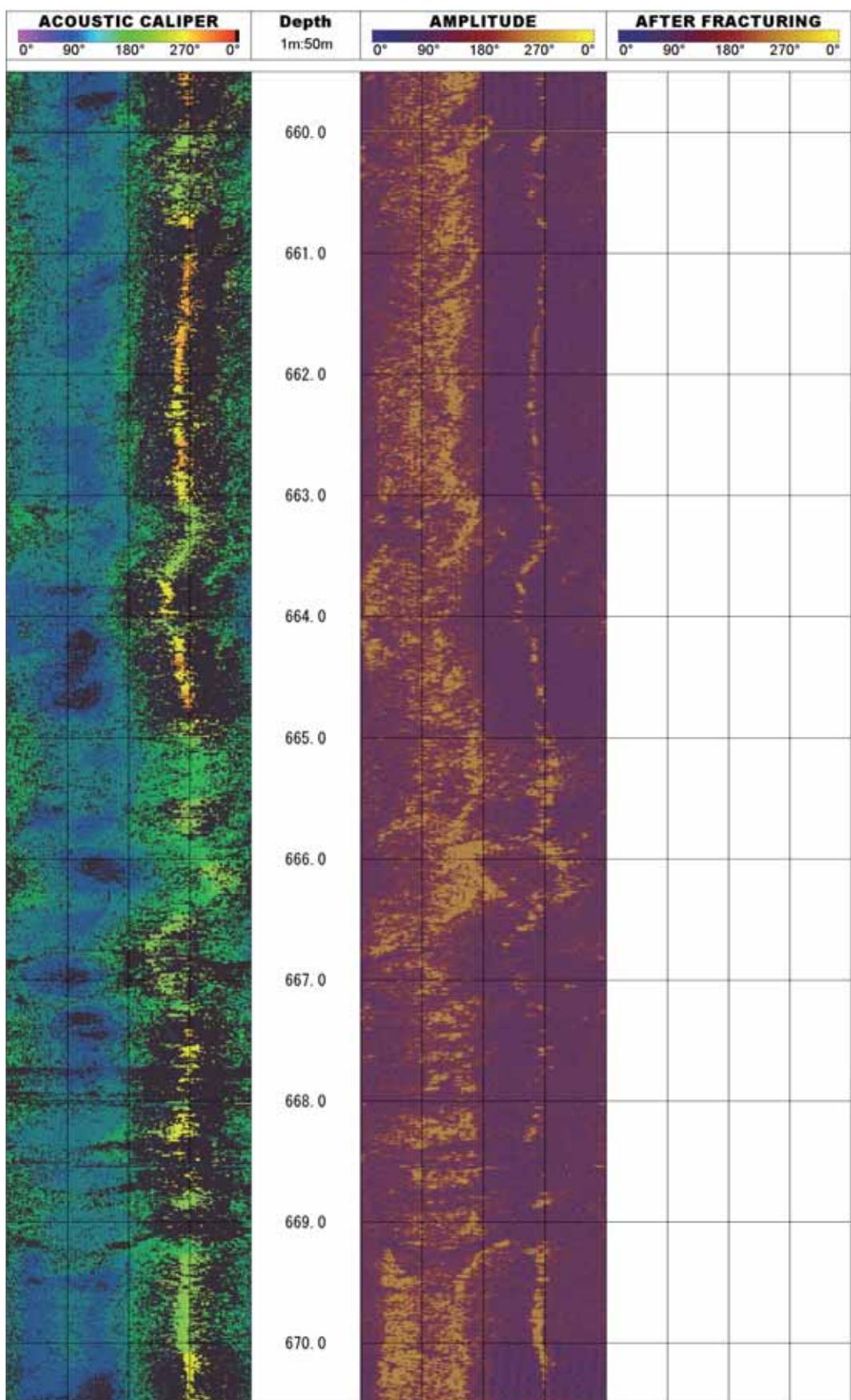
垂直孔 (vertical hole)



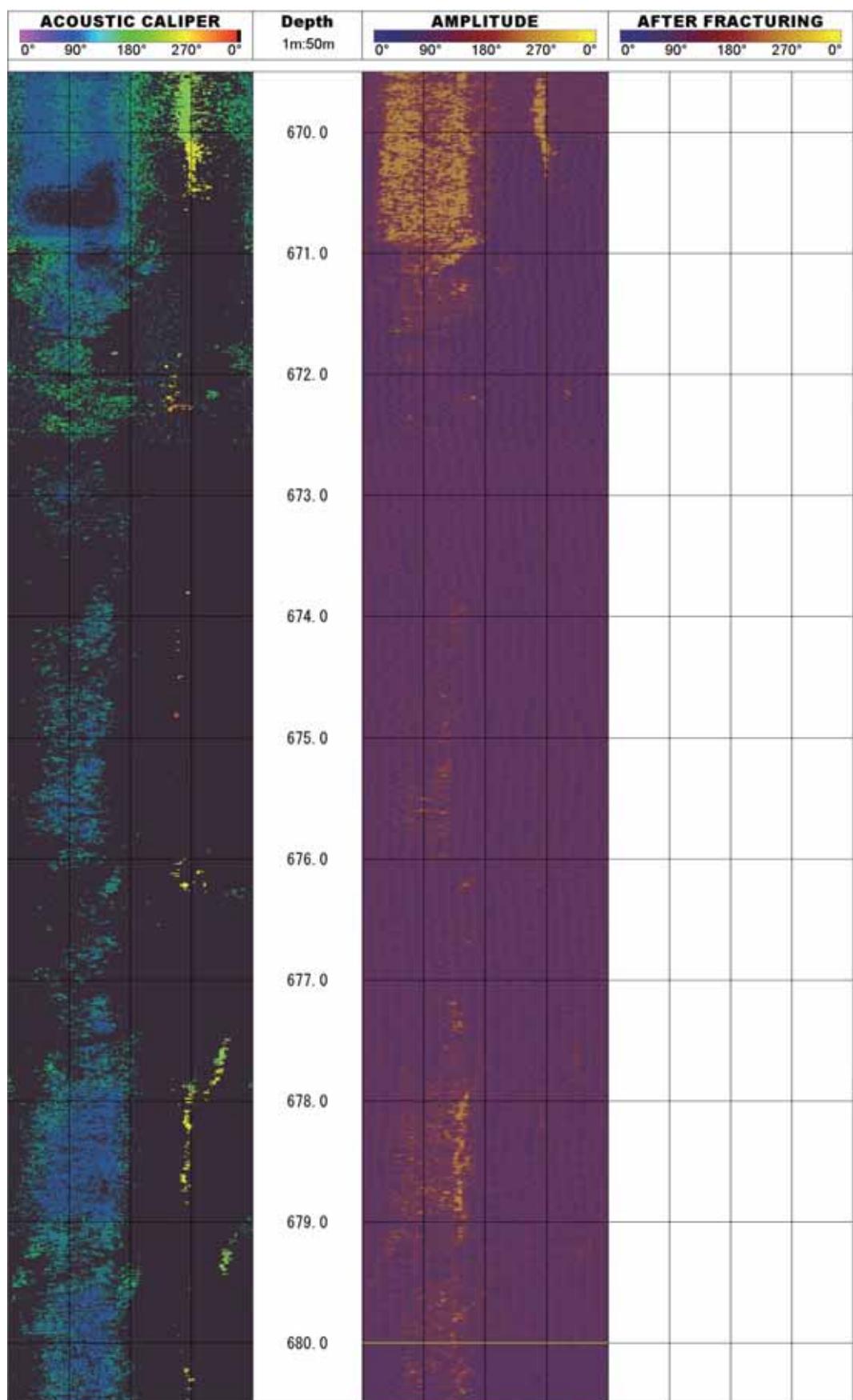
垂直孔 (vertical hole)



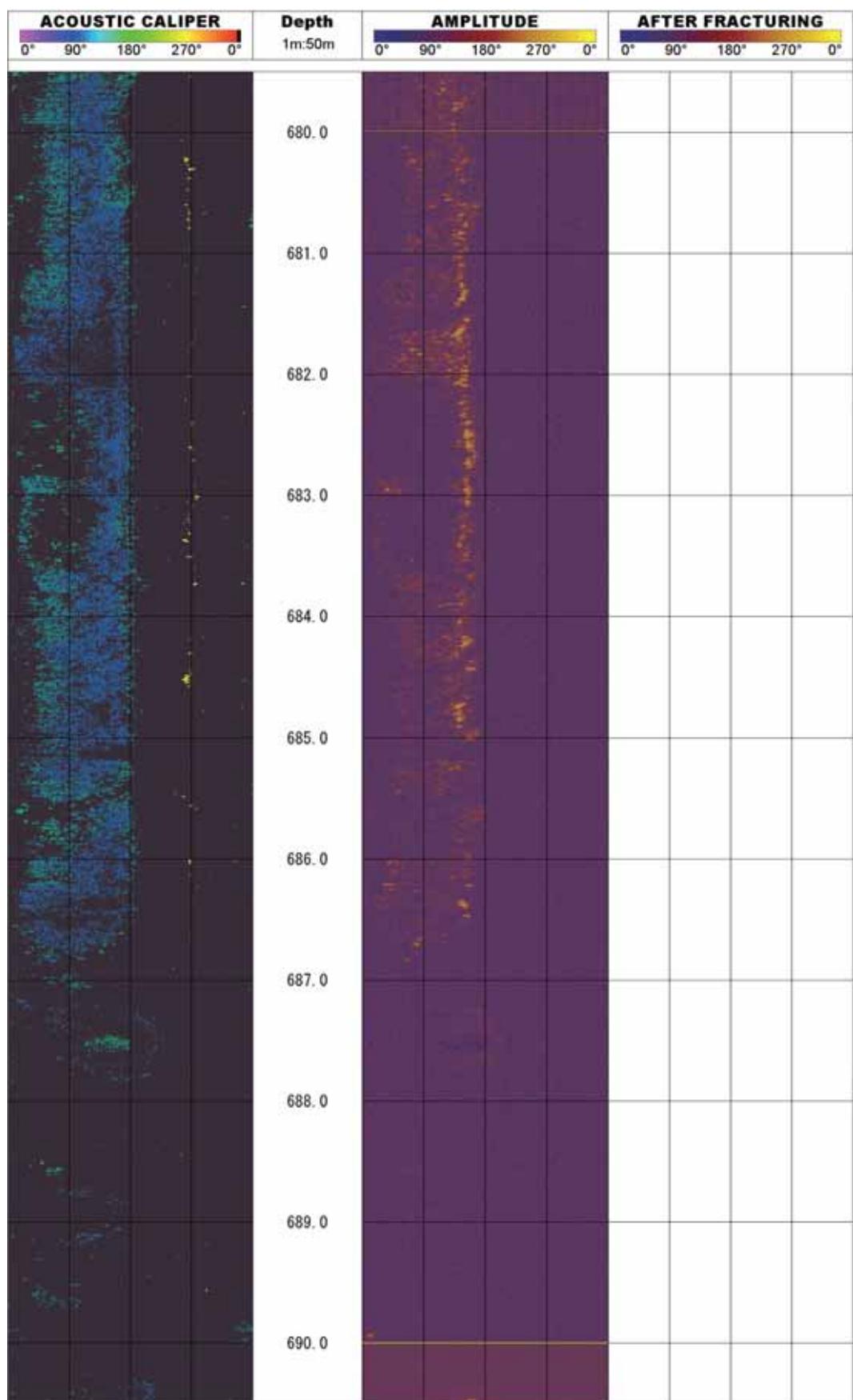
垂直孔 (vertical hole)



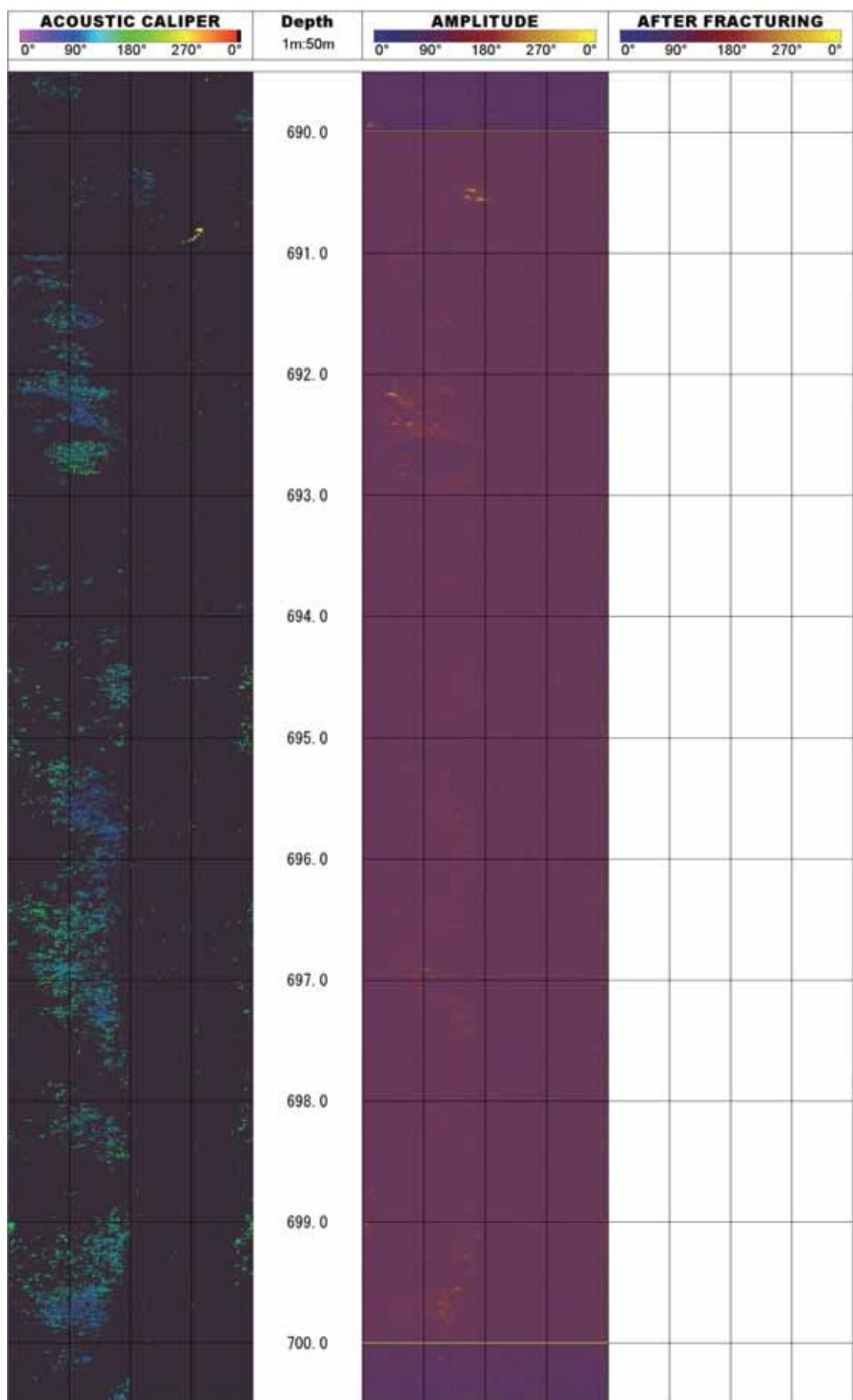
垂直孔 (vertical hole)



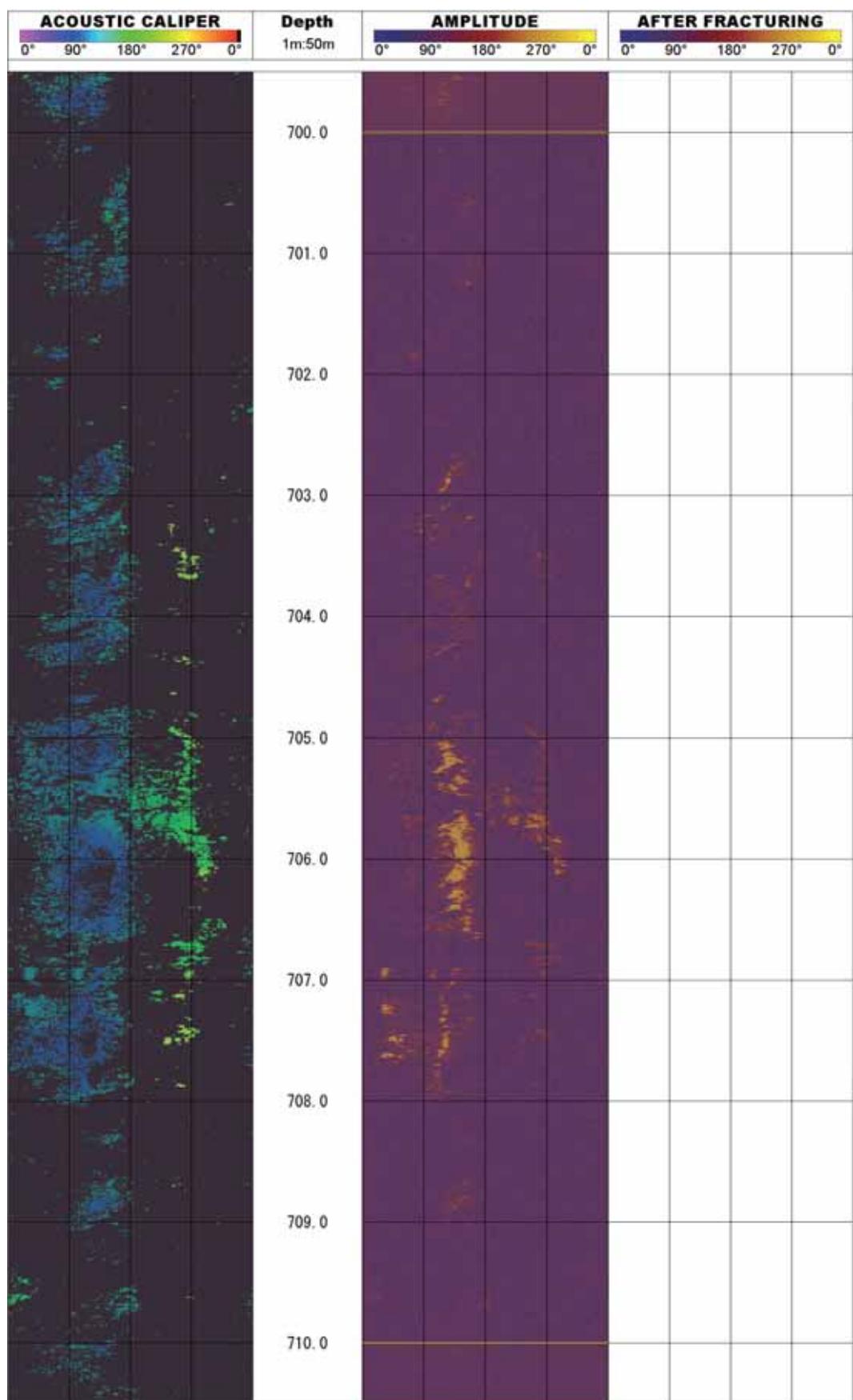
垂直孔 (vertical hole)



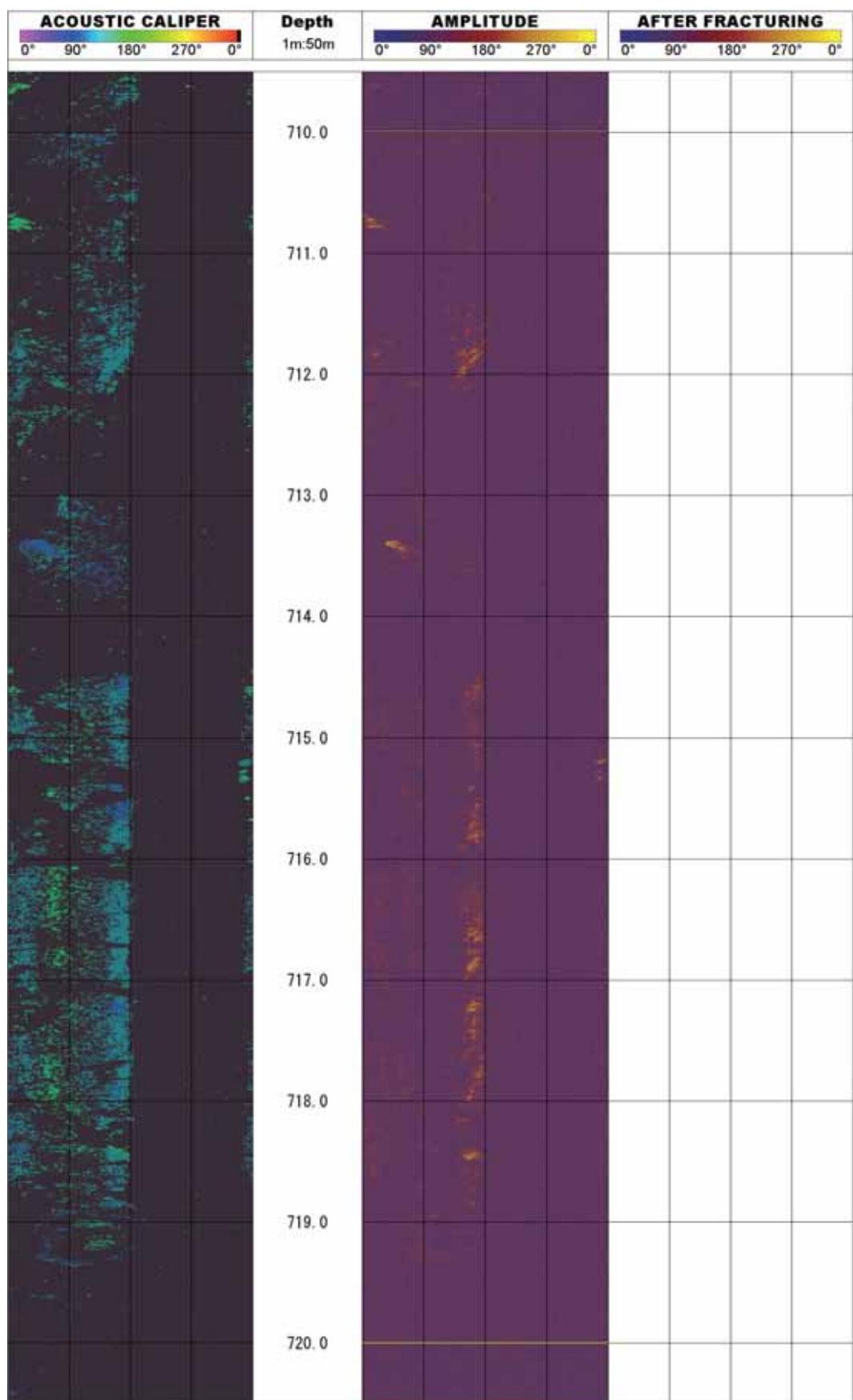
垂直孔 (vertical hole)



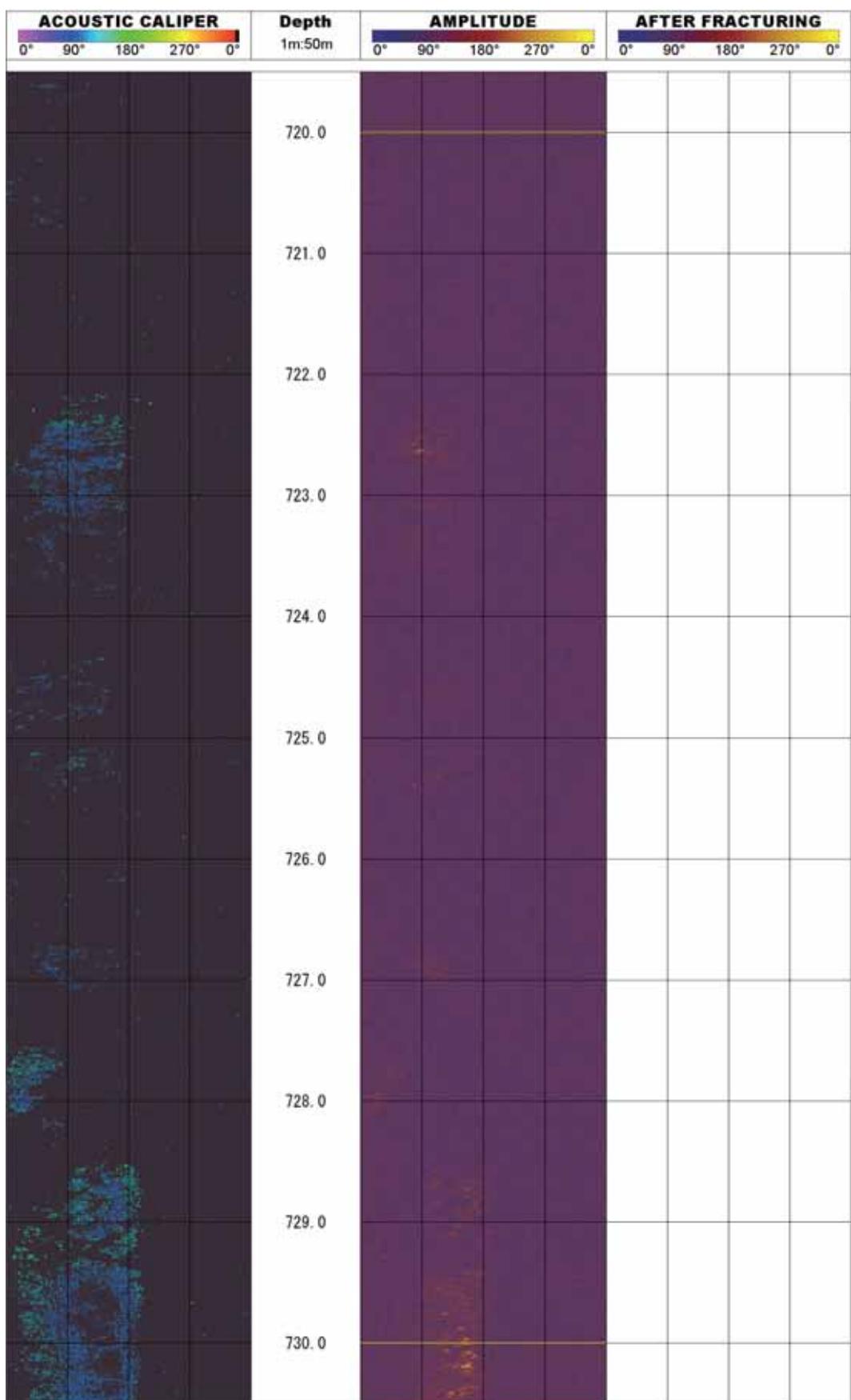
垂直孔 (vertical hole)



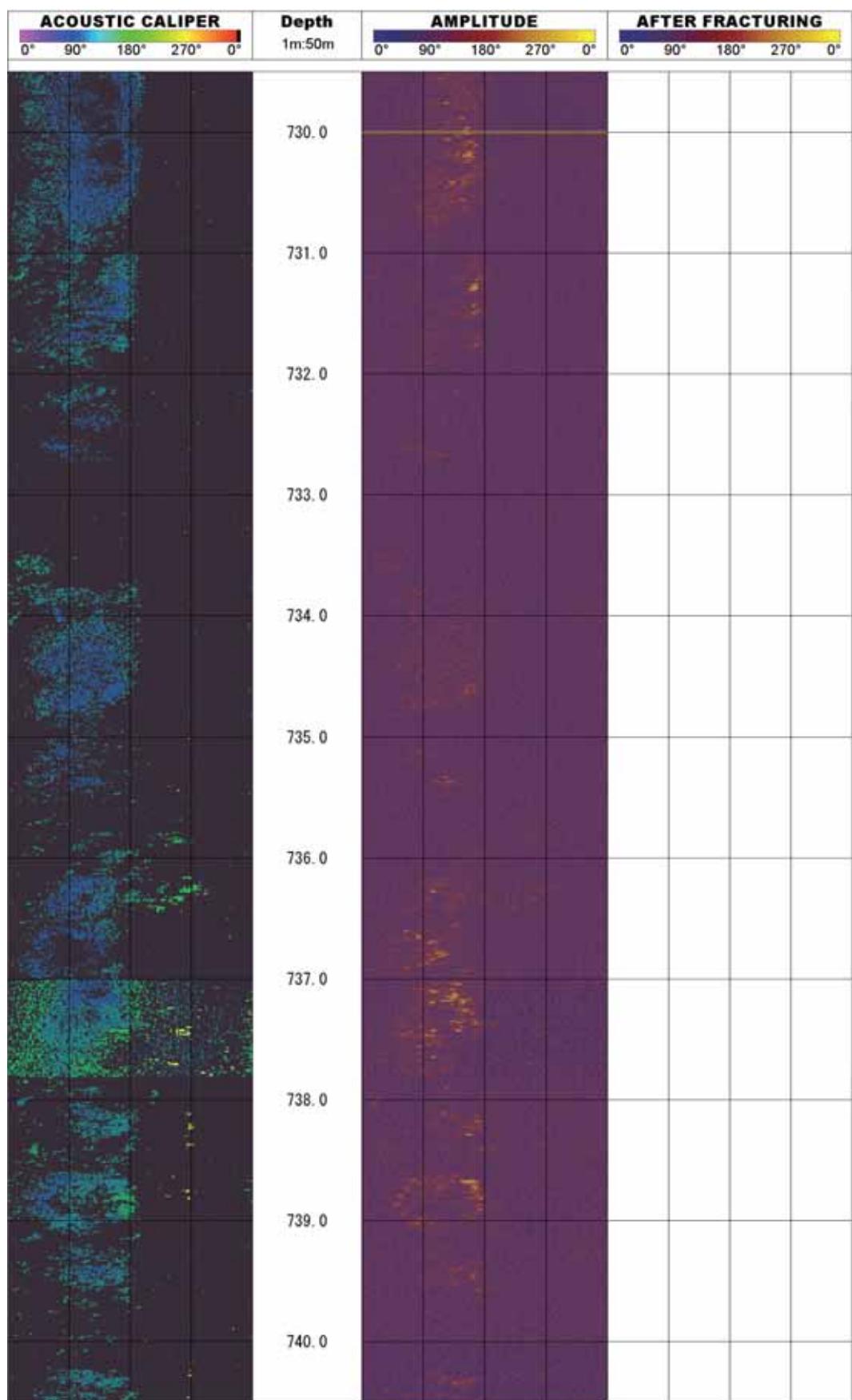
垂直孔 (vertical hole)



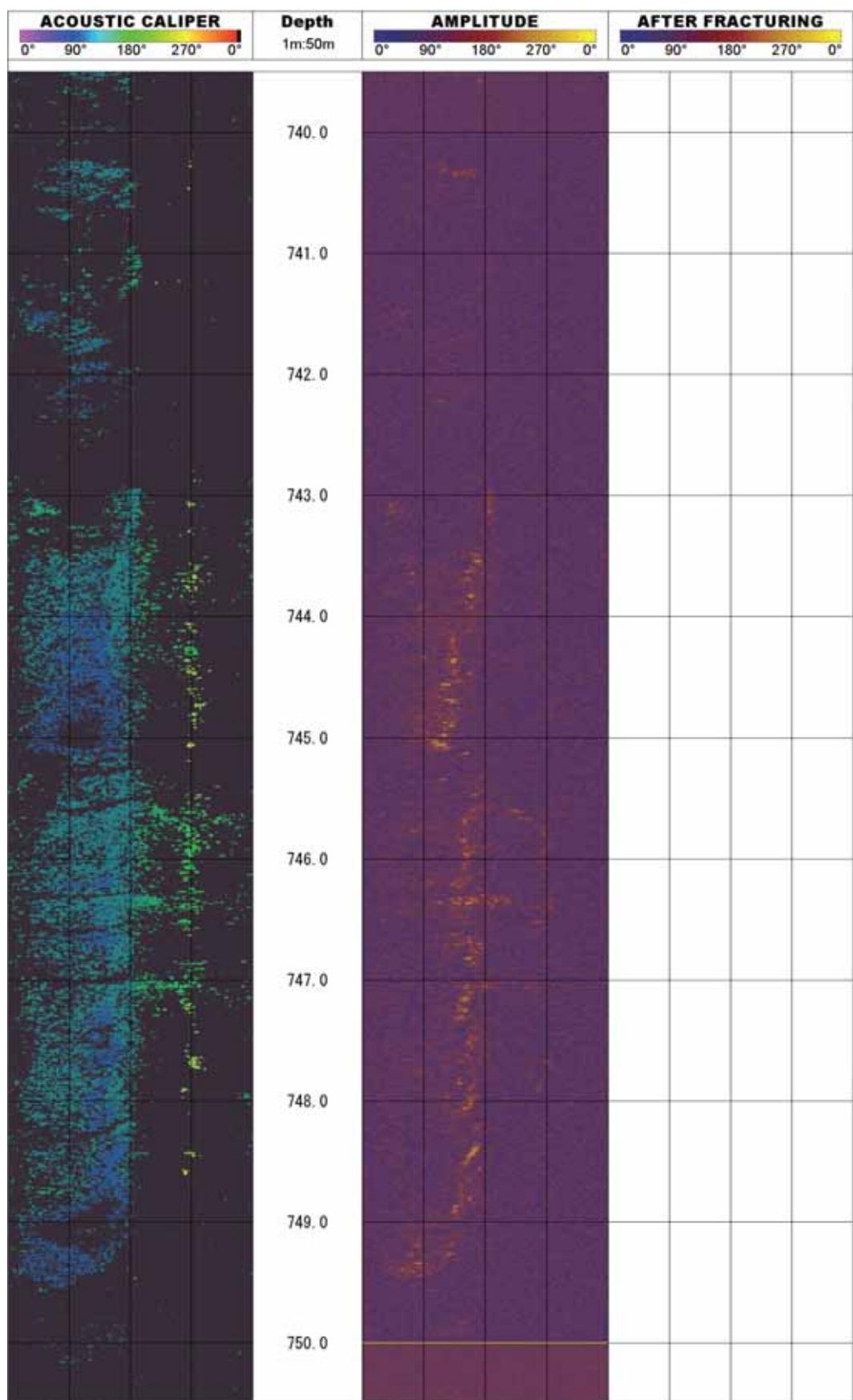
垂直孔 (vertical hole)



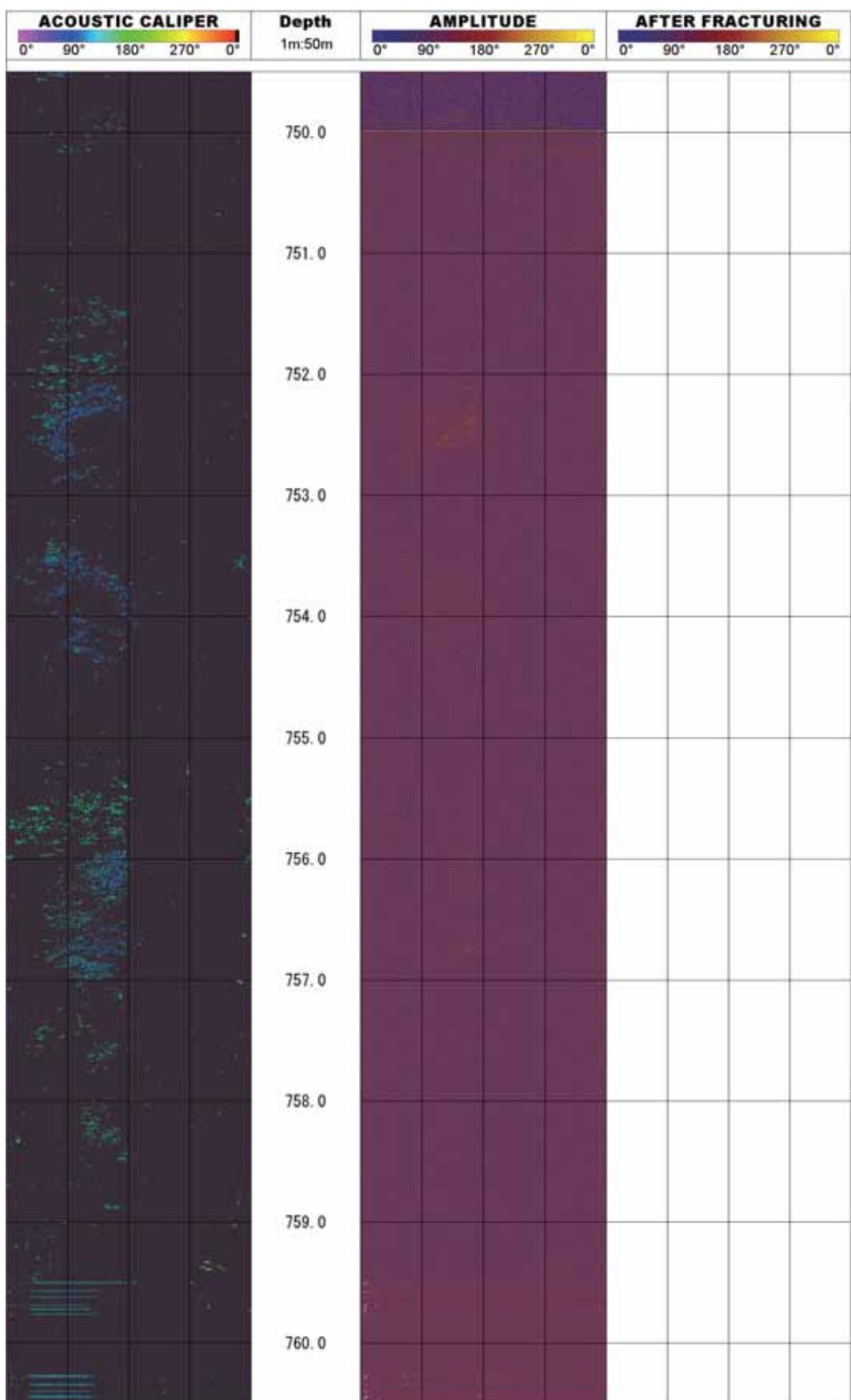
垂直孔 (vertical hole)



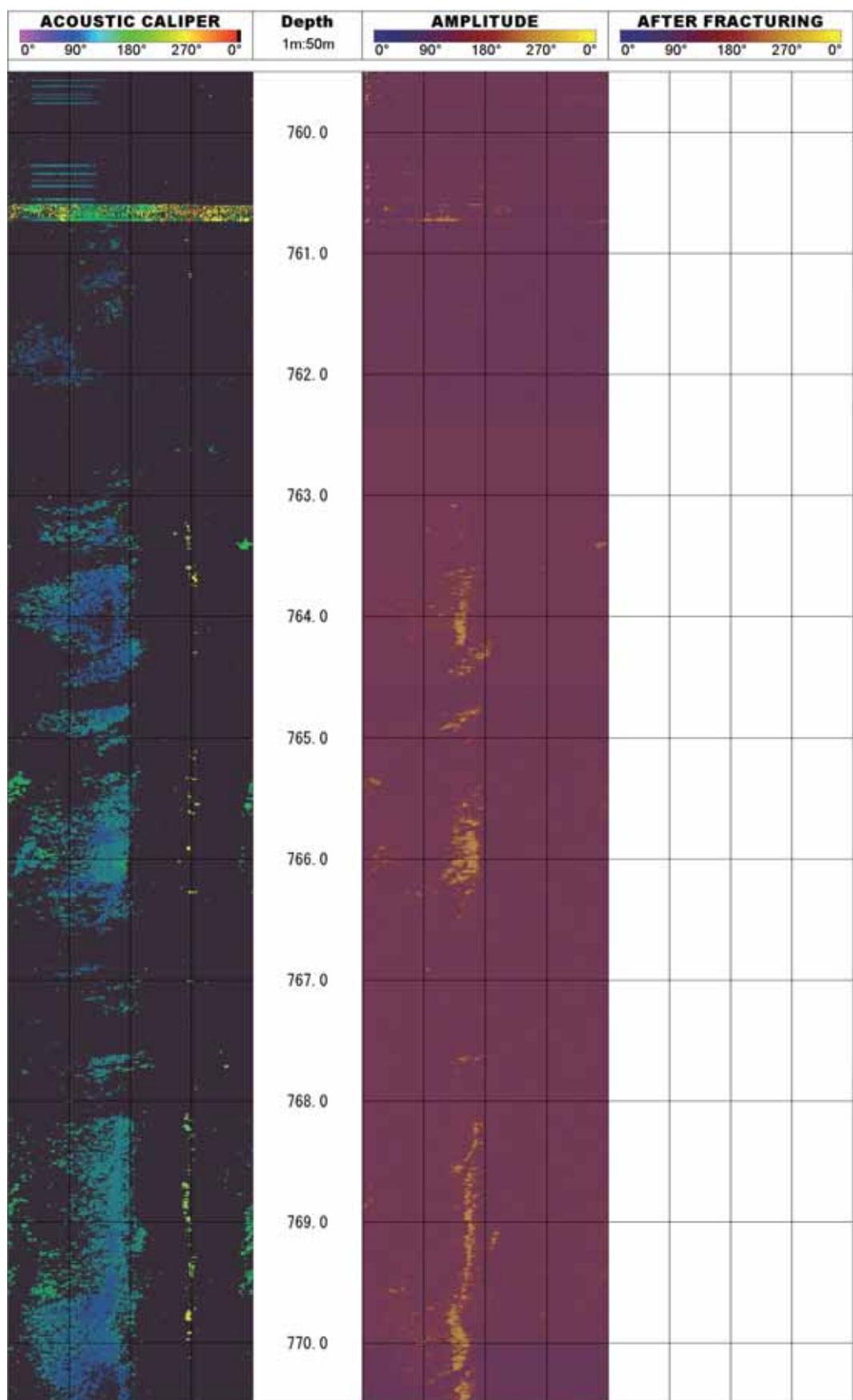
垂直孔 (vertical hole)



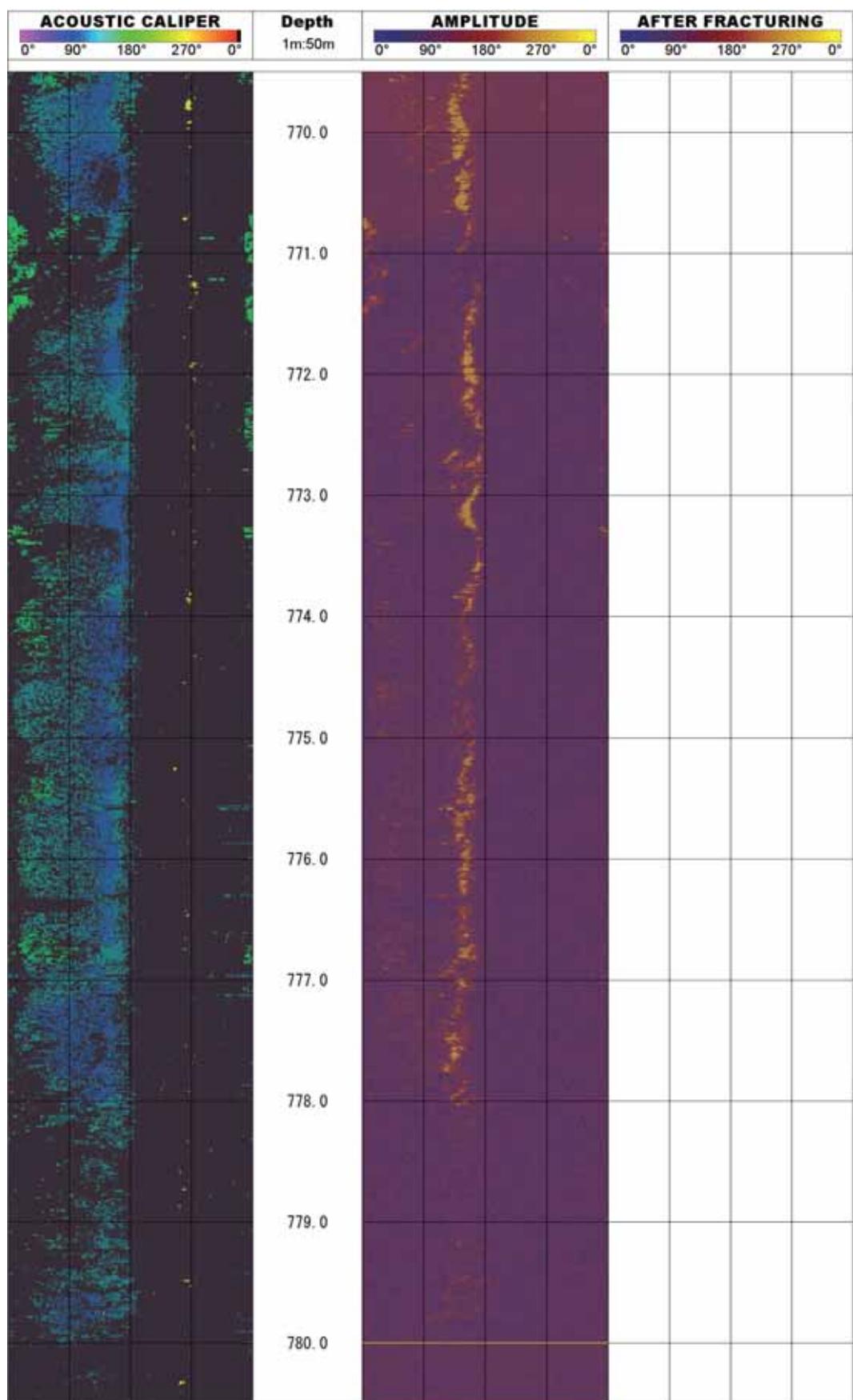
垂直孔 (vertical hole)



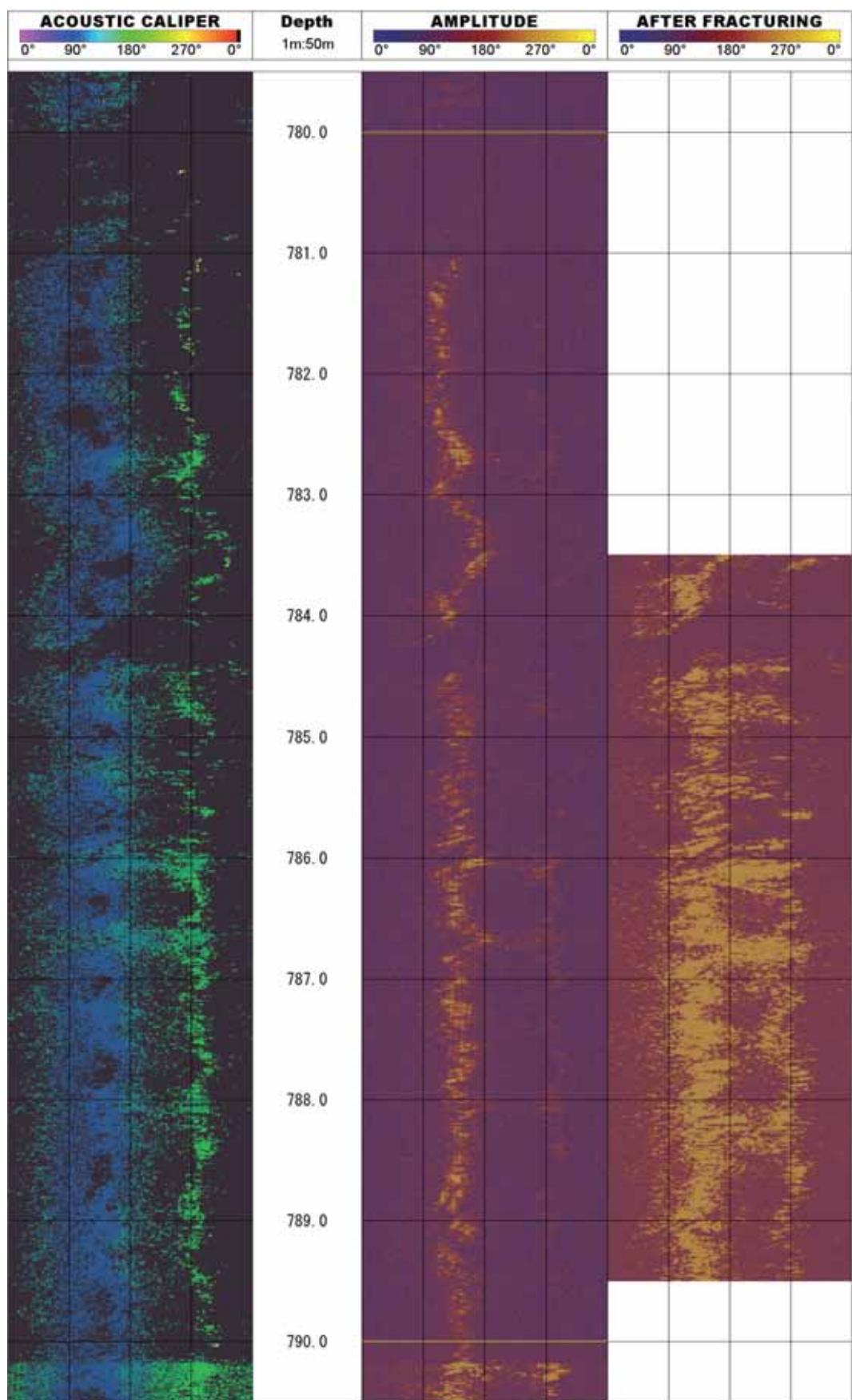
垂直孔 (vertical hole)



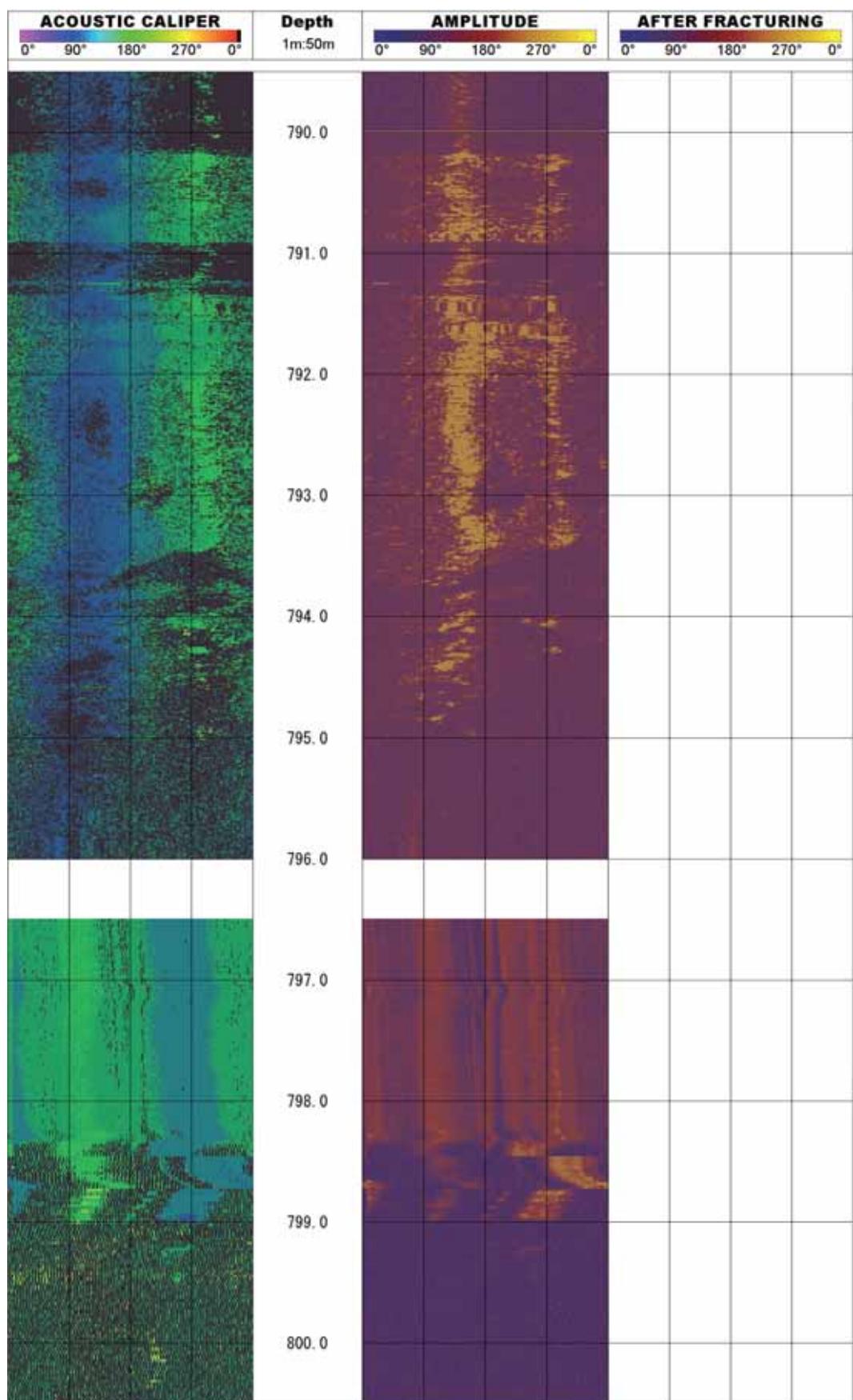
垂直孔 (vertical hole)



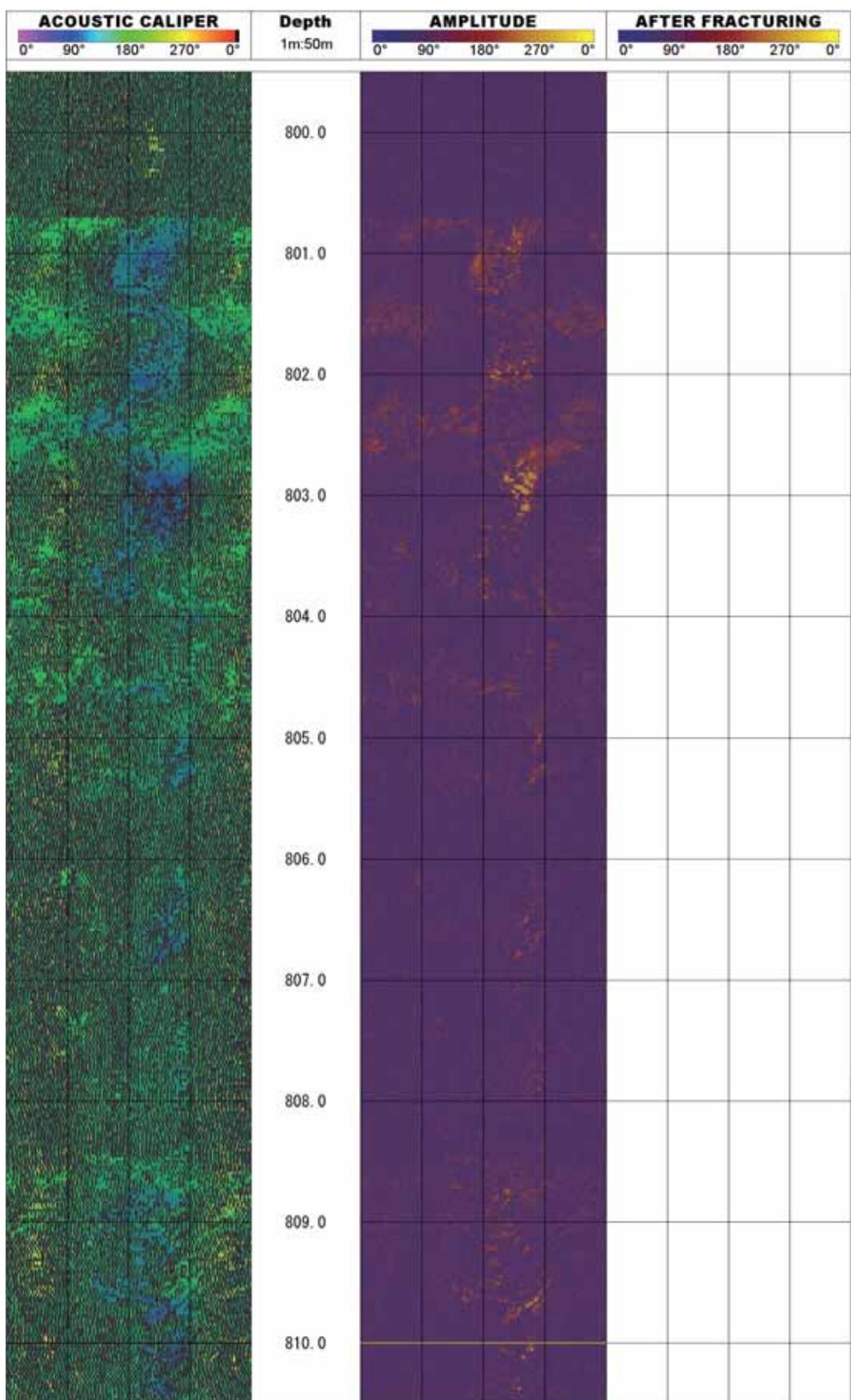
垂直孔 (vertical hole)



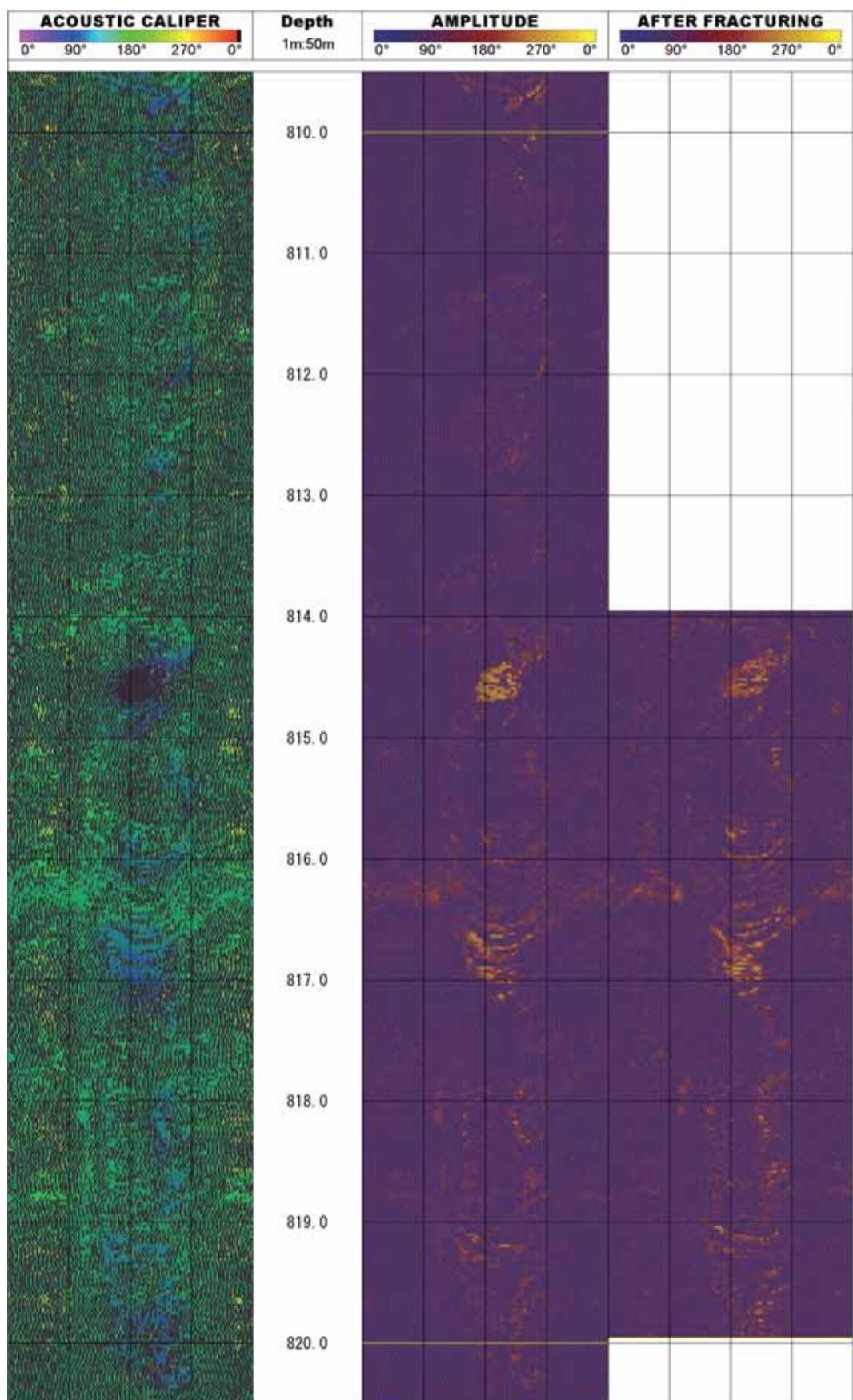
垂直孔 (vertical hole)



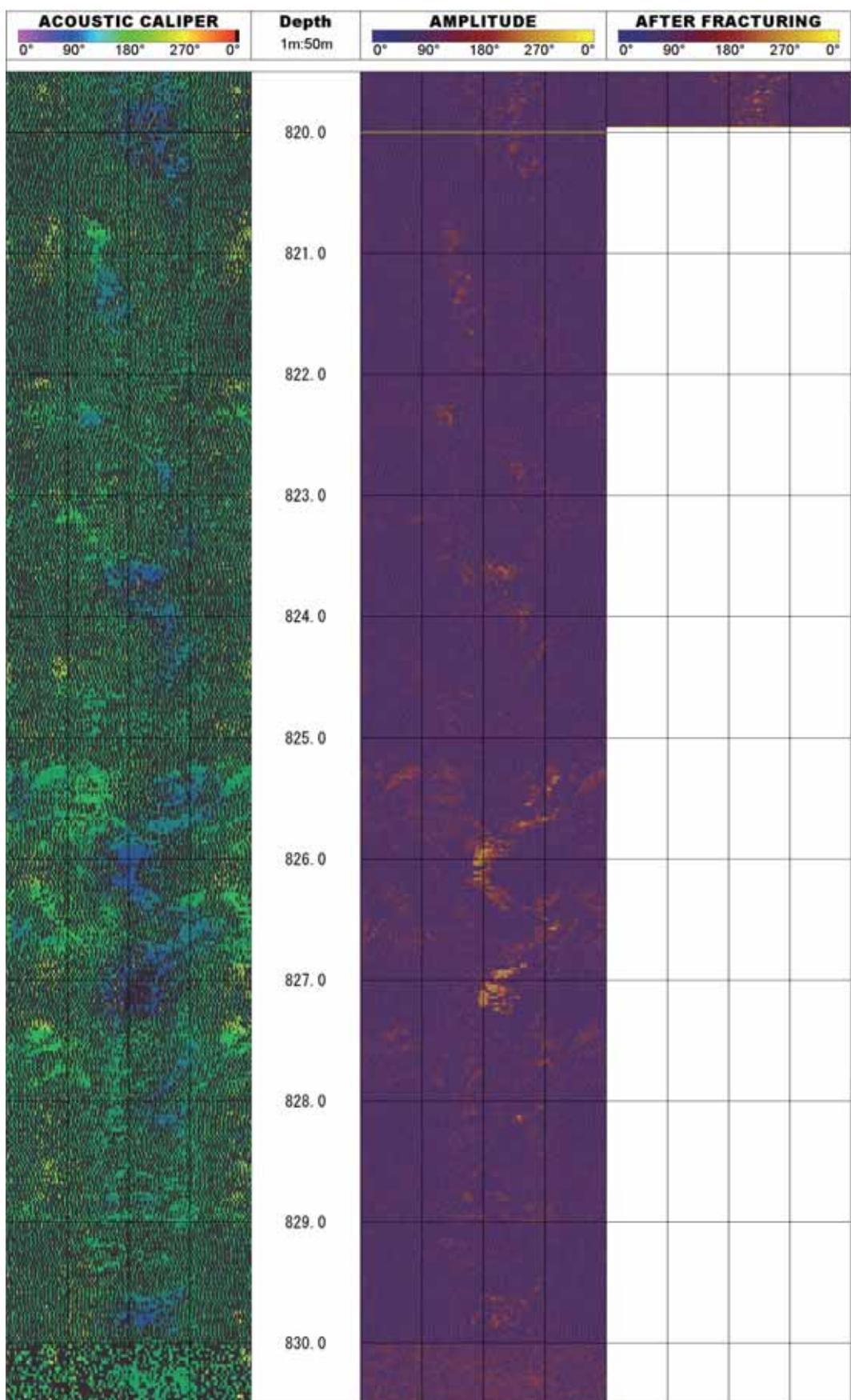
垂直孔 (vertical hole)



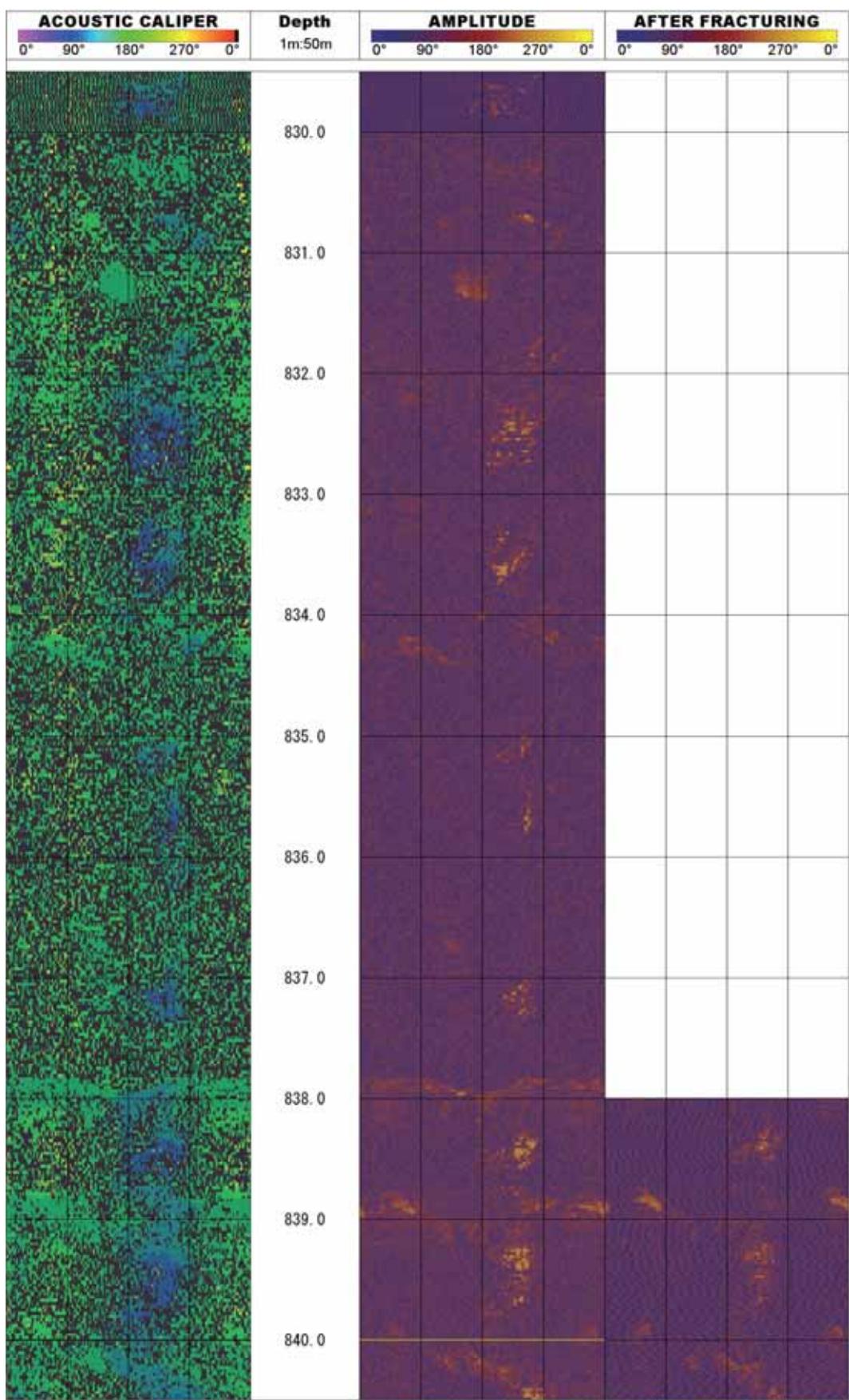
垂直孔 (vertical hole)



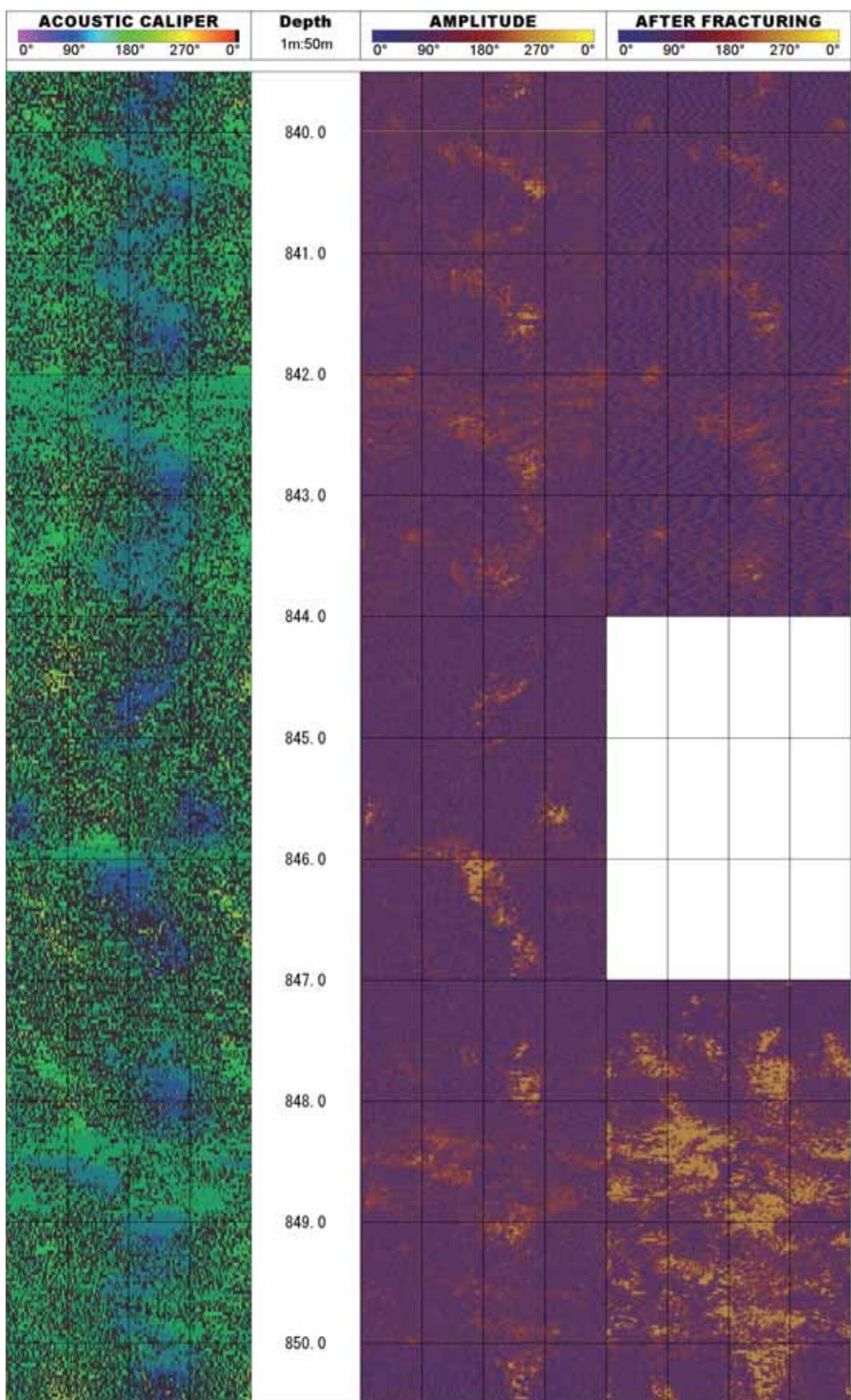
垂直孔 (vertical hole)



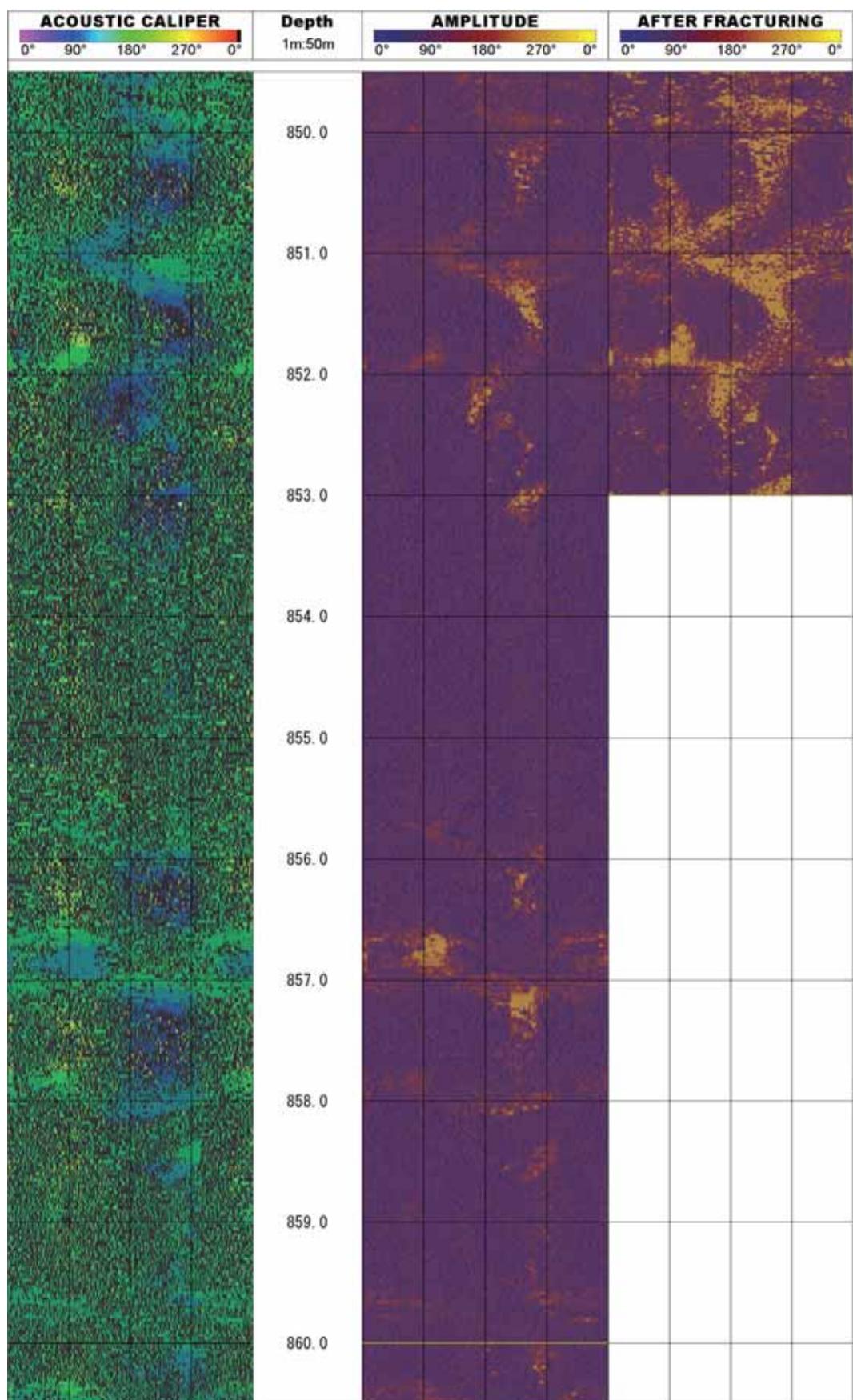
垂直孔 (vertical hole)



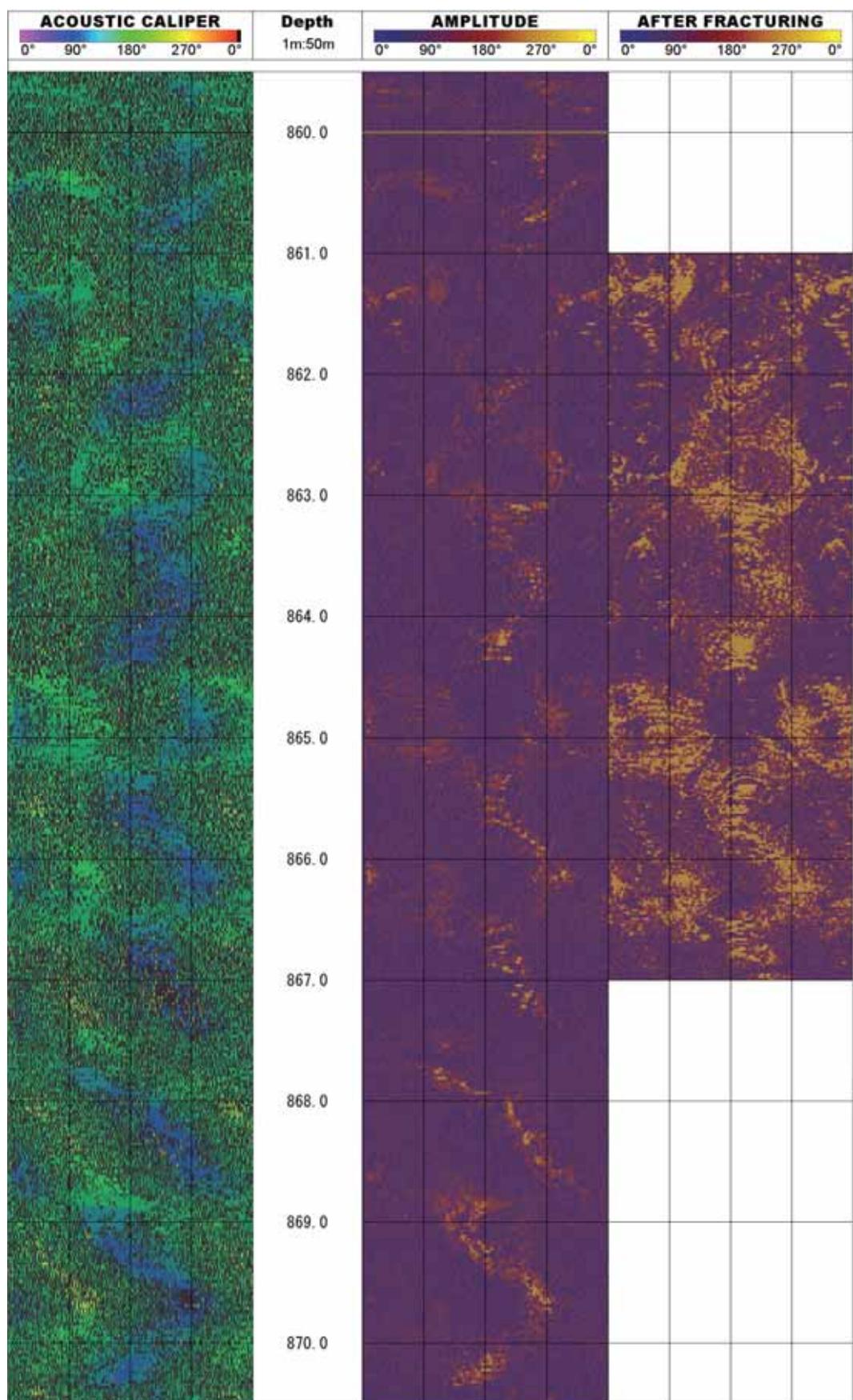
垂直孔 (vertical hole)



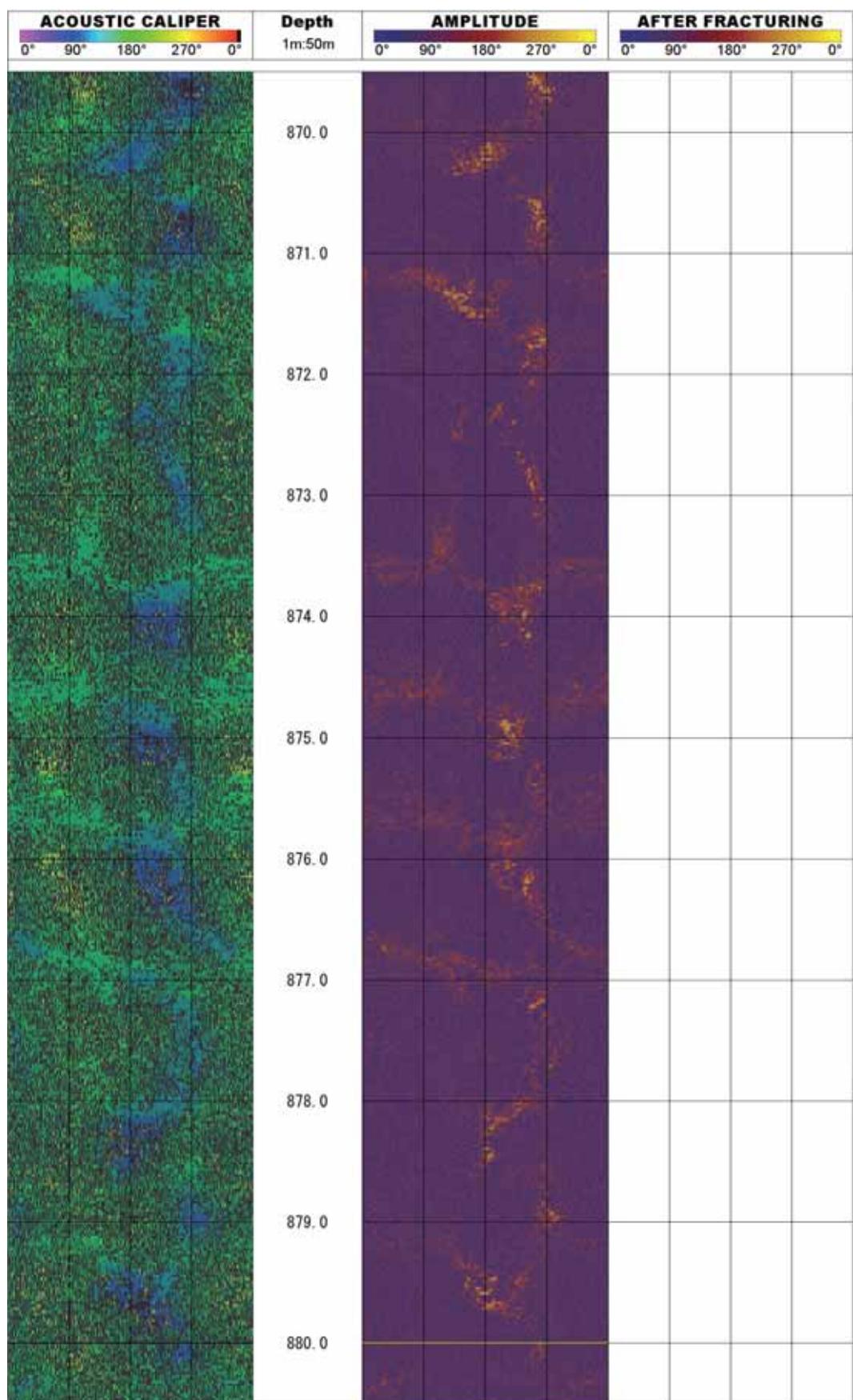
垂直孔 (vertical hole)



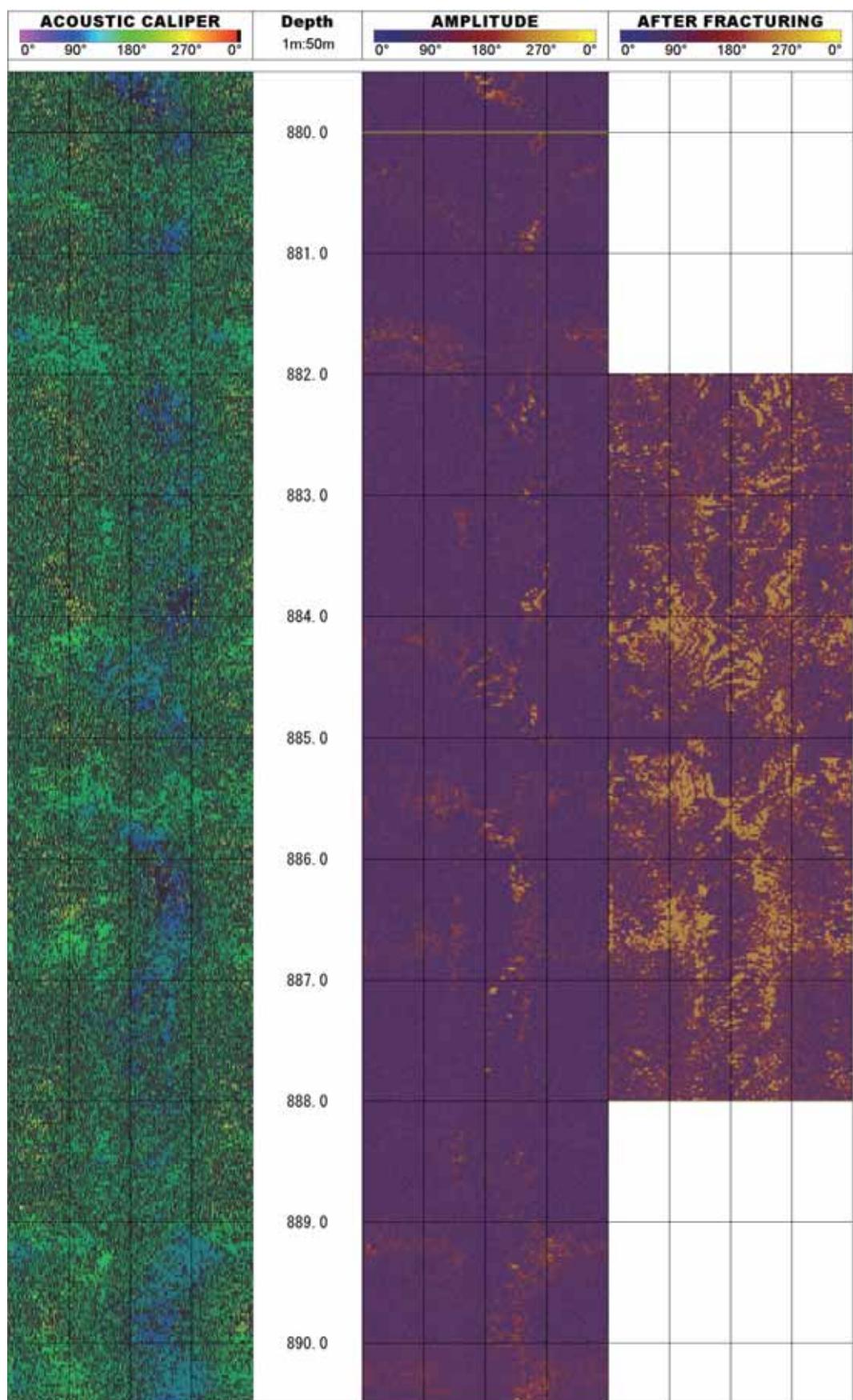
垂直孔 (vertical hole)



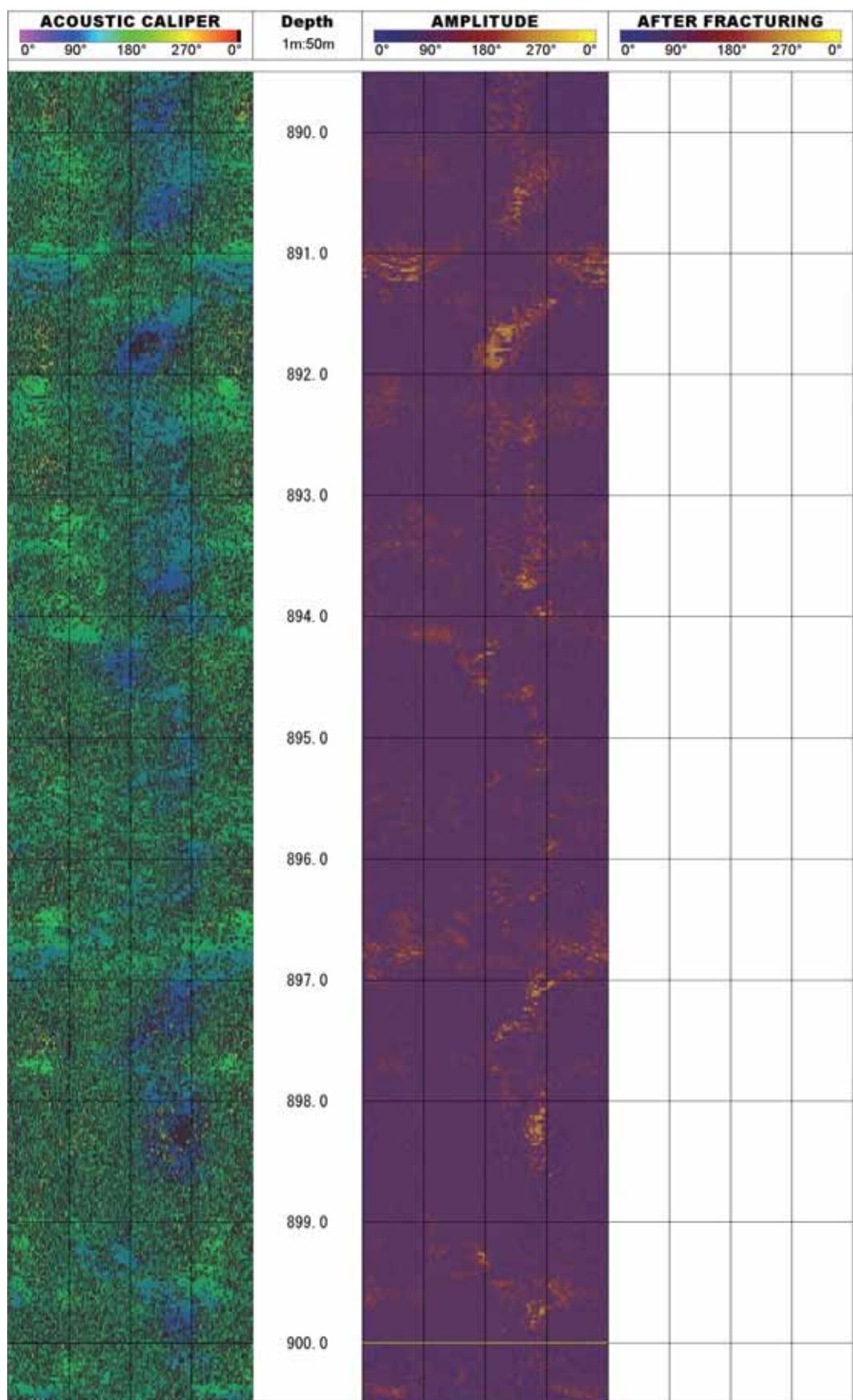
垂直孔 (vertical hole)



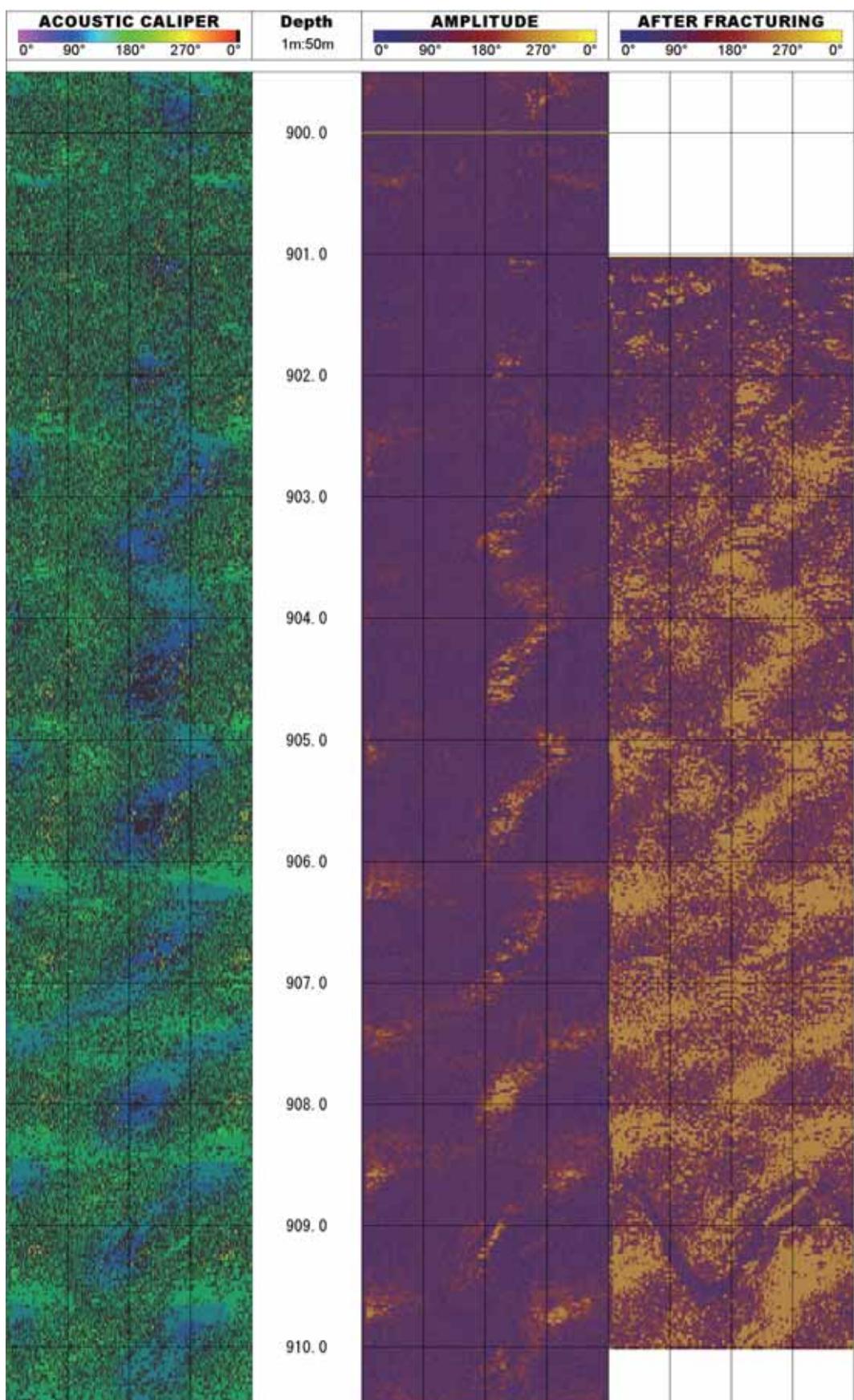
垂直孔 (vertical hole)



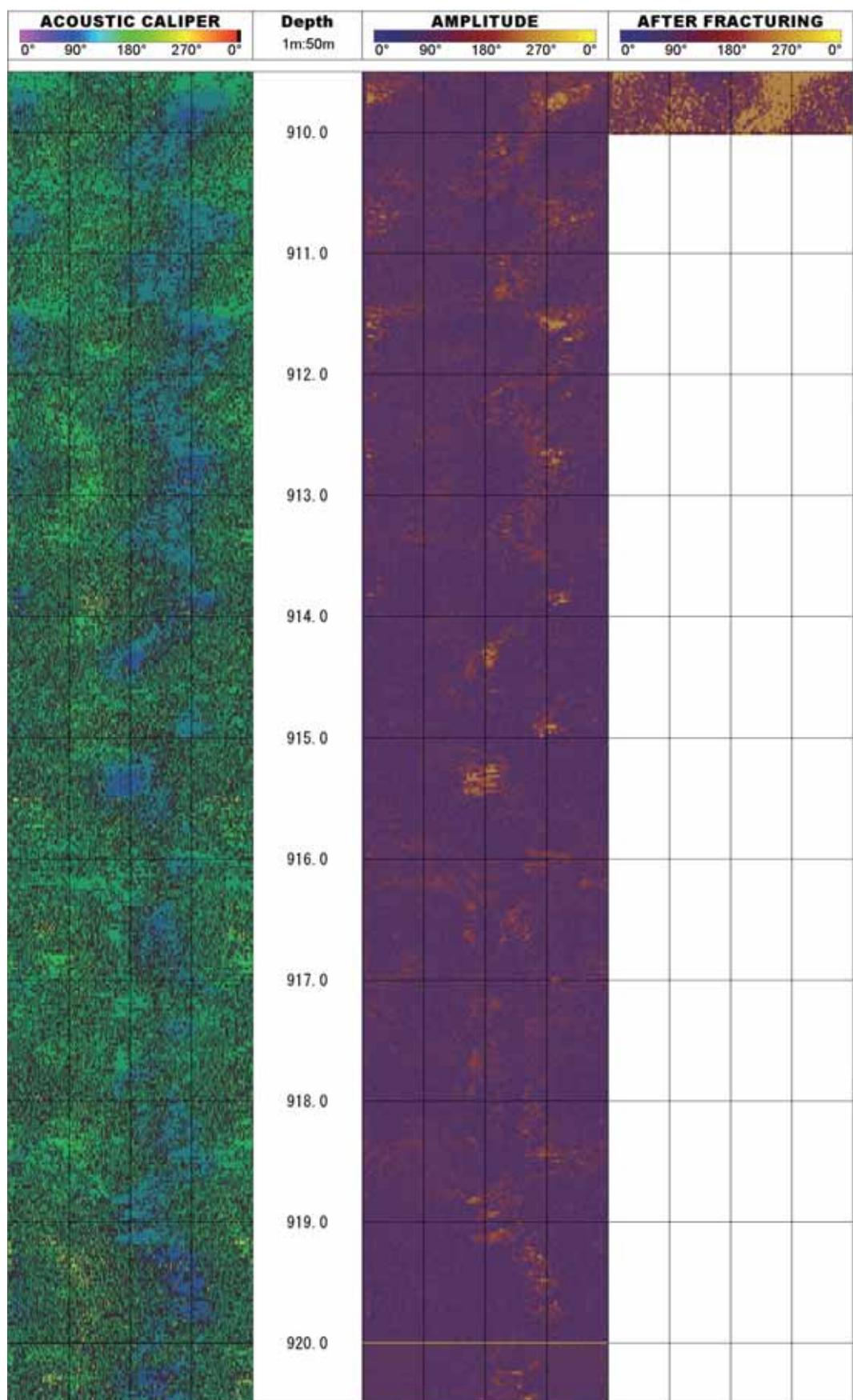
垂直孔 (vertical hole)



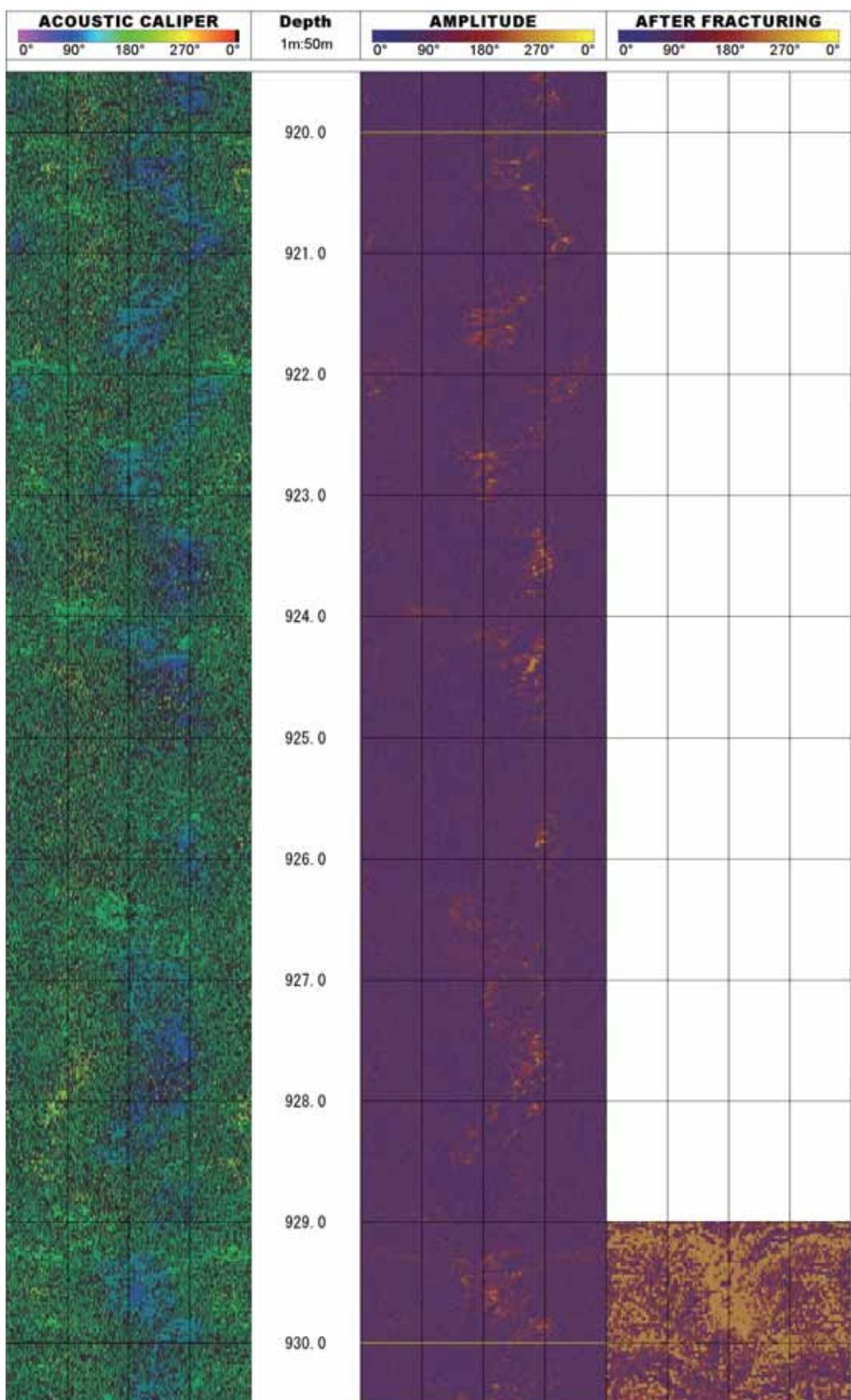
垂直孔 (vertical hole)



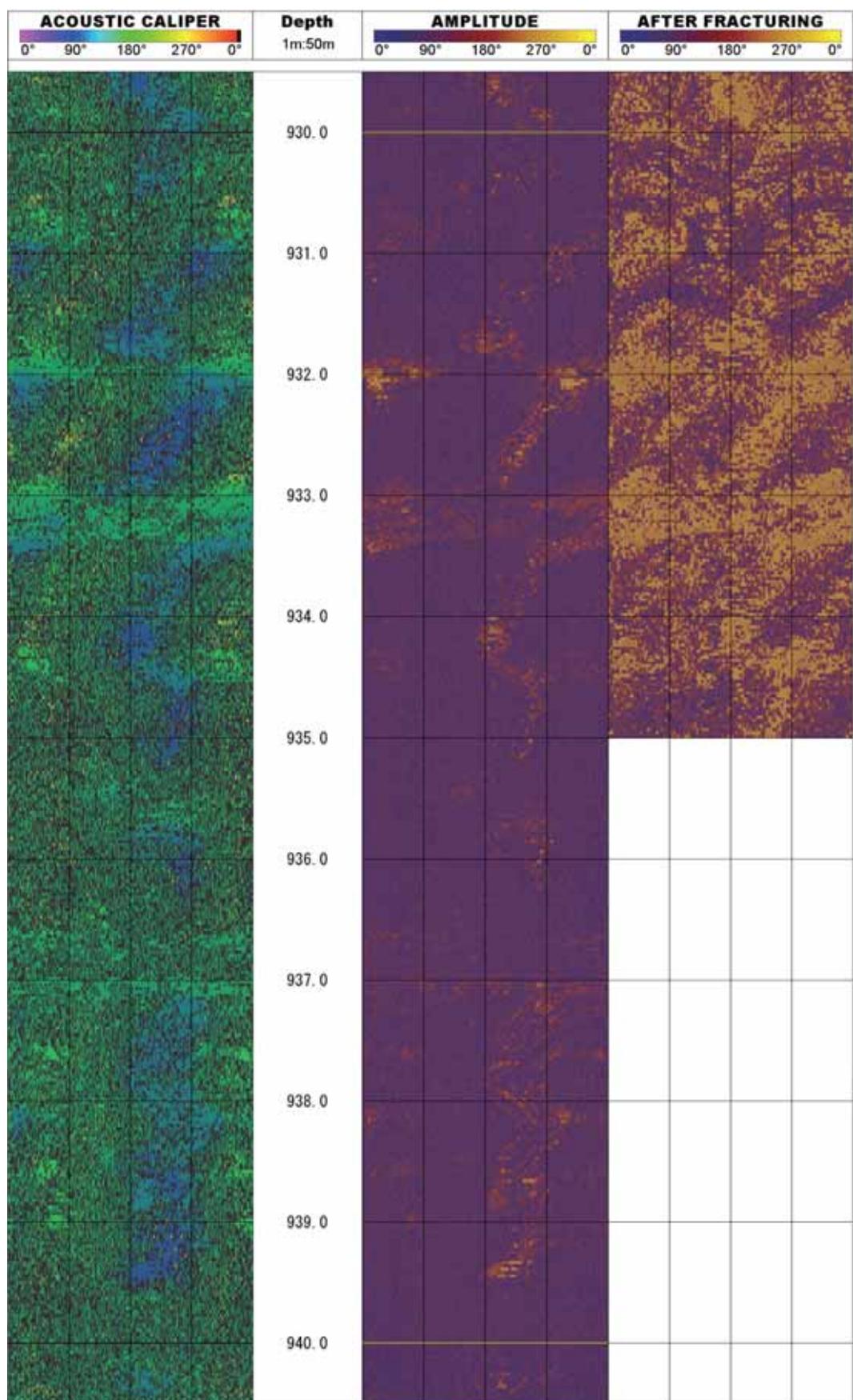
垂直孔 (vertical hole)



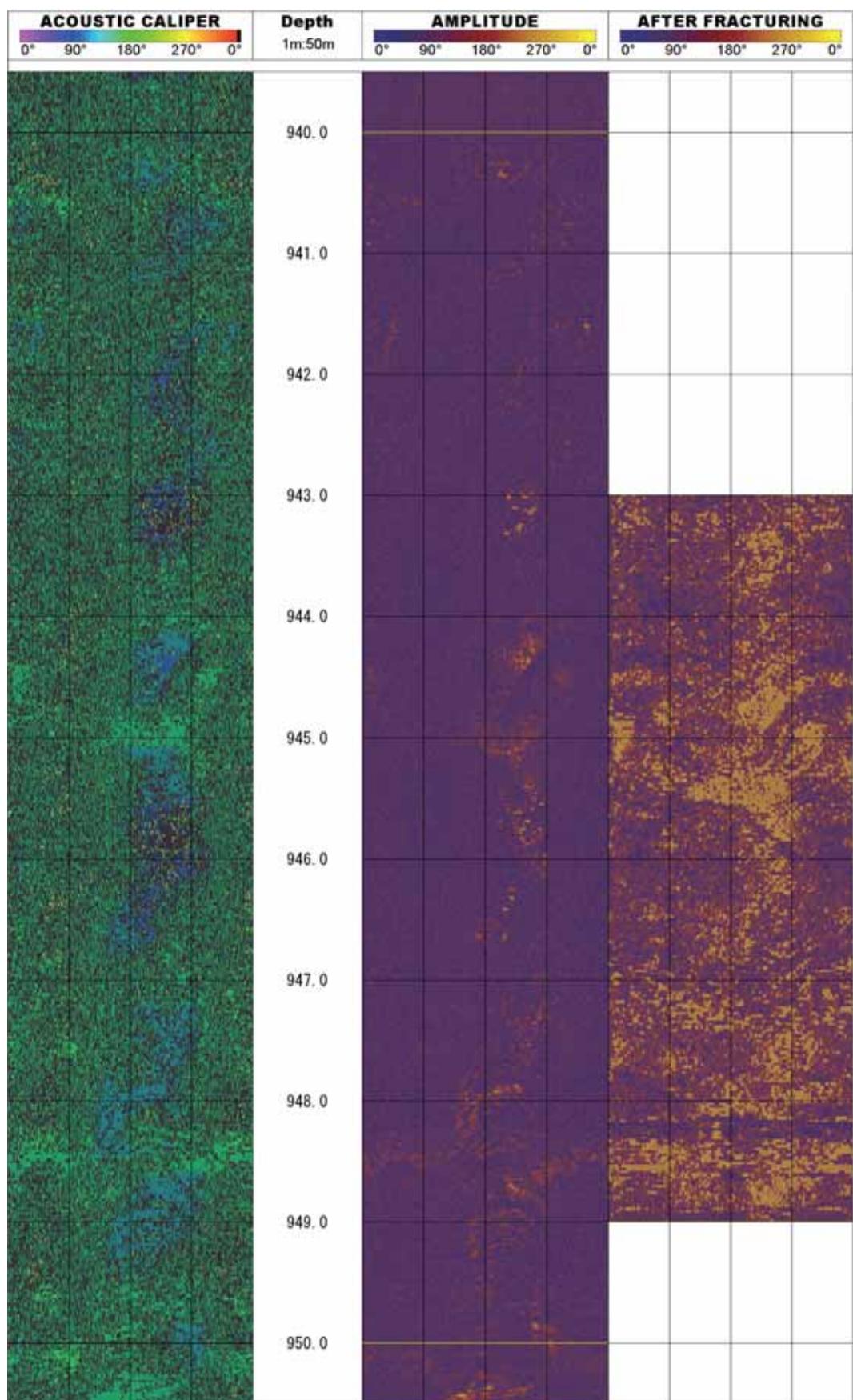
垂直孔 (vertical hole)



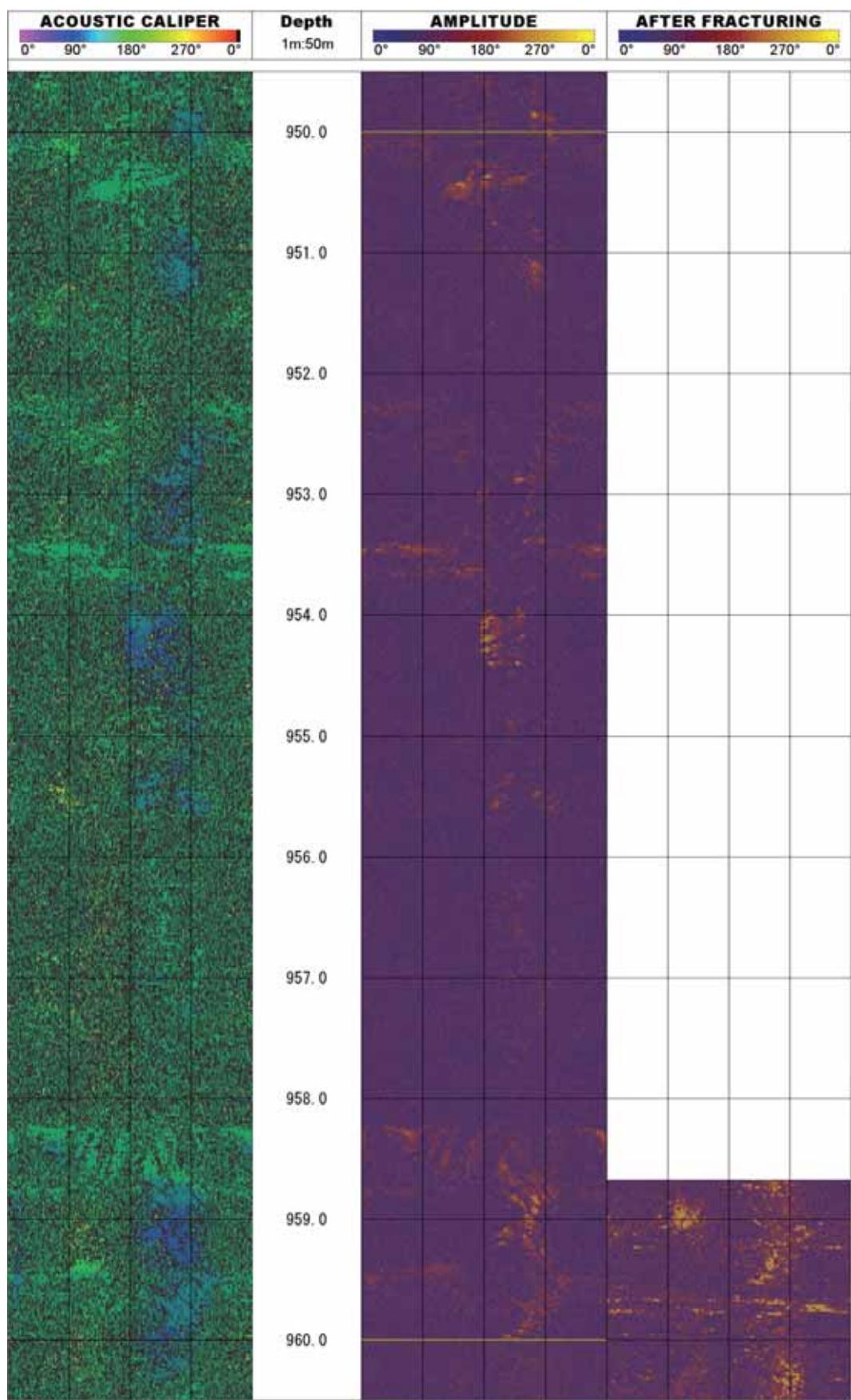
垂直孔 (vertical hole)



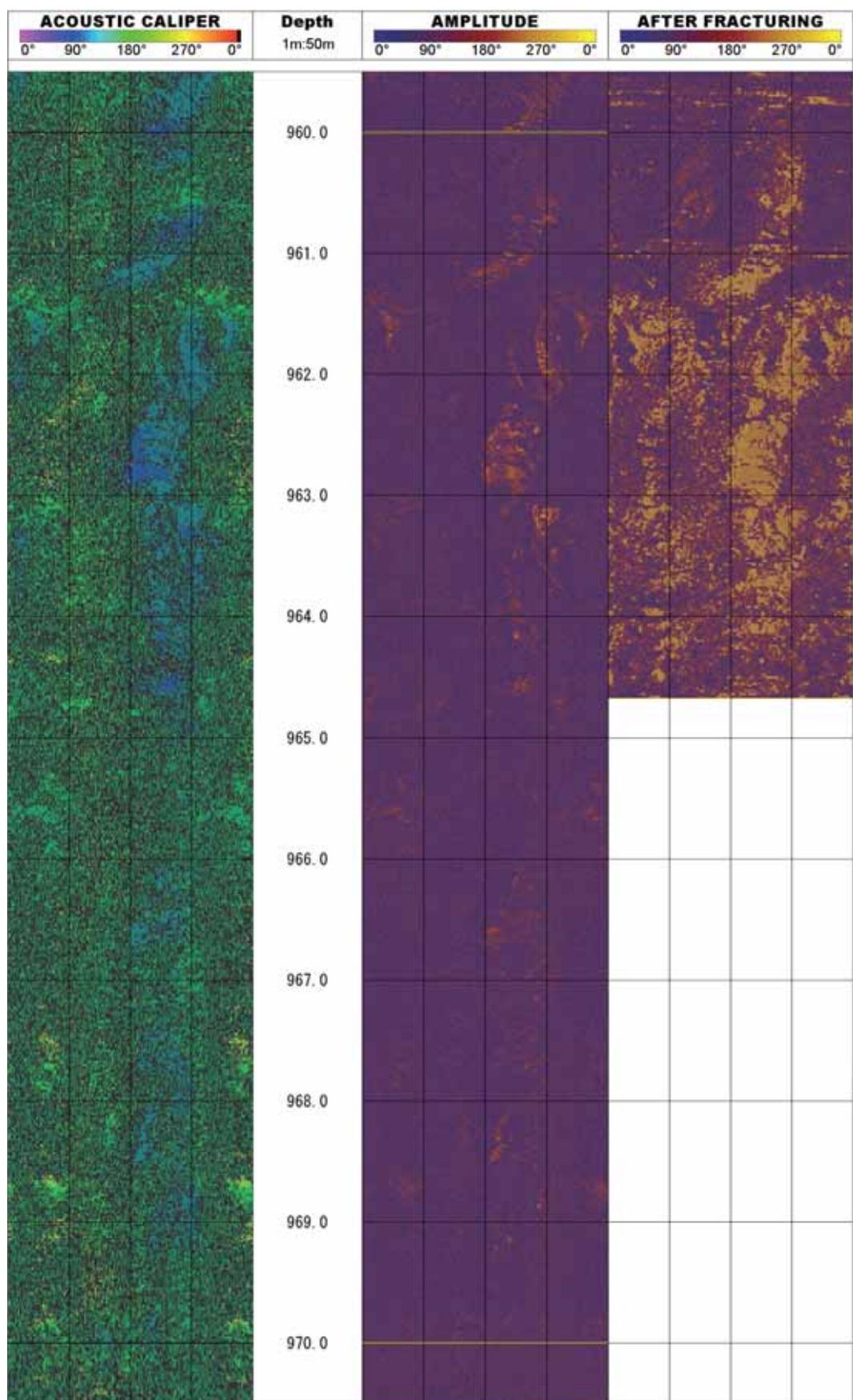
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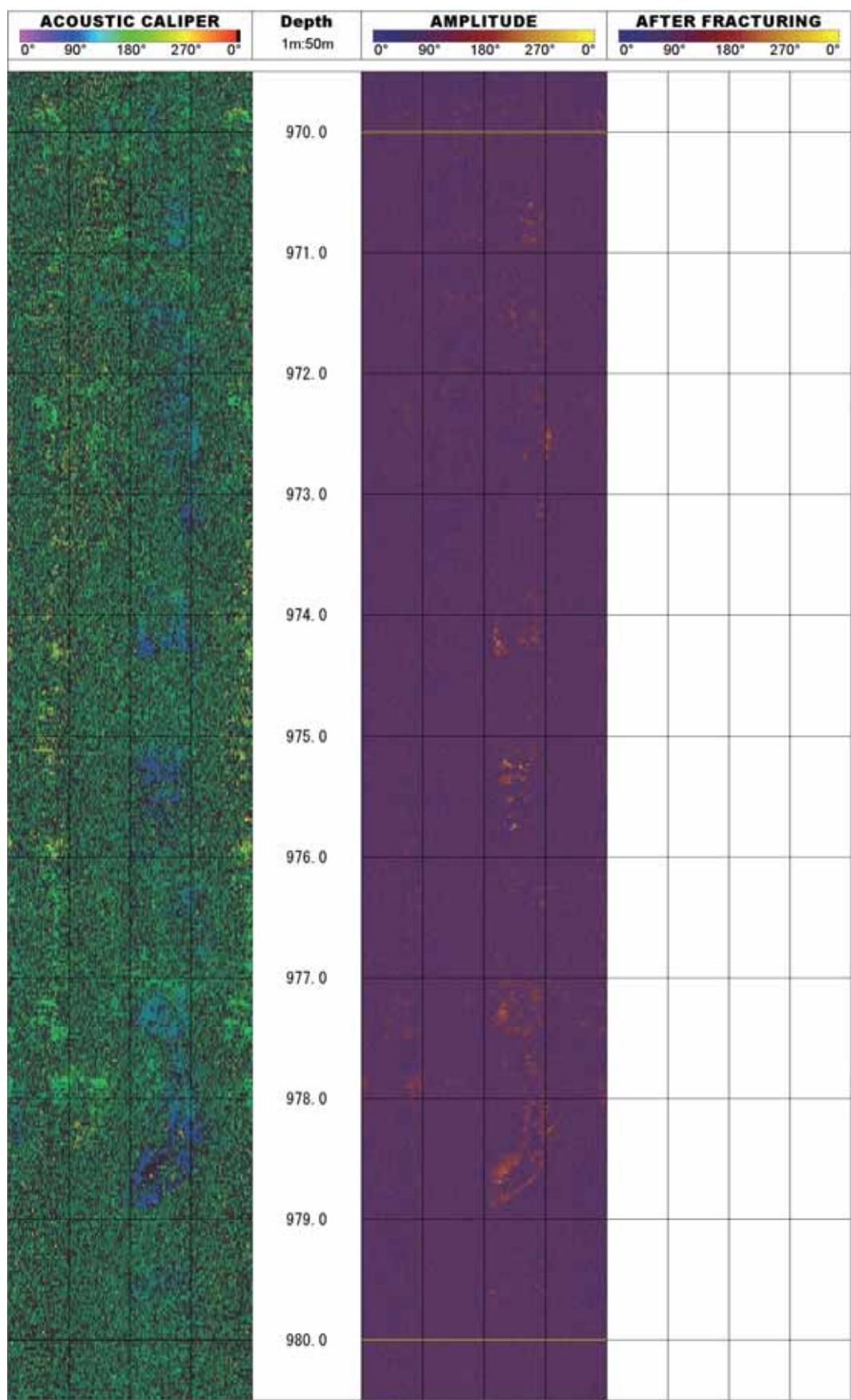
垂直孔 (vertical hole)



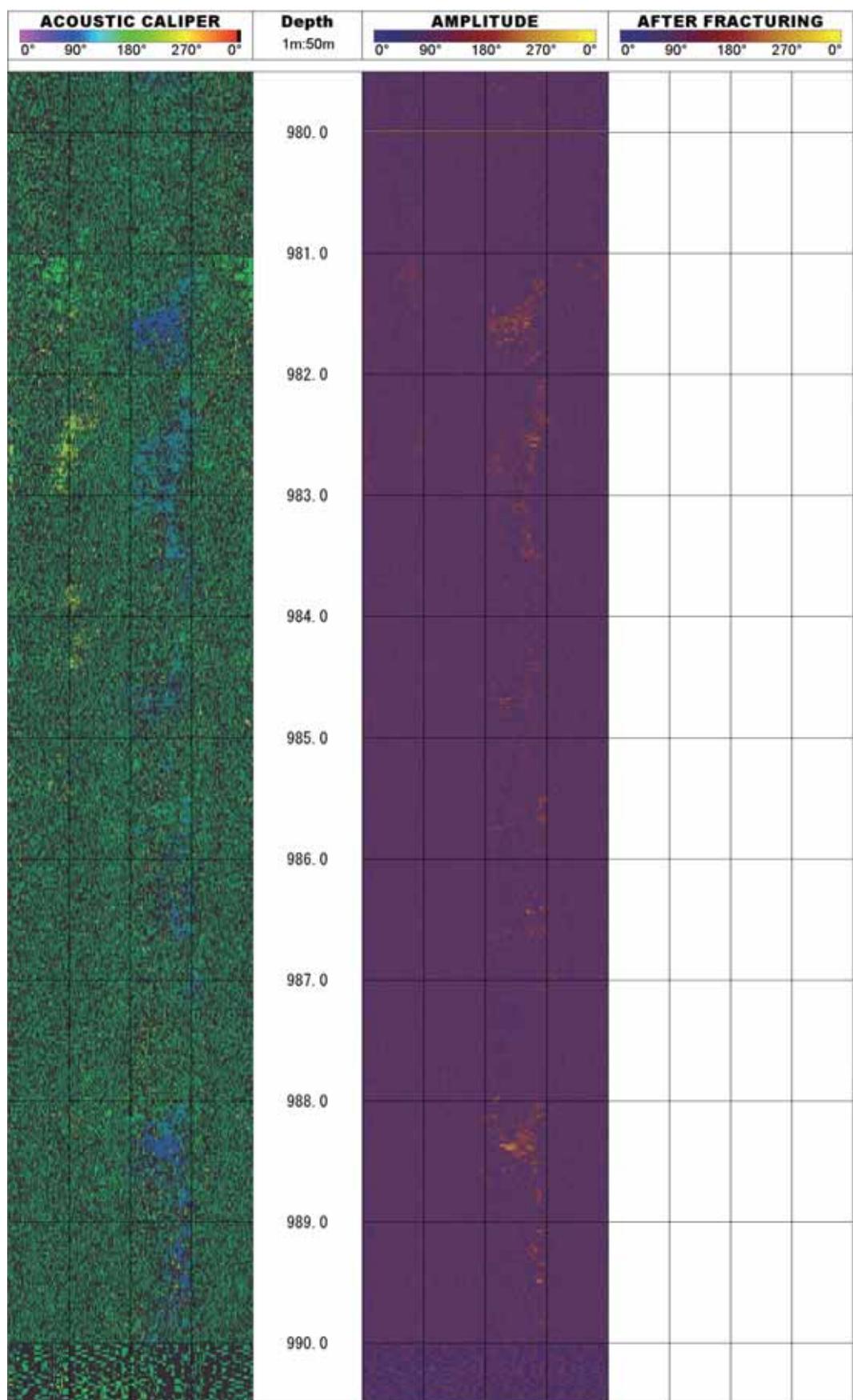
垂直孔 (vertical hole)



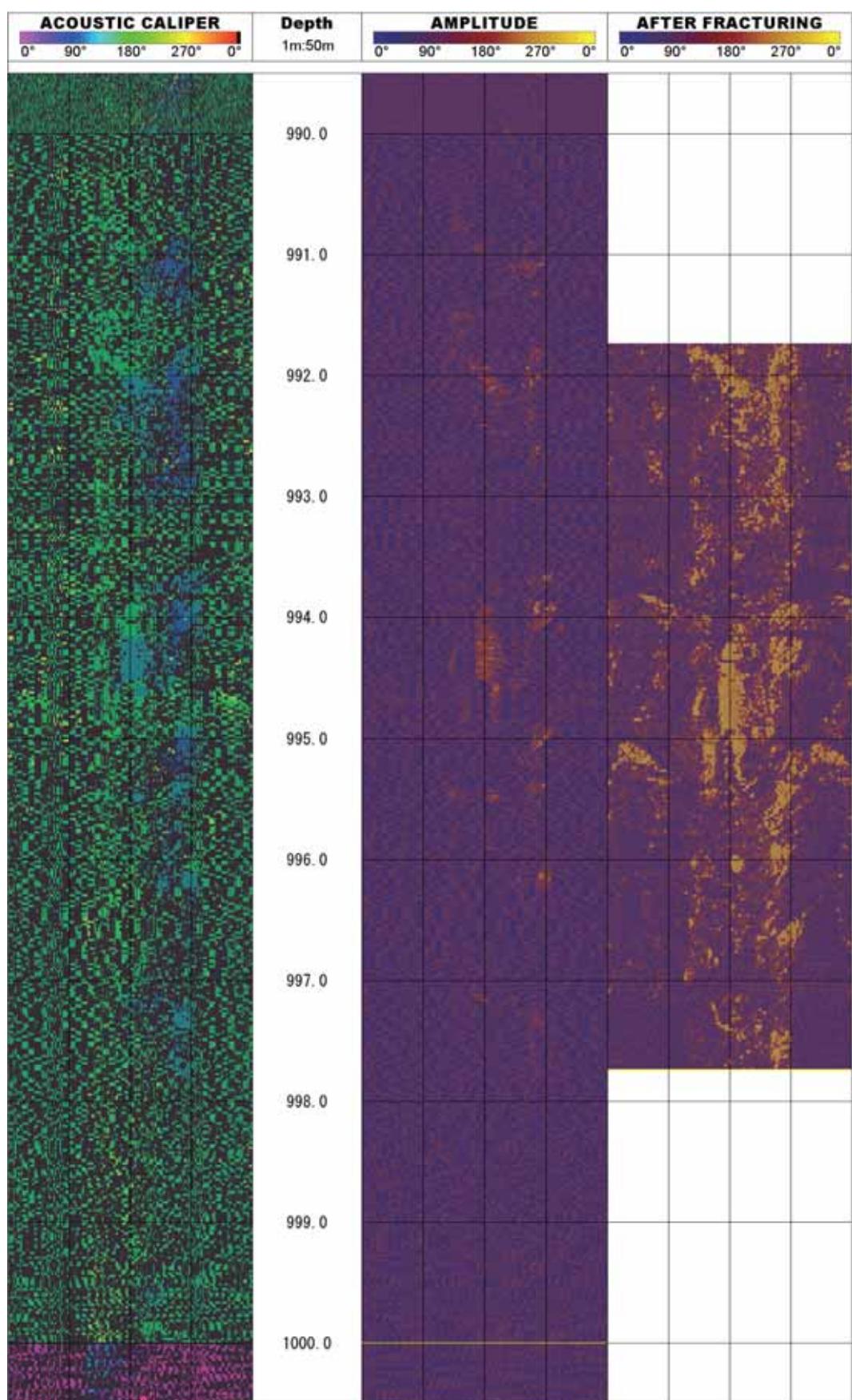
垂直孔 (vertical hole)



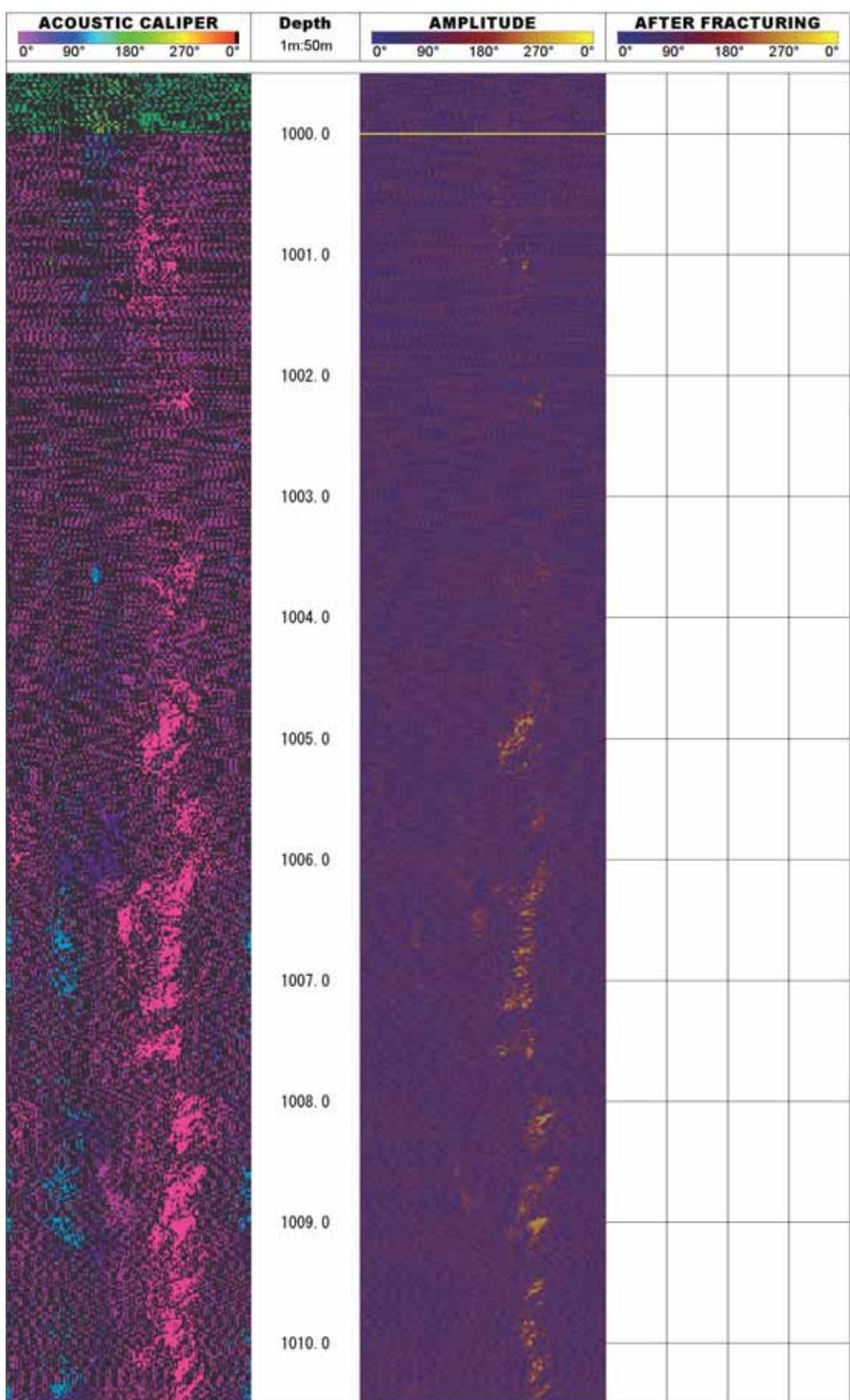
垂直孔 (vertical hole)



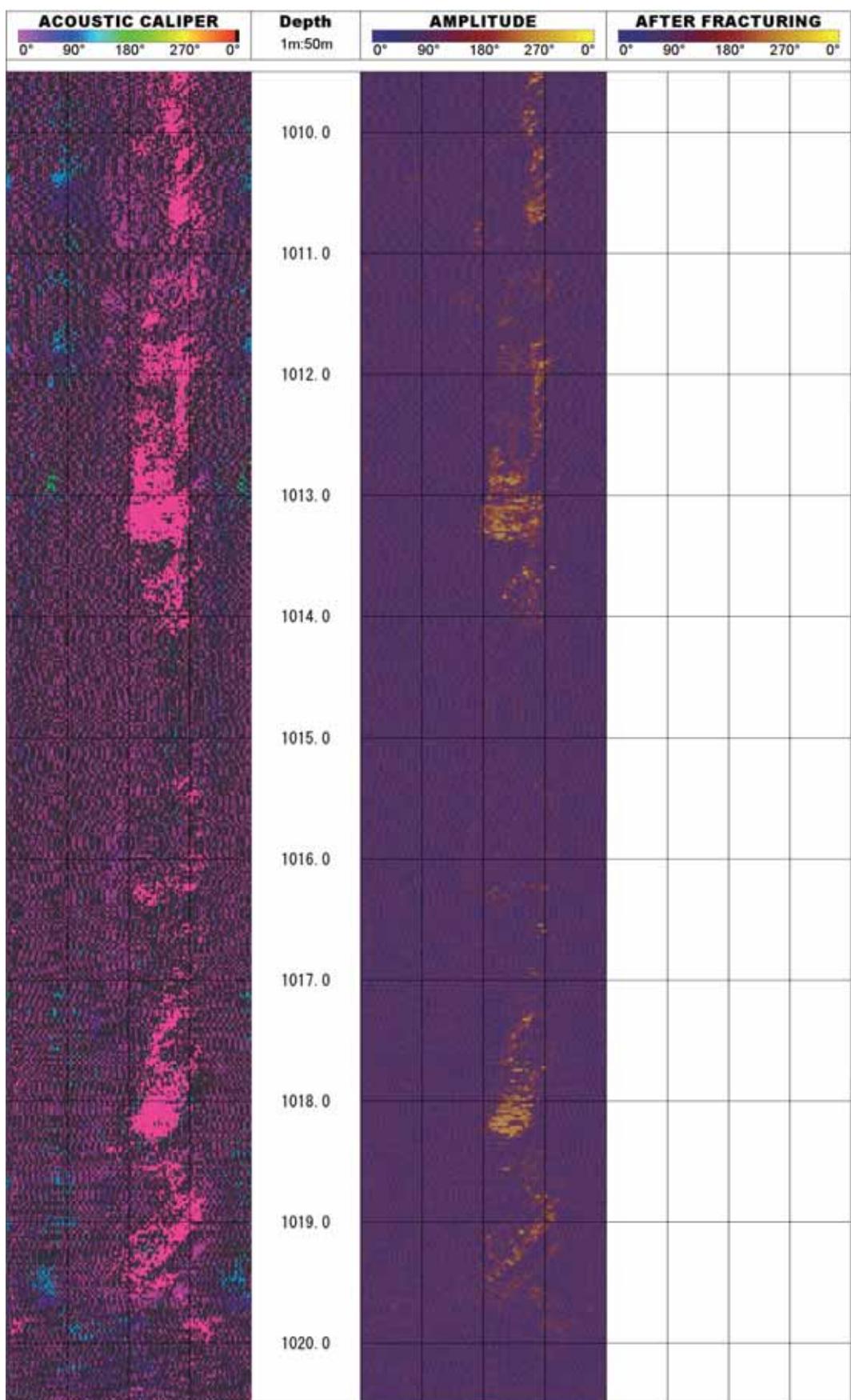
垂直孔 (vertical hole)



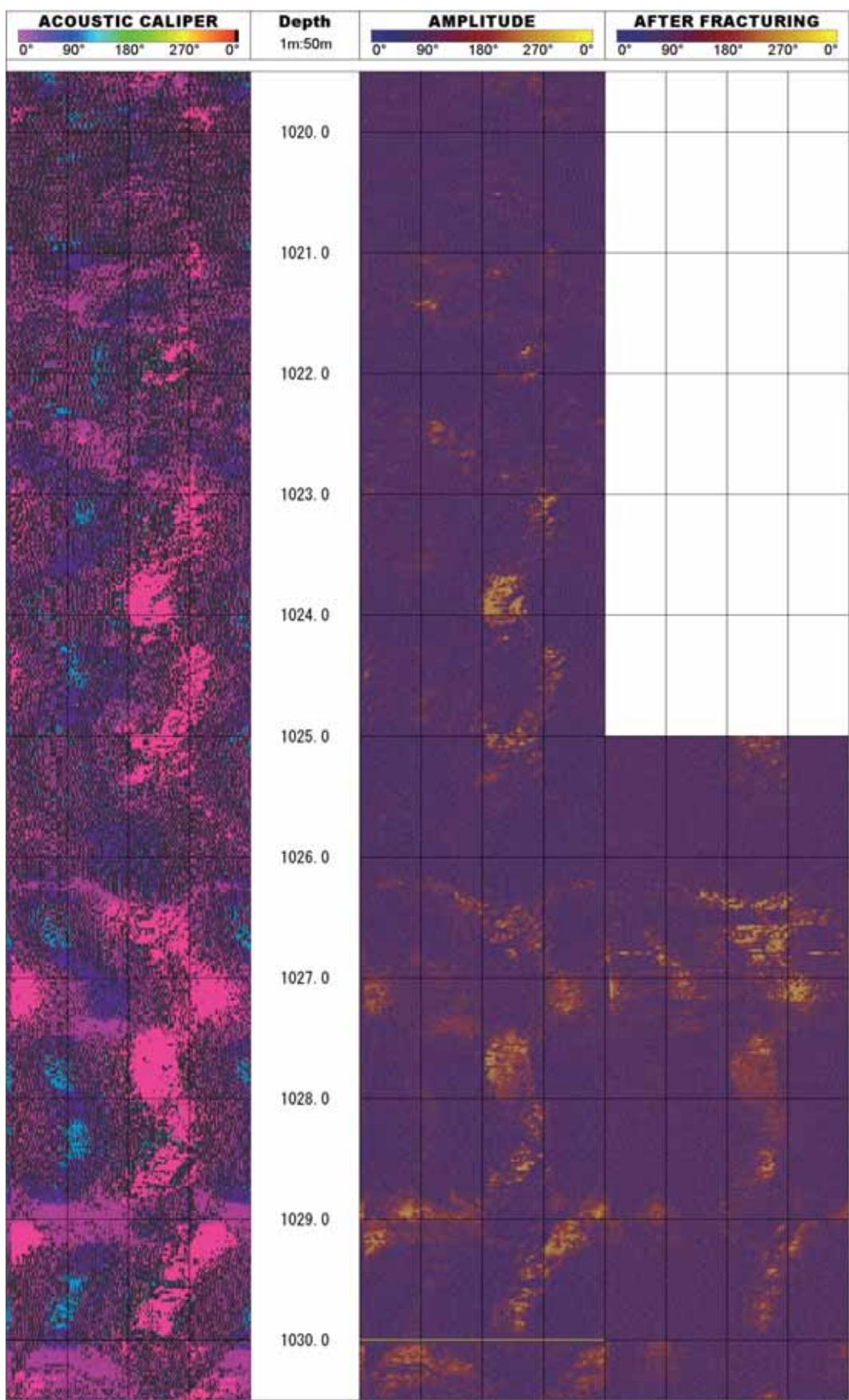
垂直孔 (vertical hole)



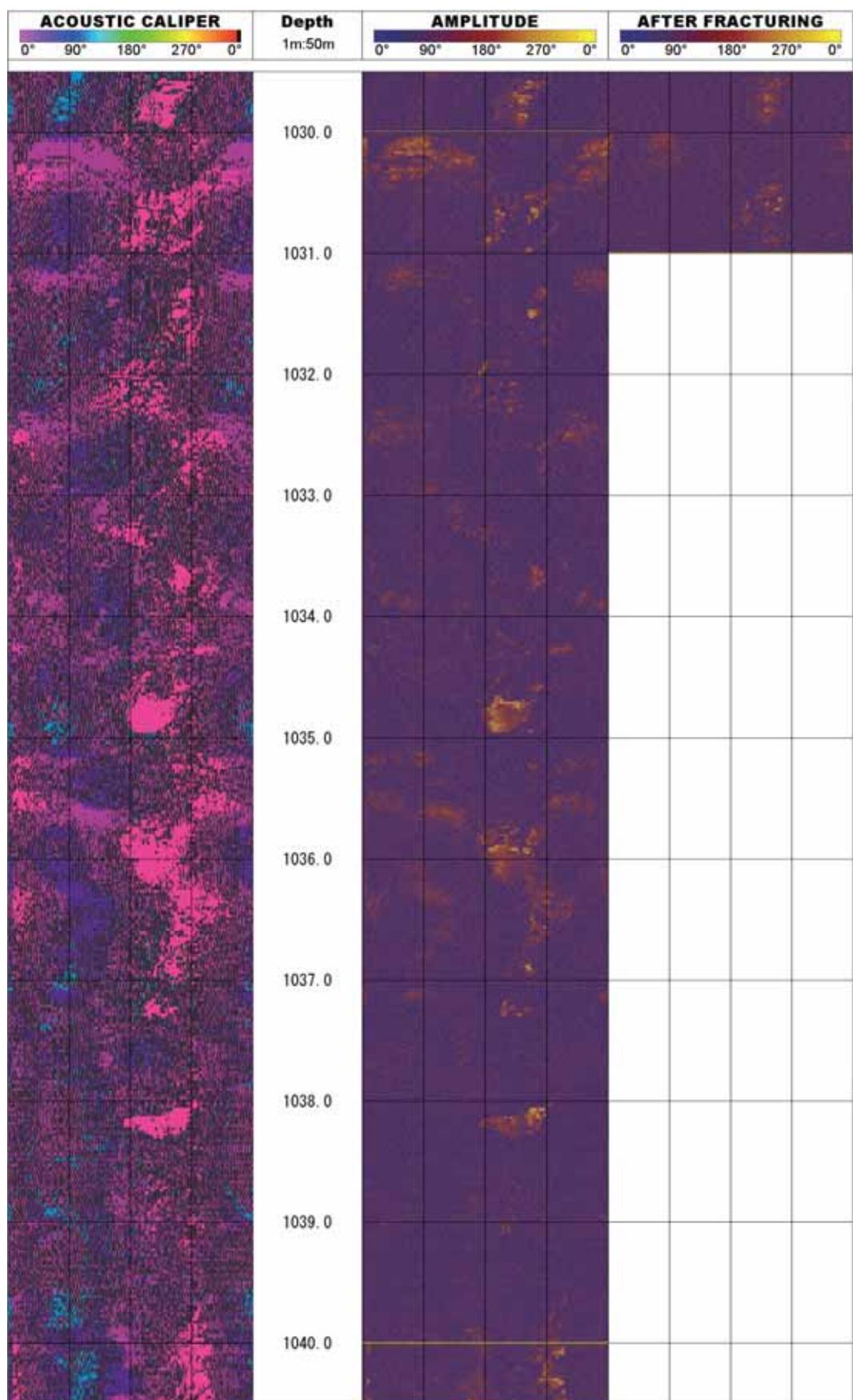
垂直孔 (vertical hole)



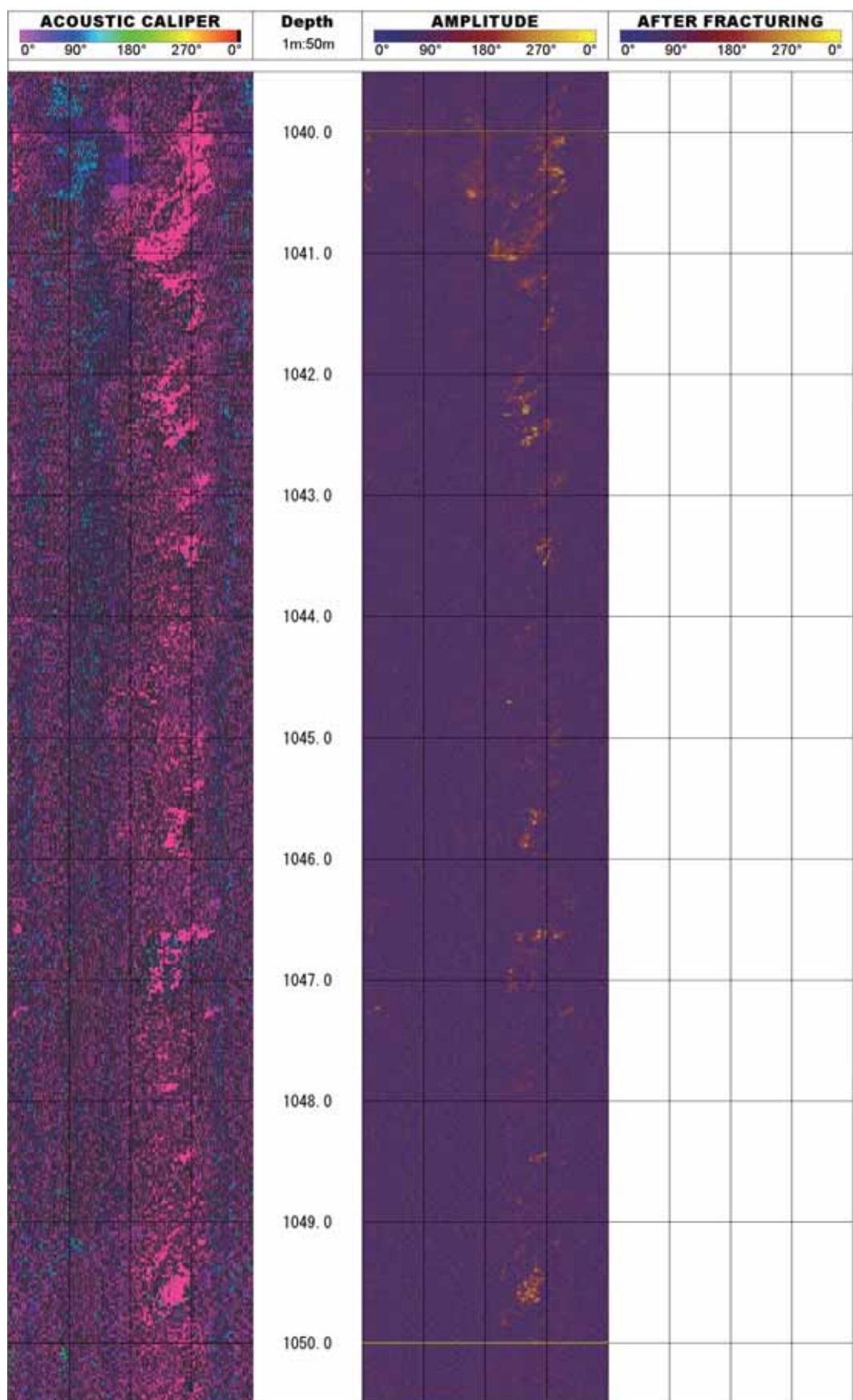
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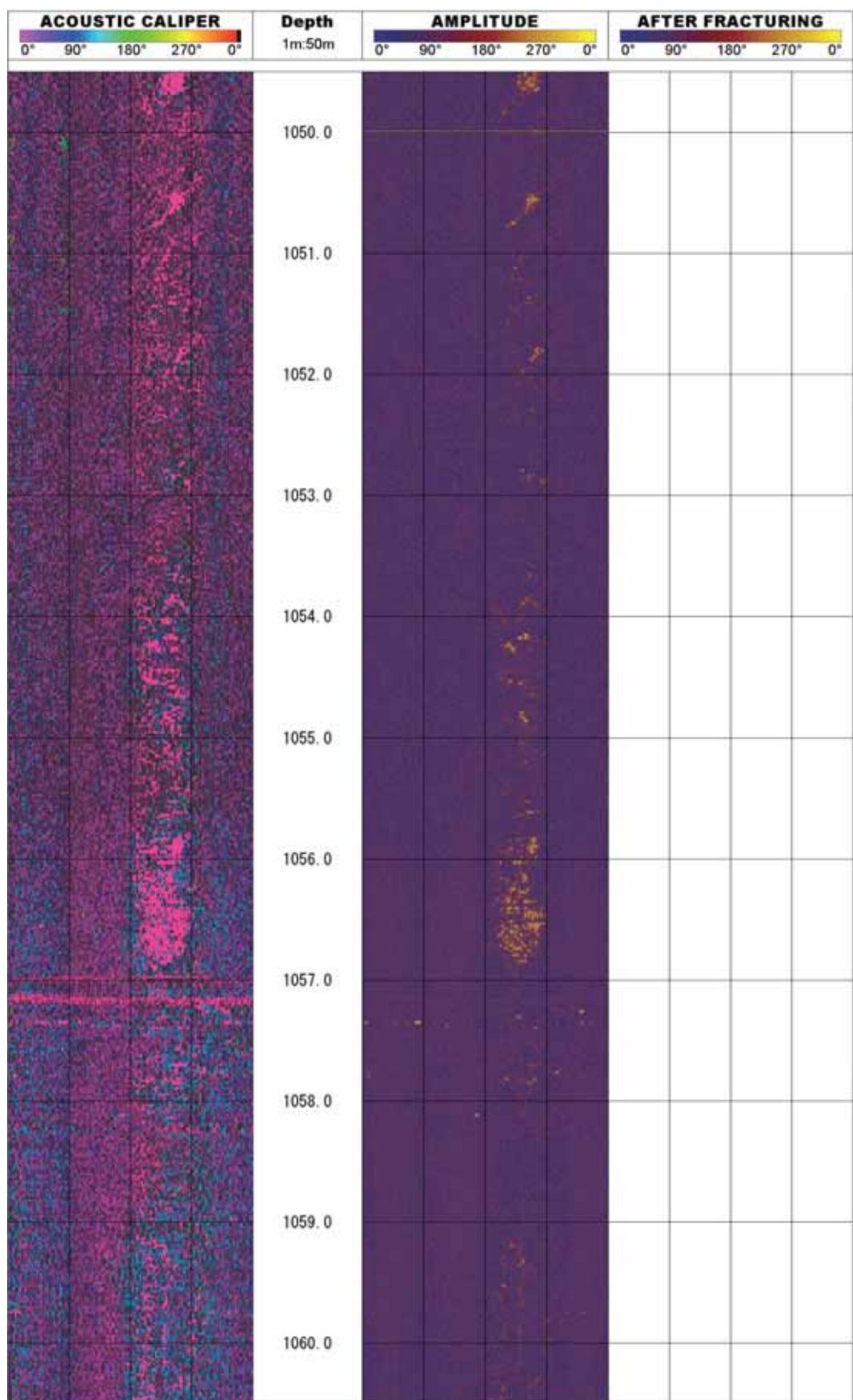
垂直孔 (vertical hole)



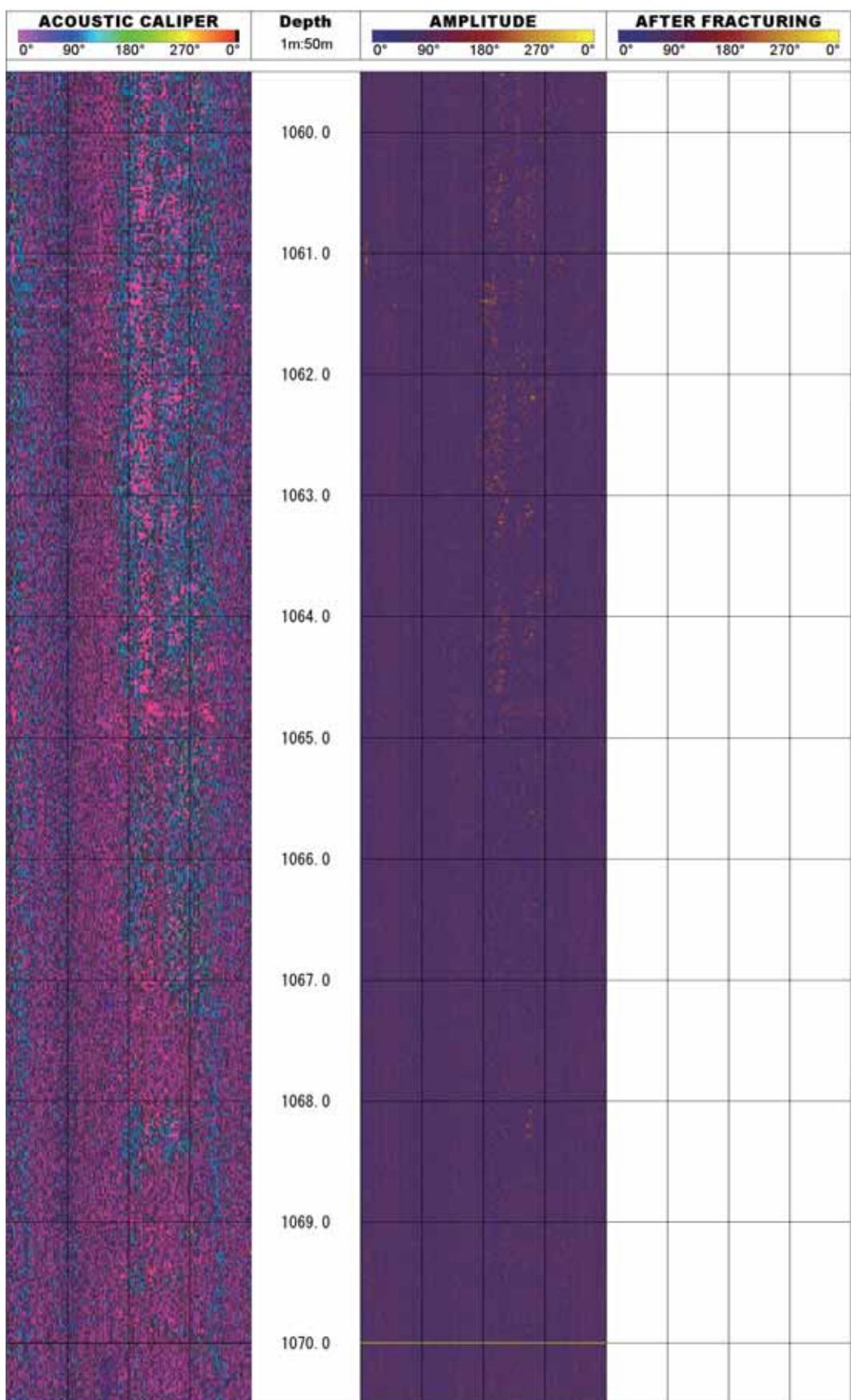
垂直孔 (vertical hole)



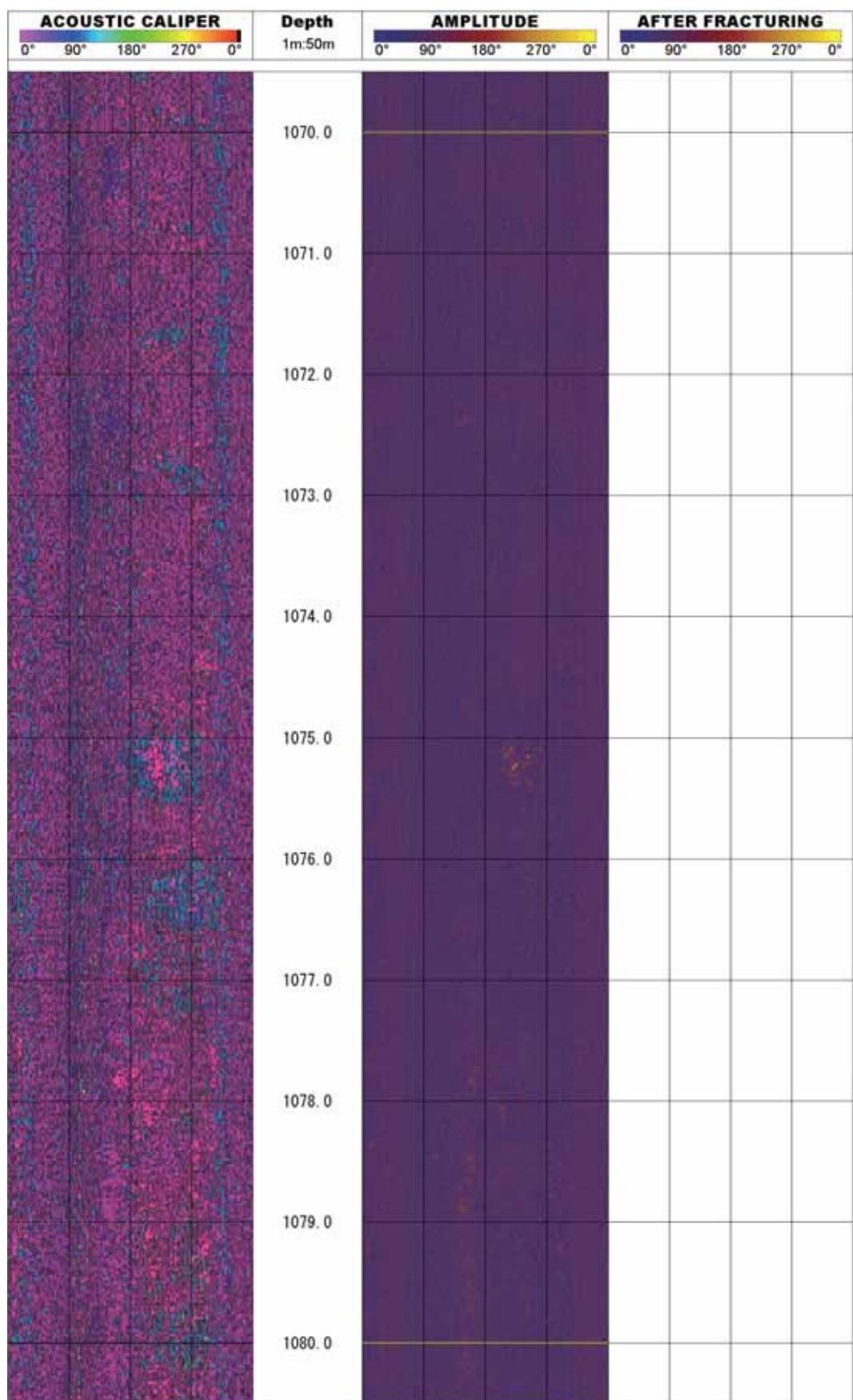
垂直孔 (vertical hole)



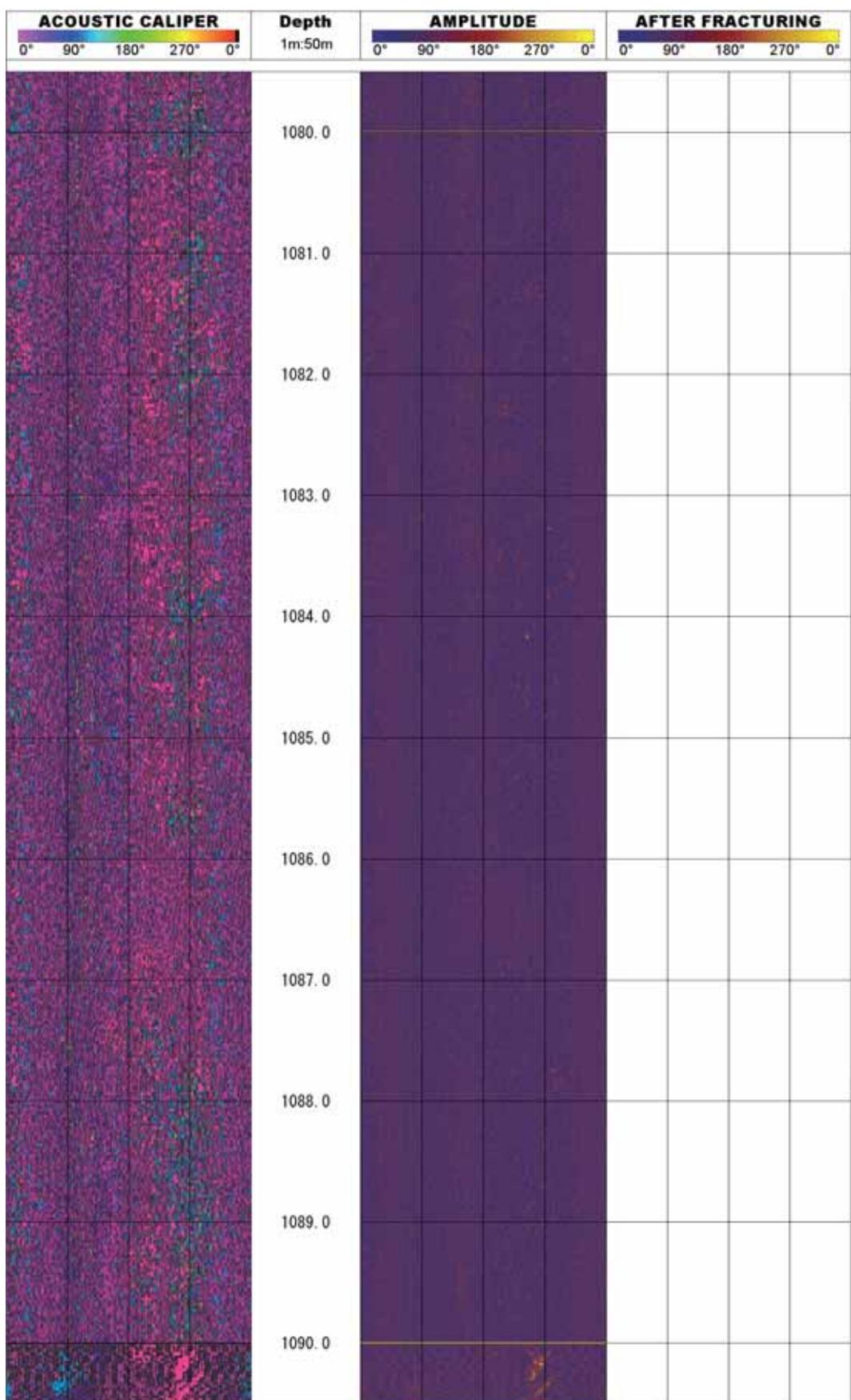
垂直孔 (vertical hole)



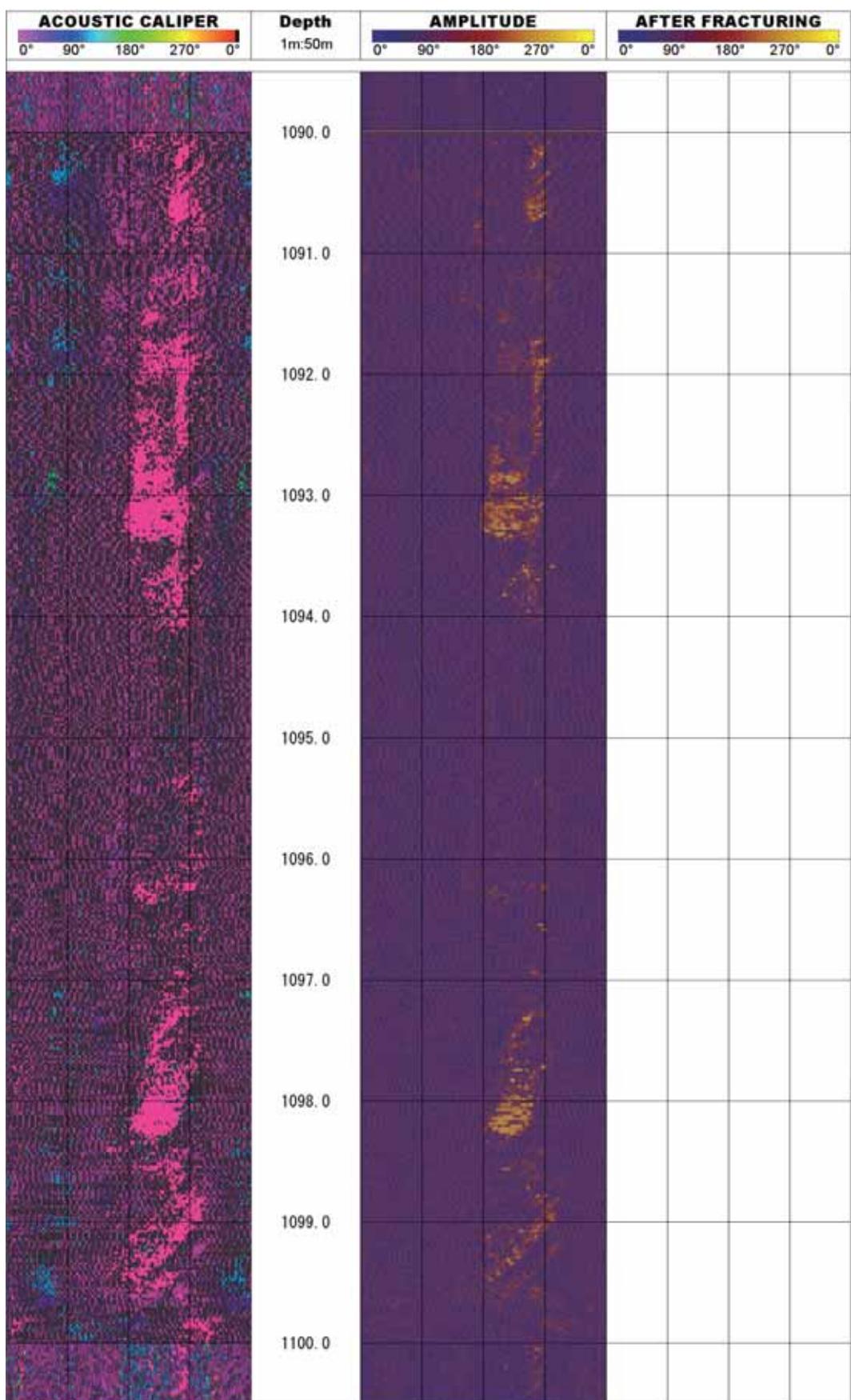
垂直孔 (vertical hole)



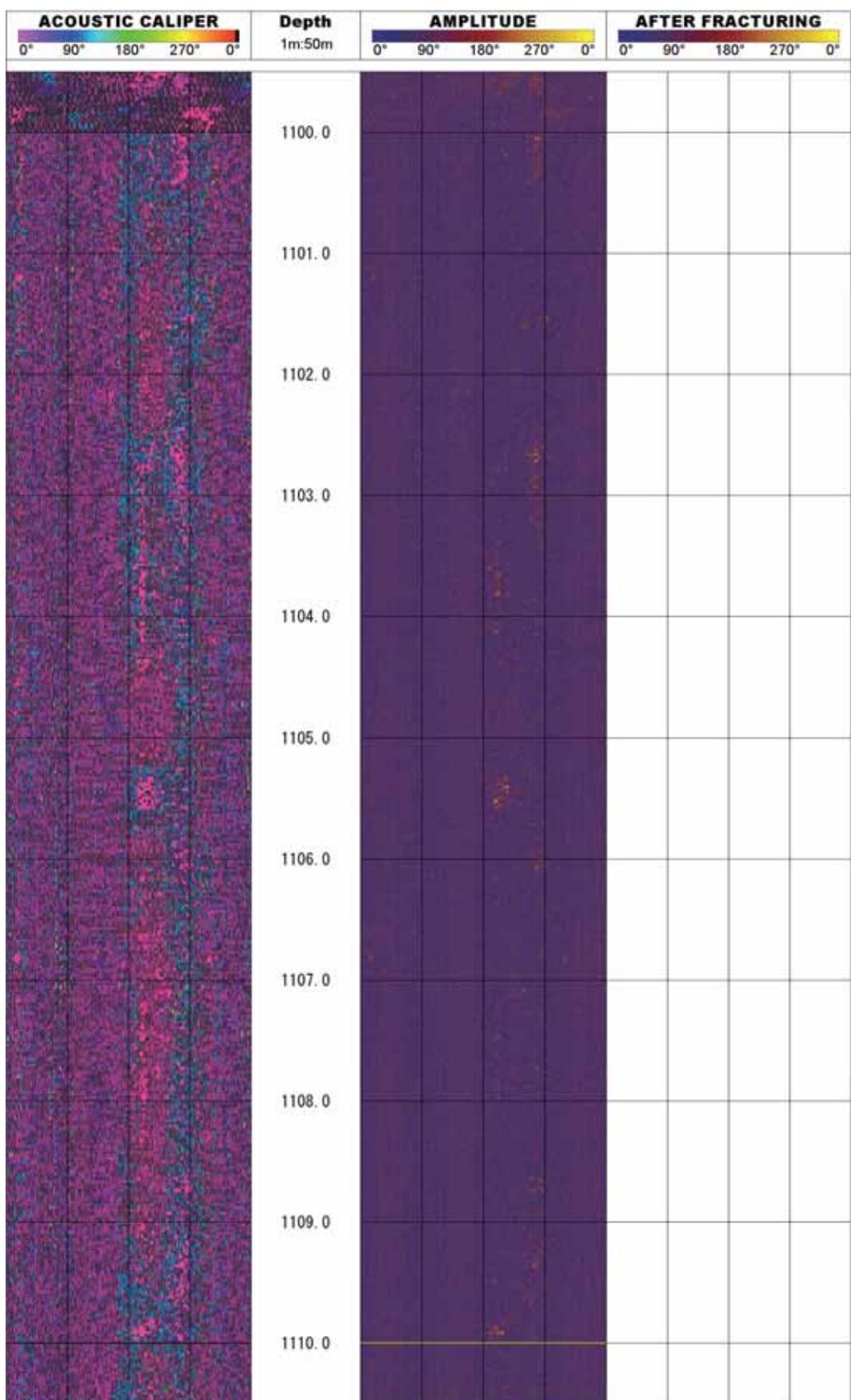
垂直孔 (vertical hole)



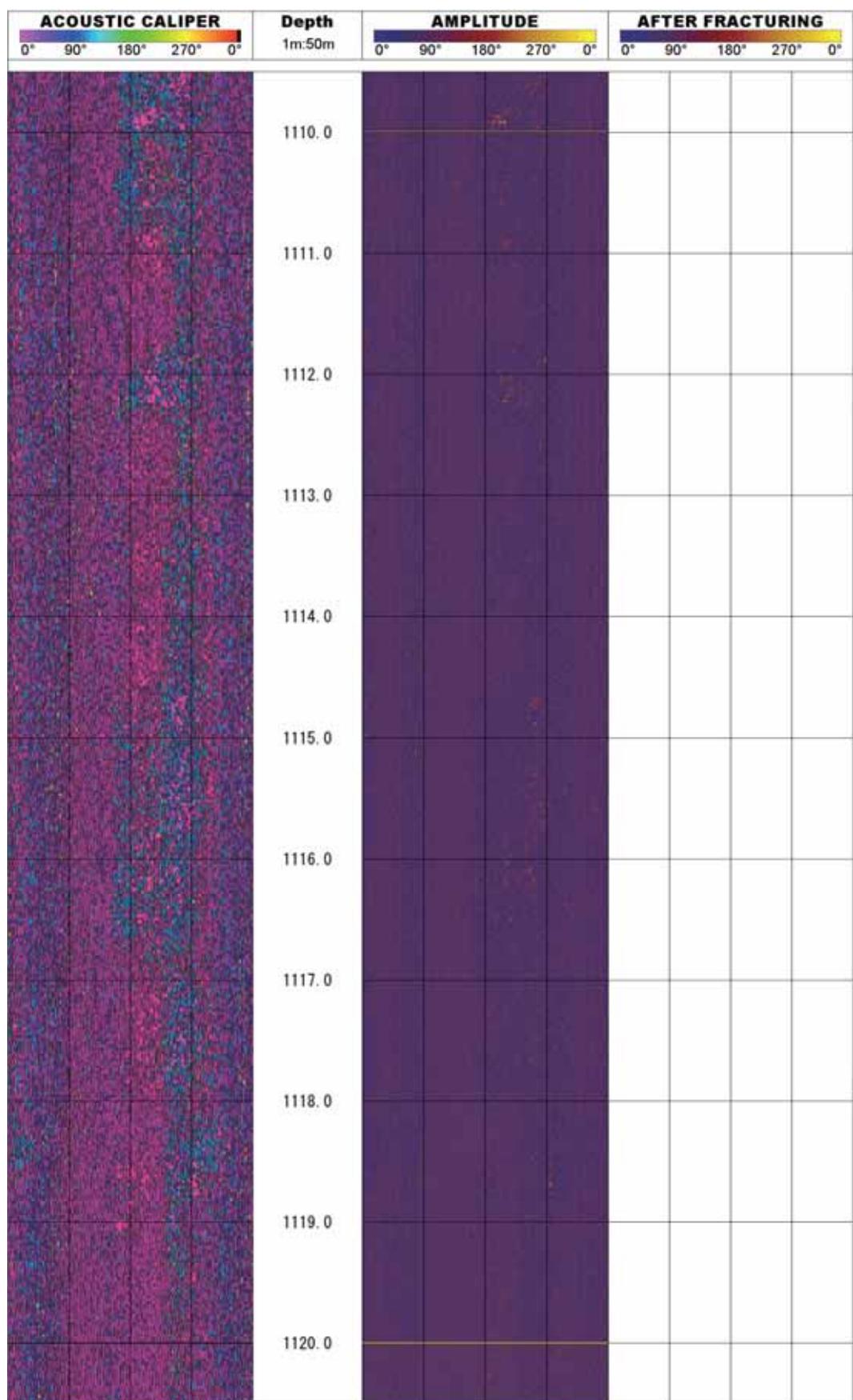
垂直孔 (vertical hole)



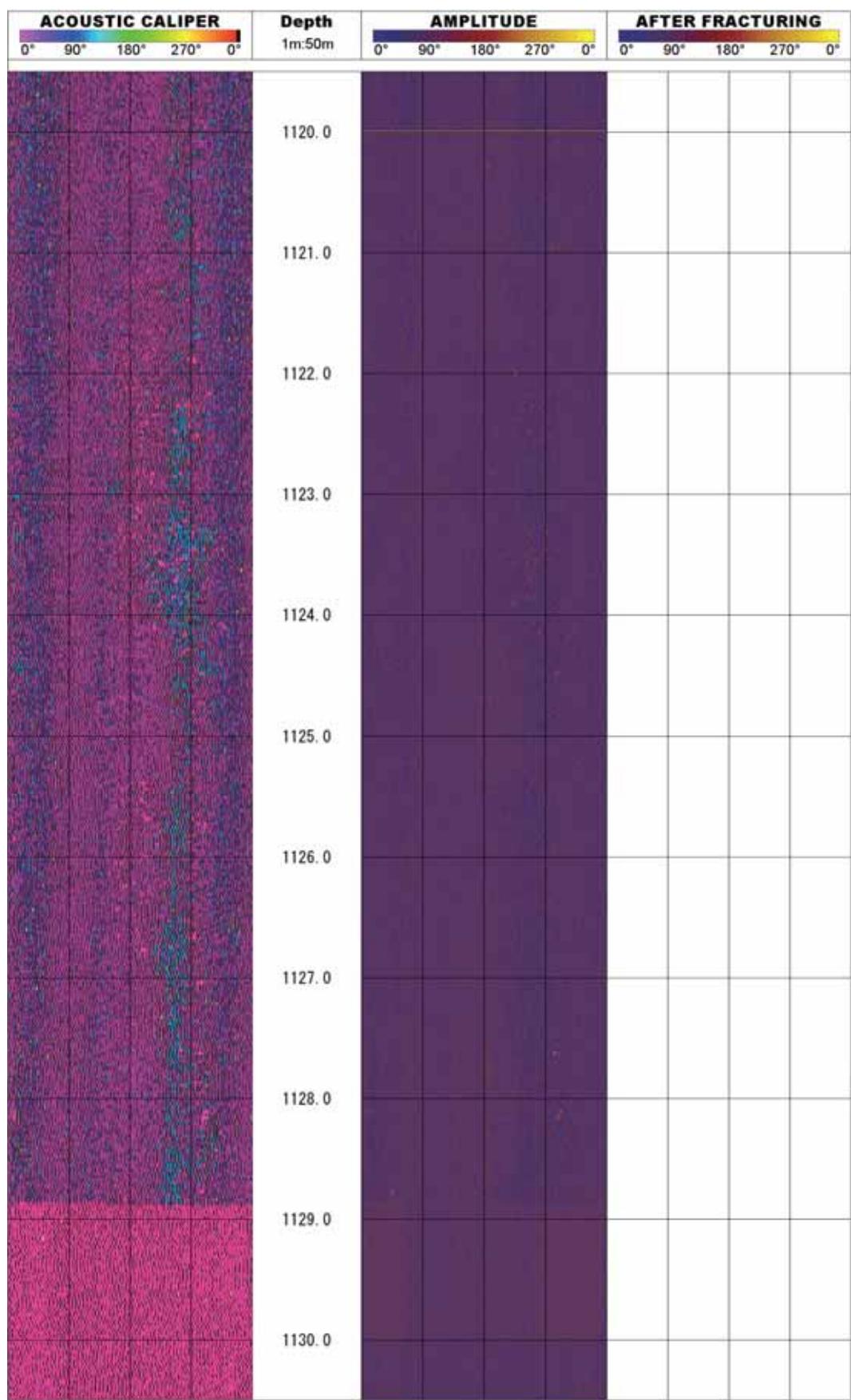
垂直孔 (vertical hole)



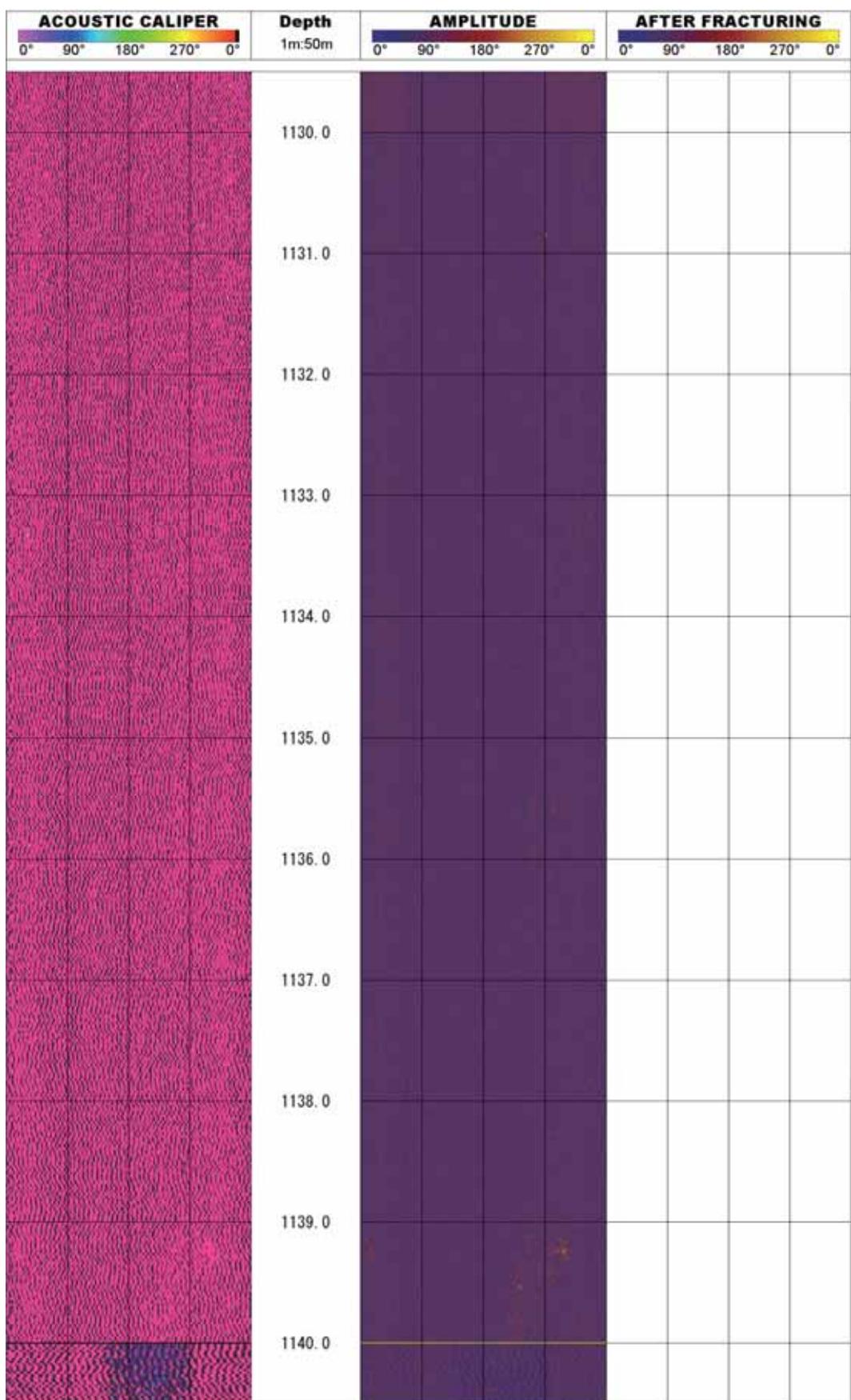
垂直孔 (vertical hole)



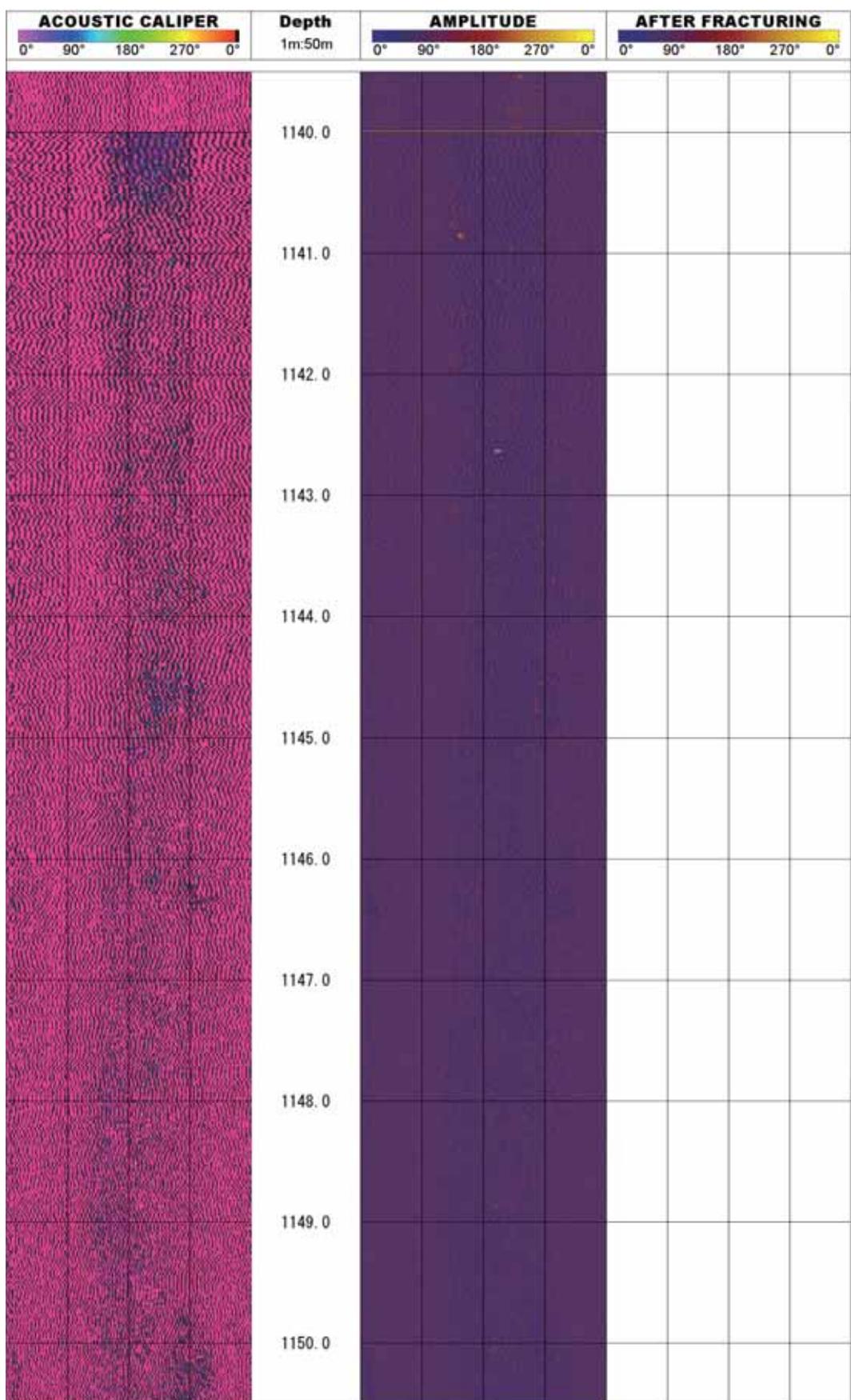
垂直孔 (vertical hole)



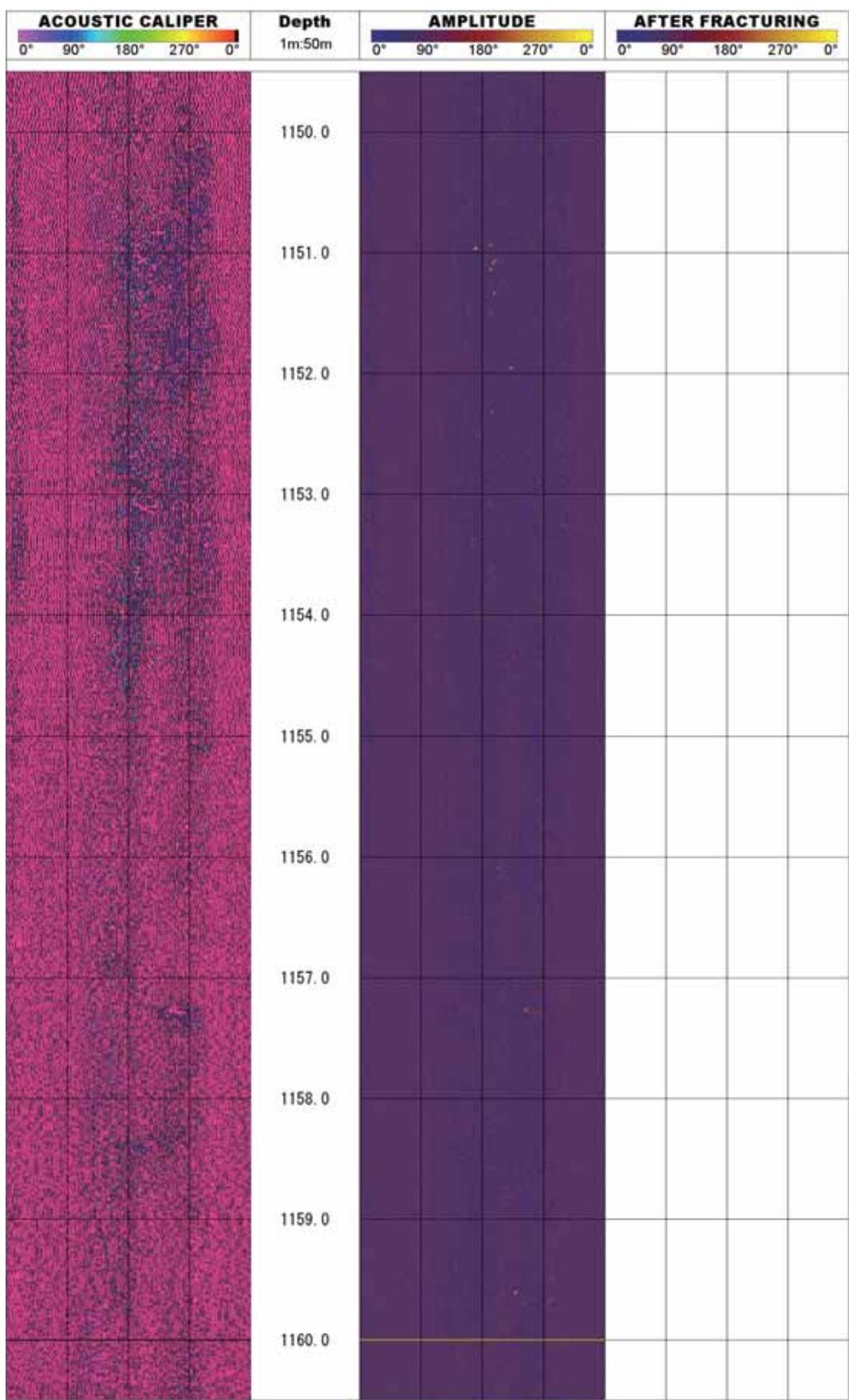
垂直孔 (vertical hole)



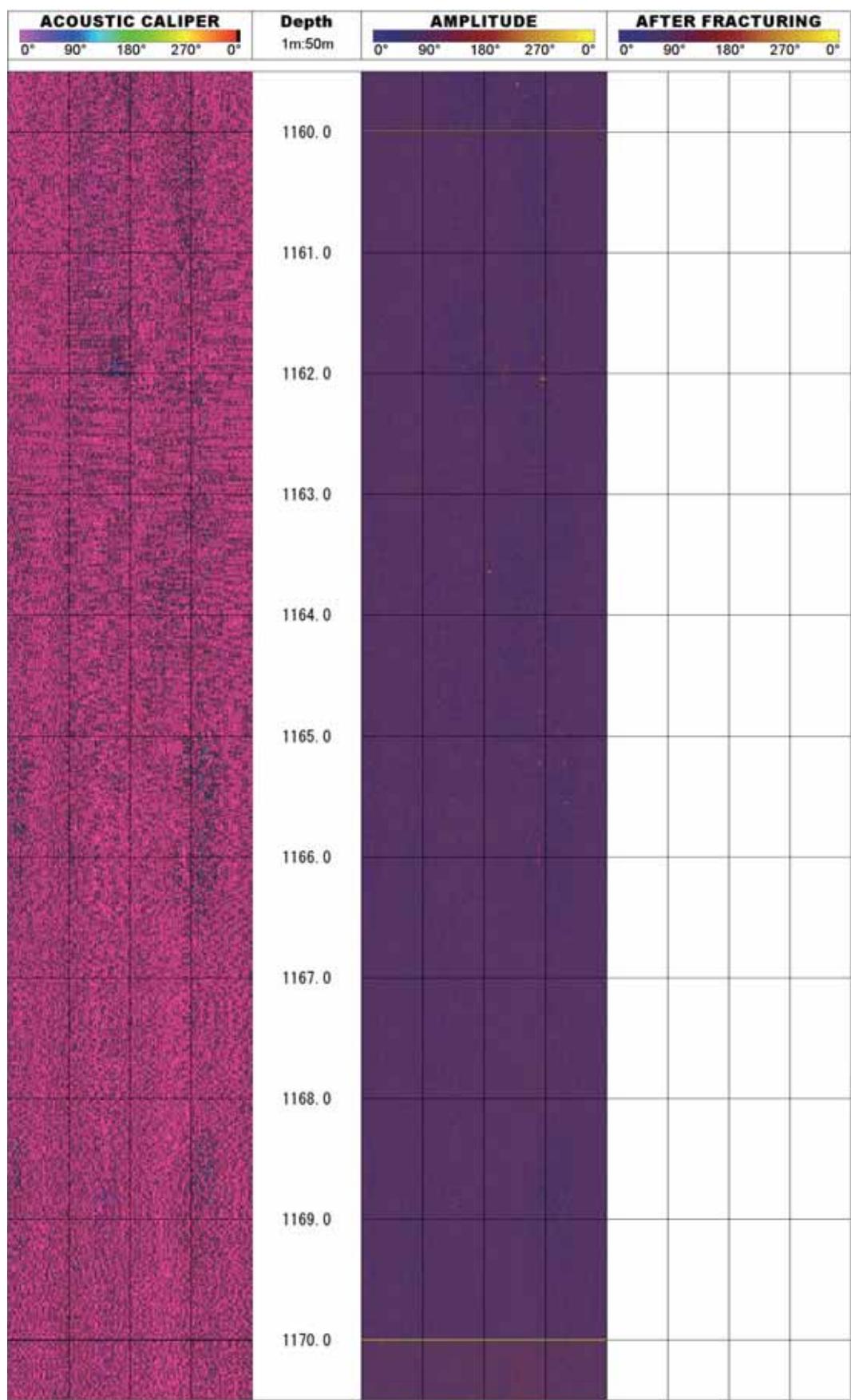
垂直孔 (vertical hole)



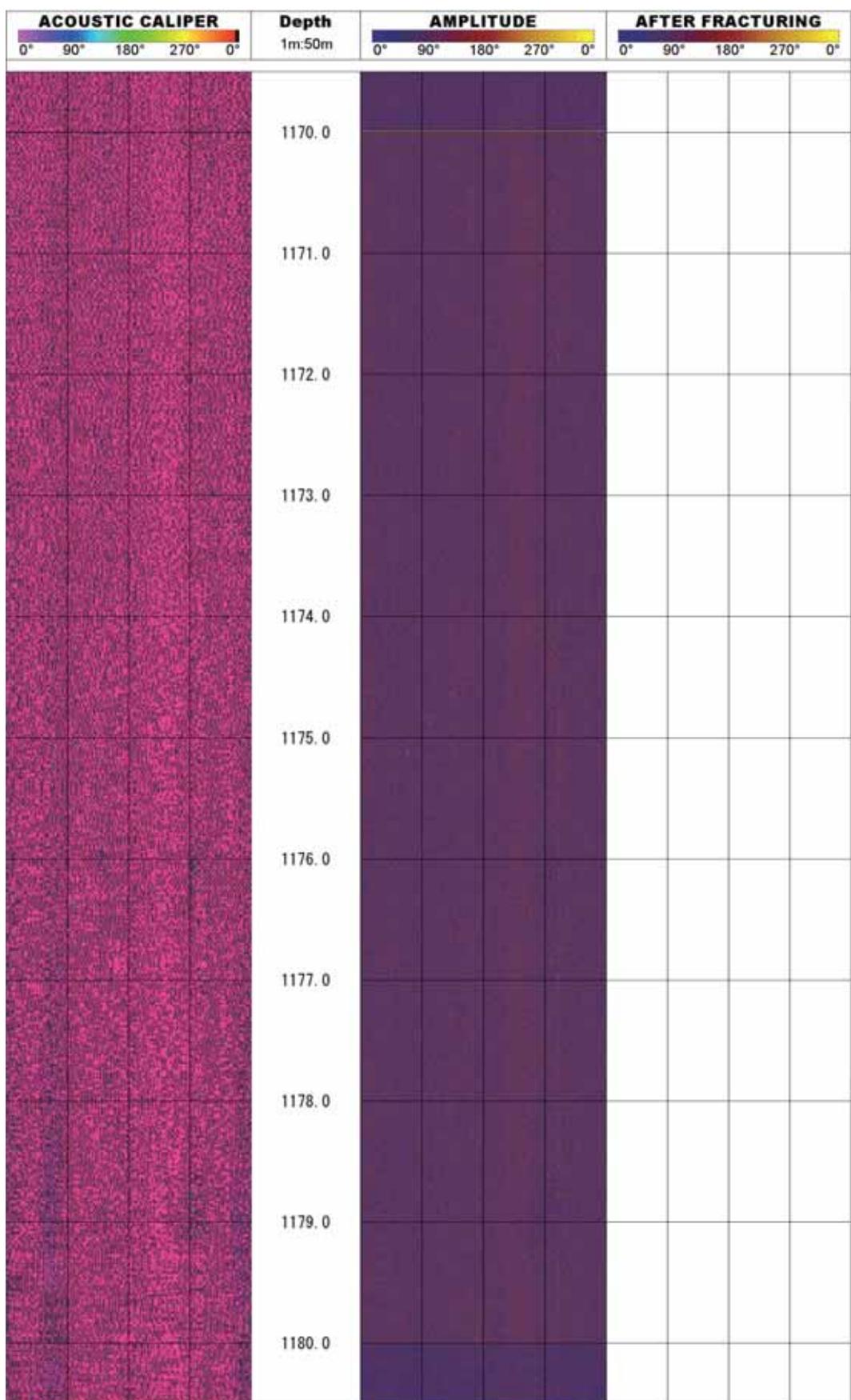
垂直孔 (vertical hole)



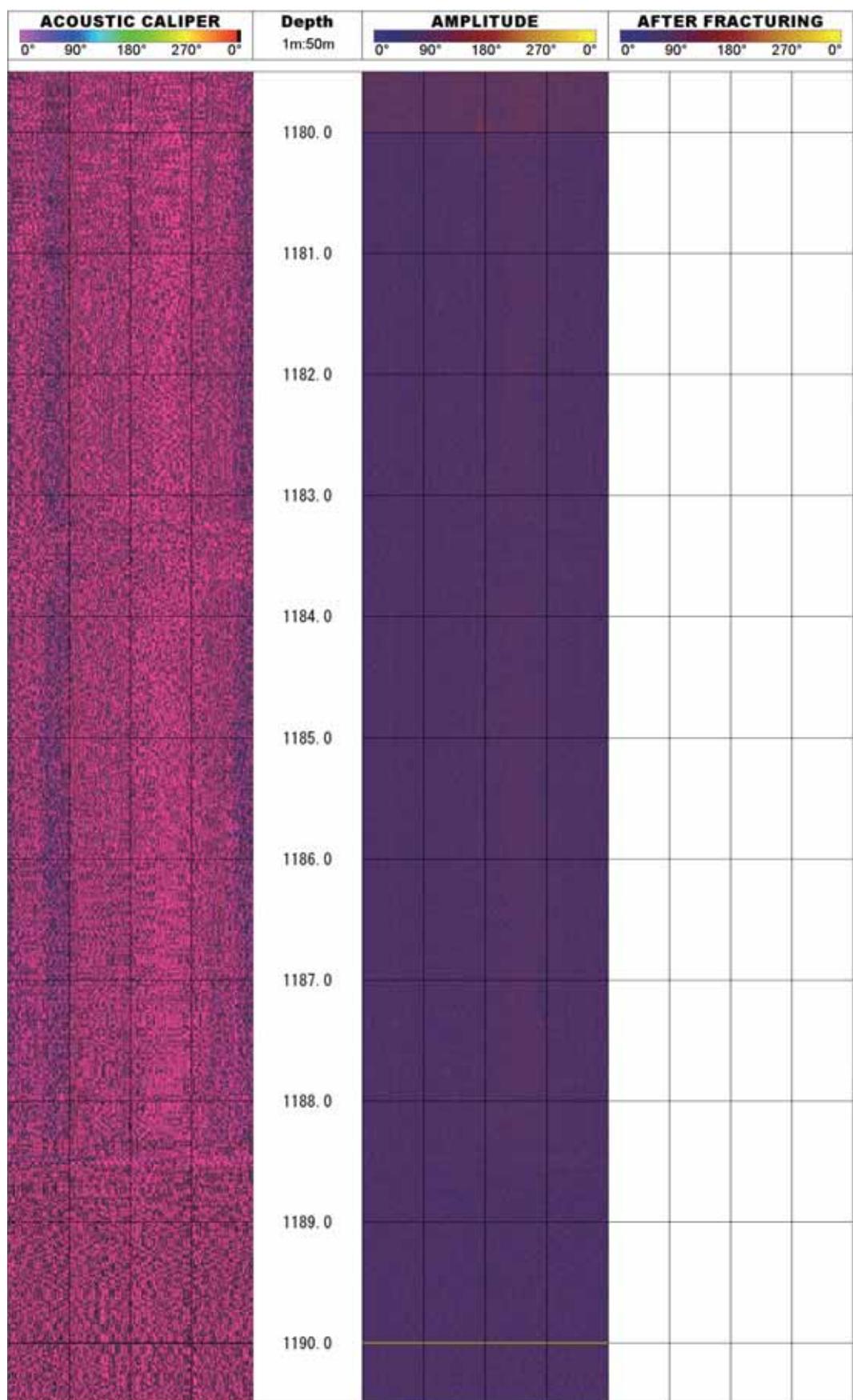
垂直孔 (vertical hole)



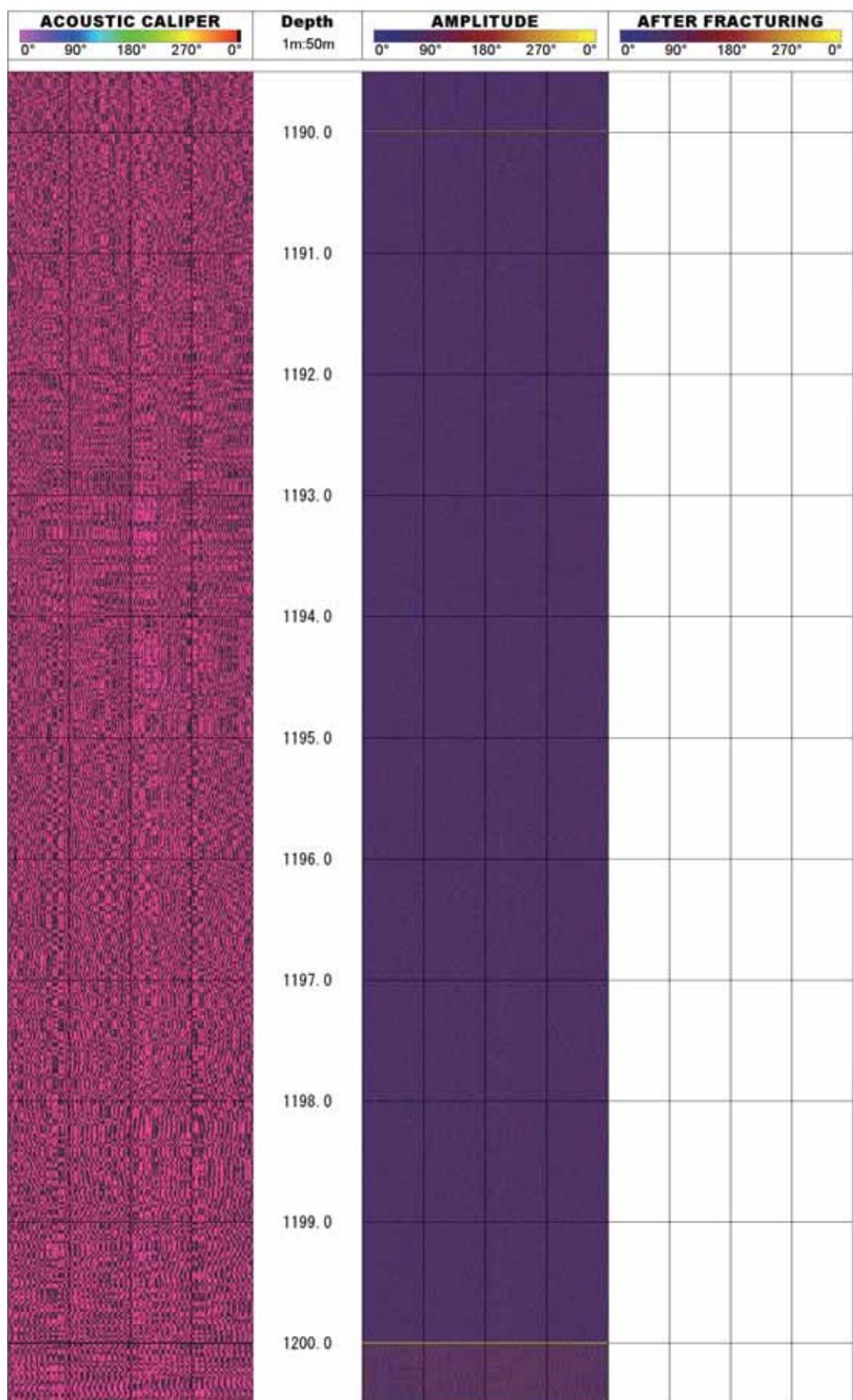
垂直孔 (vertical hole)



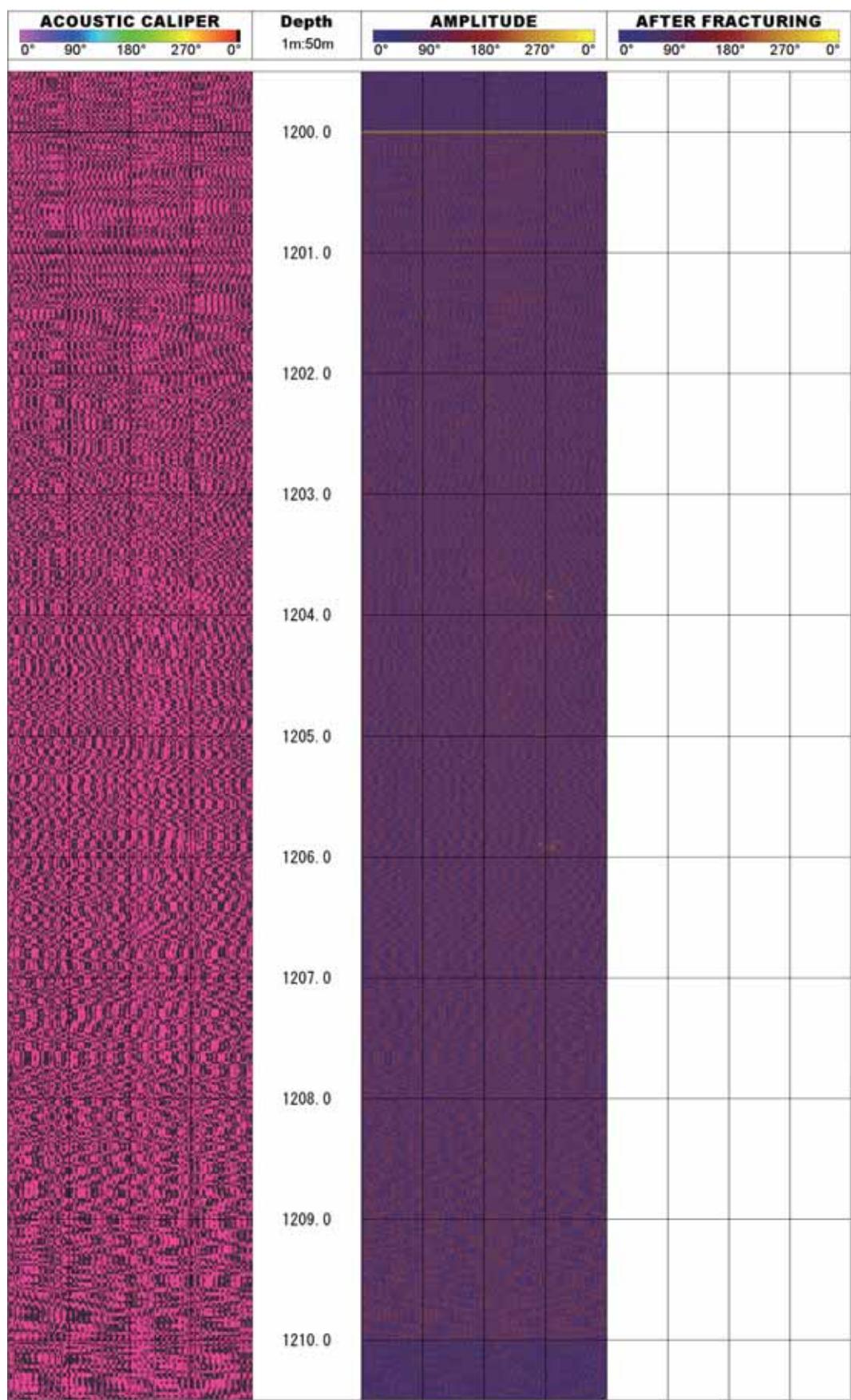
垂直孔 (vertical hole)



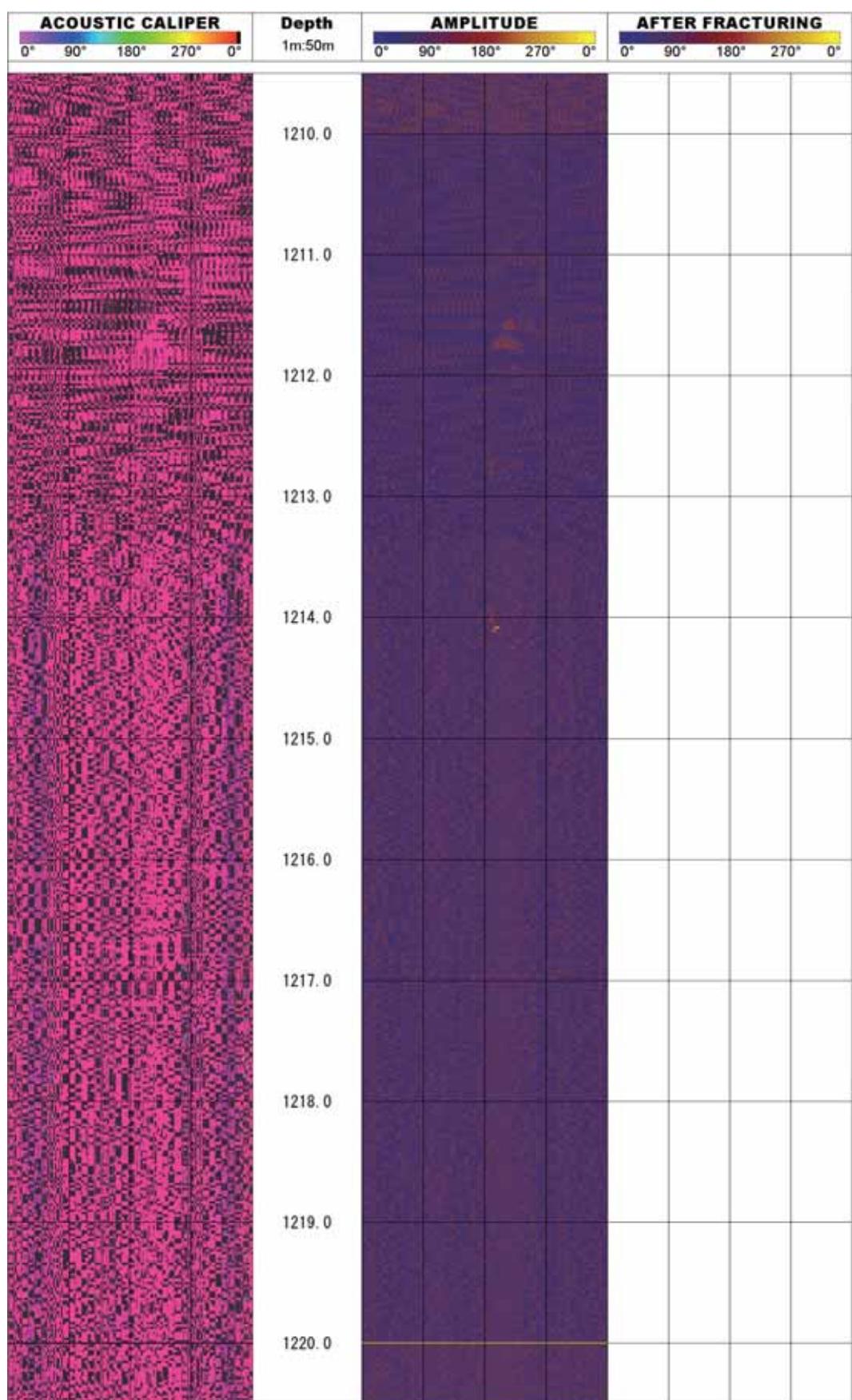
垂直孔 (vertical hole)



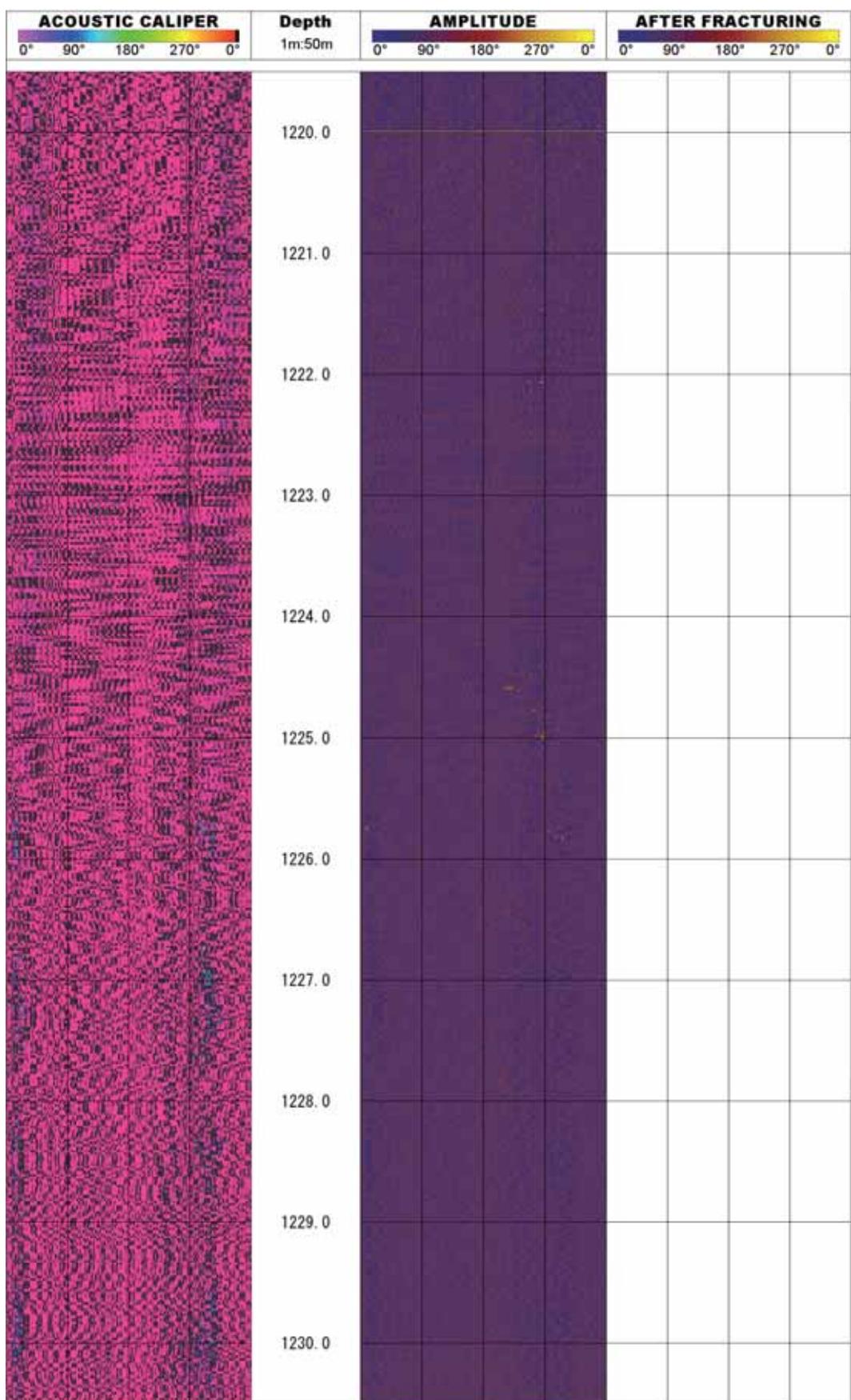
垂直孔 (vertical hole)



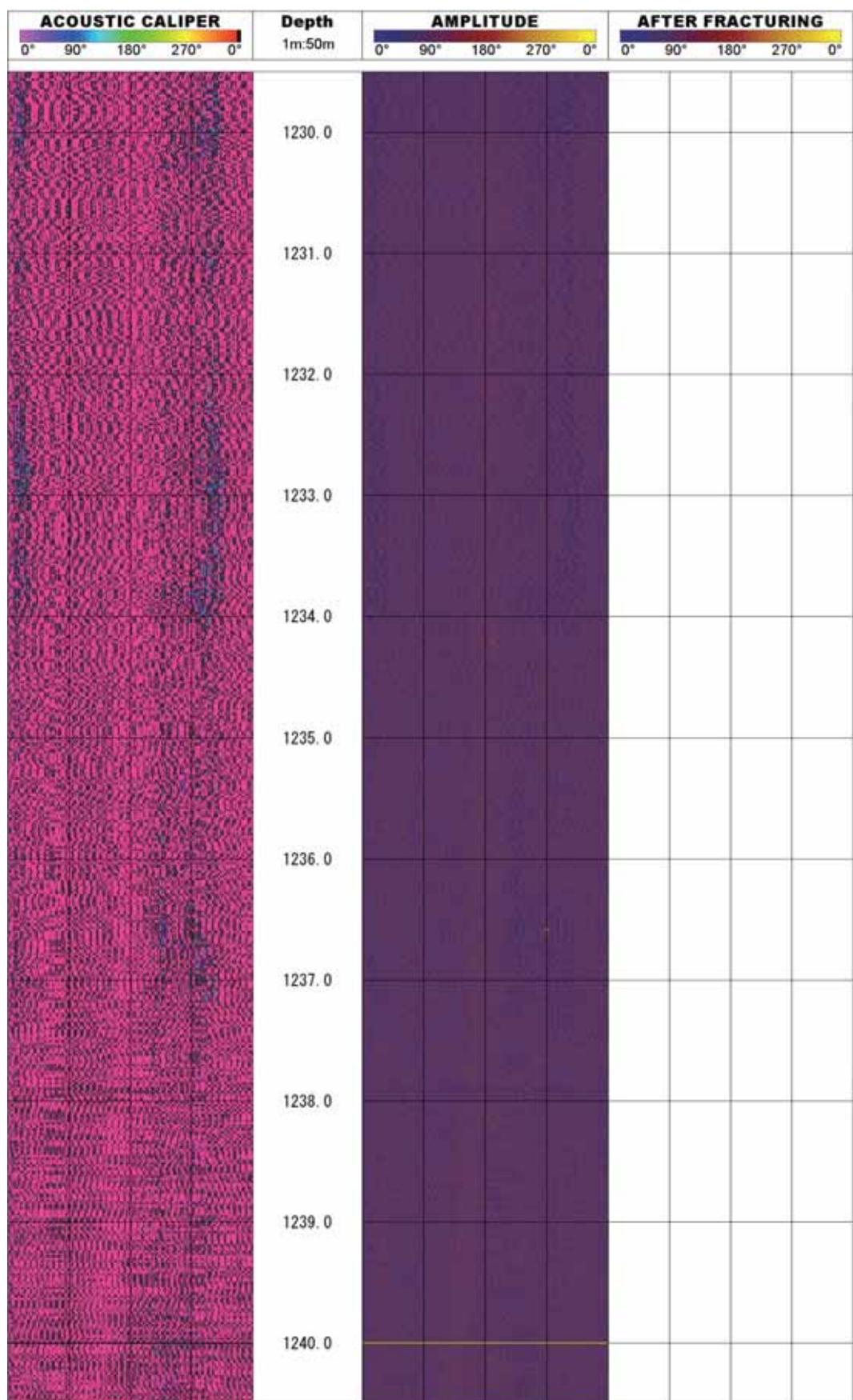
垂直孔 (vertical hole)



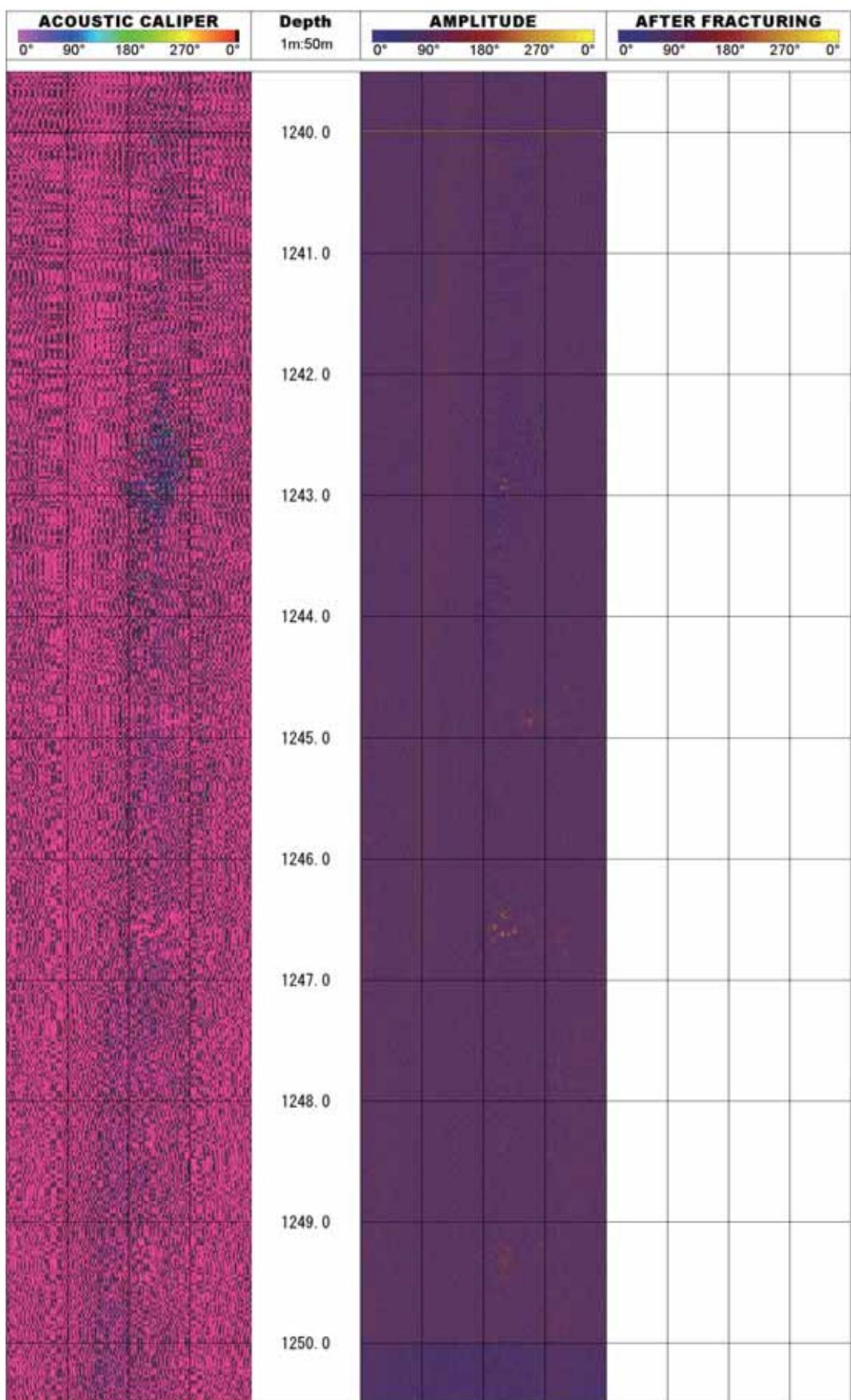
垂直孔 (vertical hole)



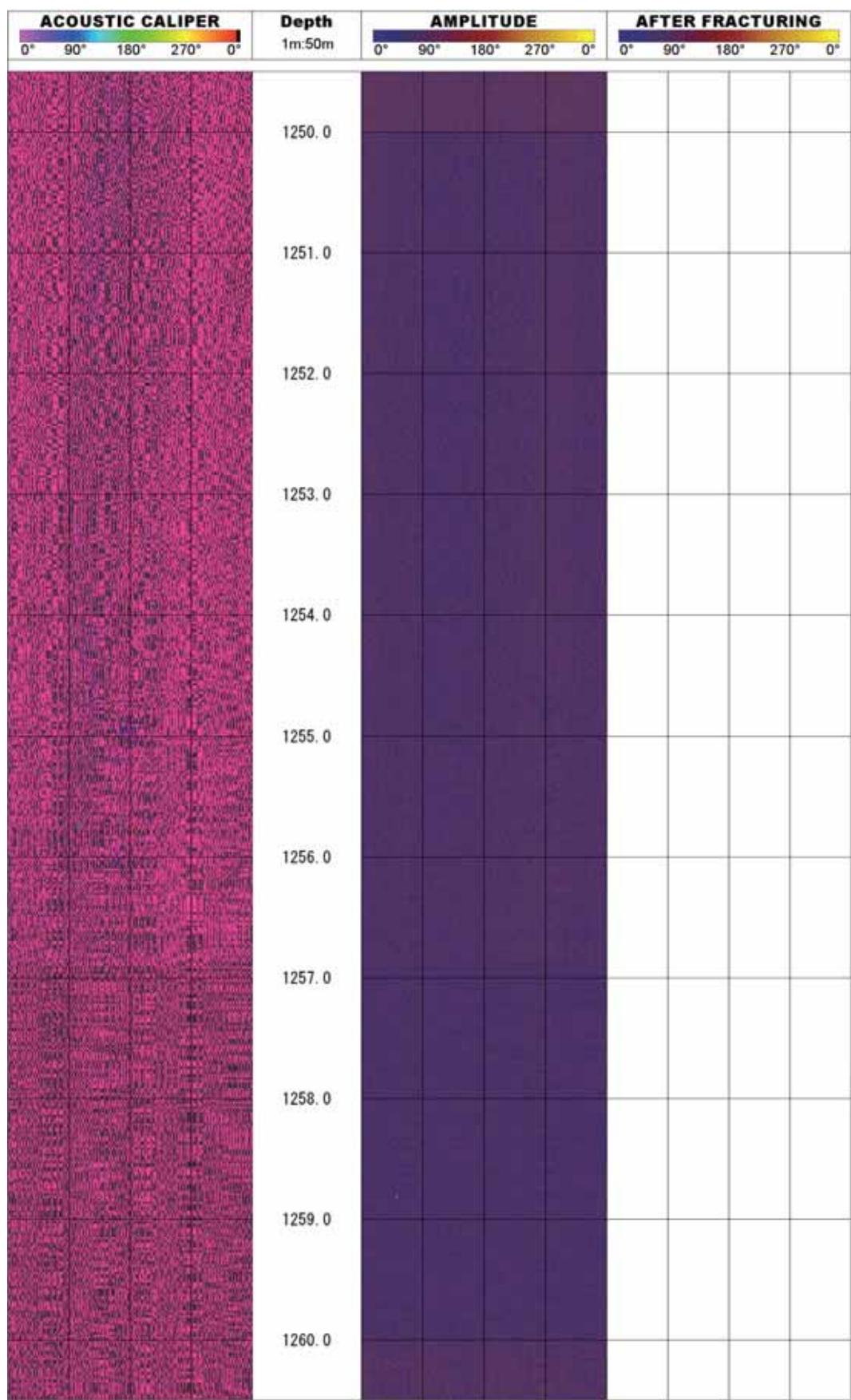
垂直孔 (vertical hole)



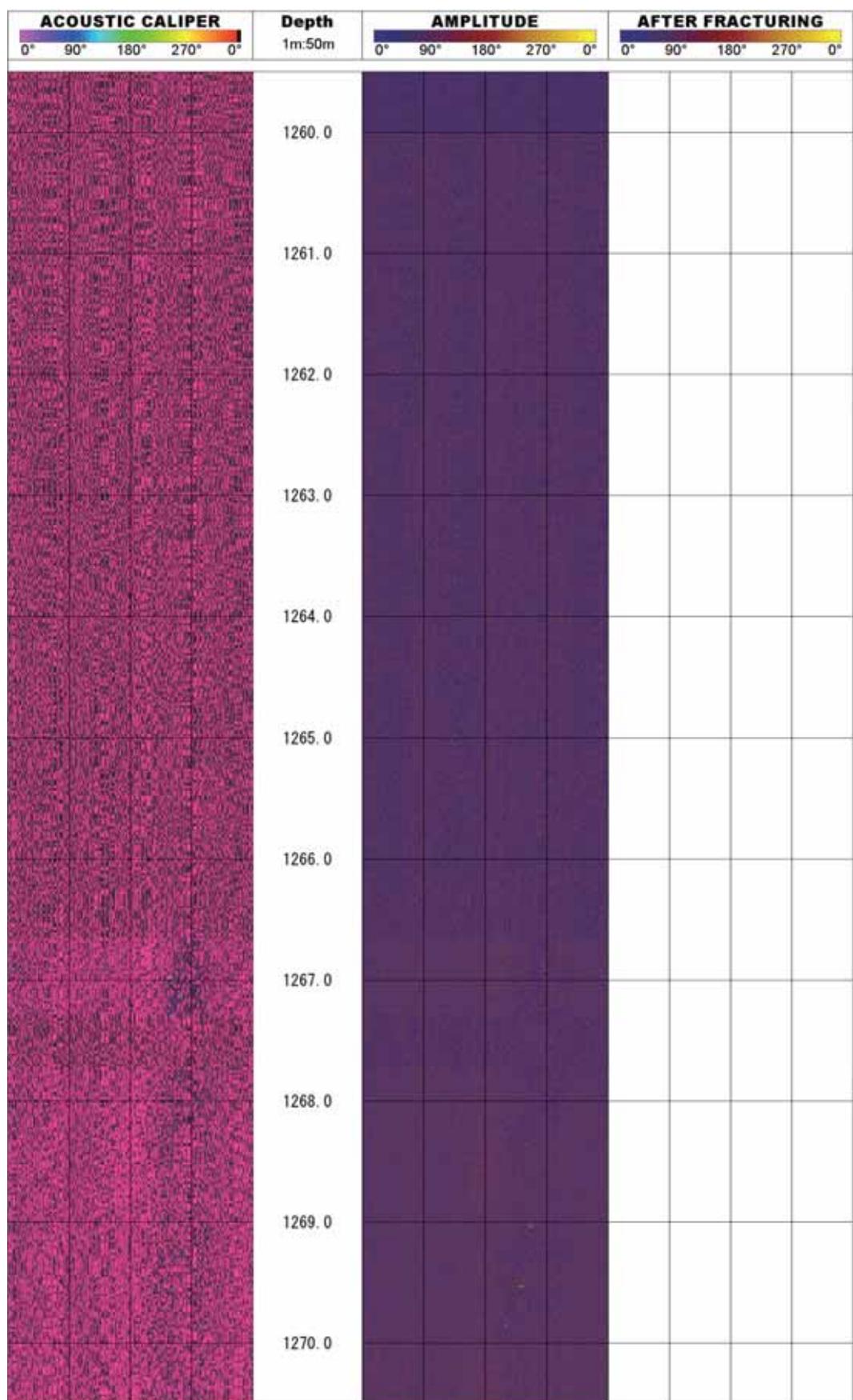
垂直孔 (vertical hole)



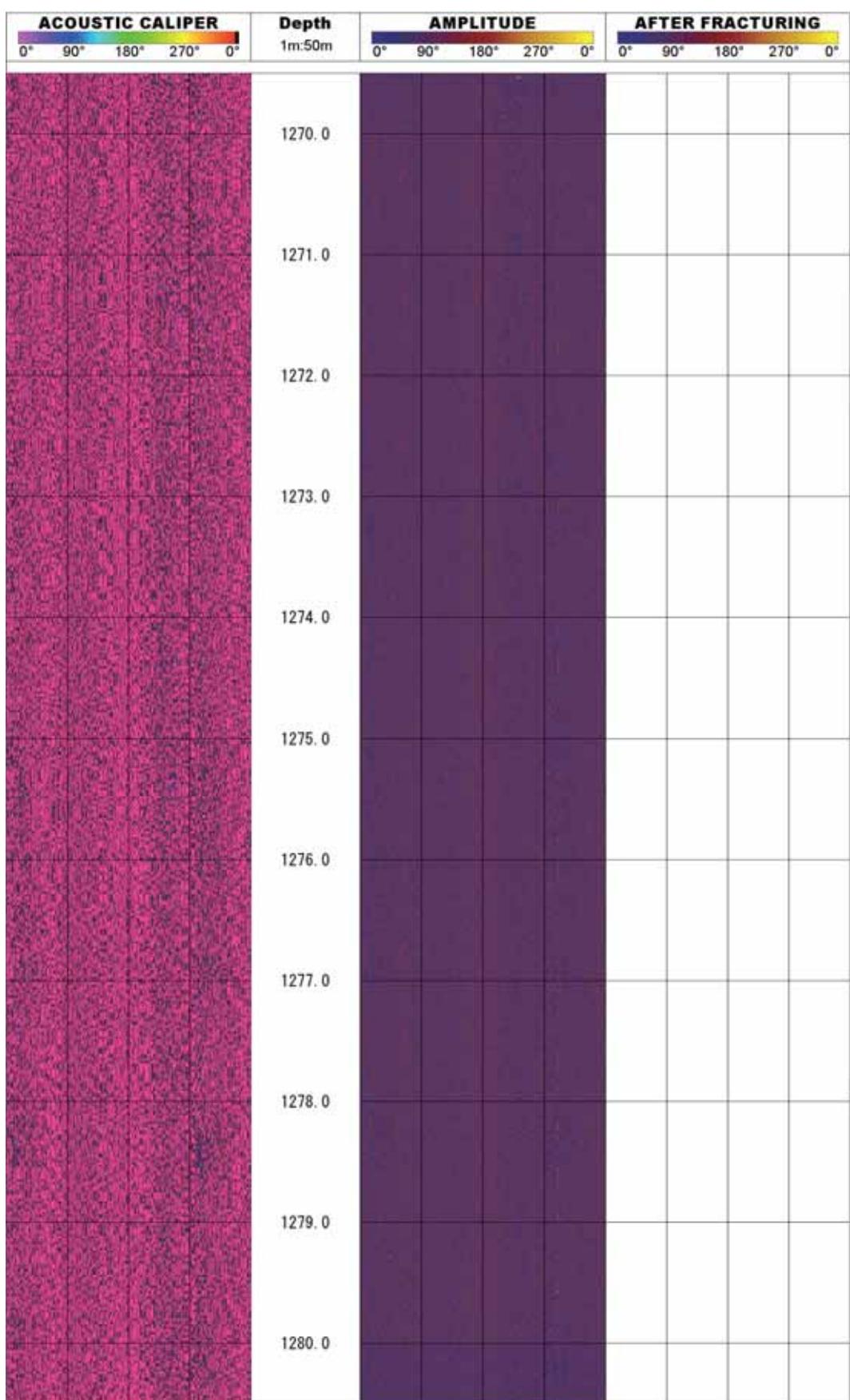
垂直孔 (vertical hole)



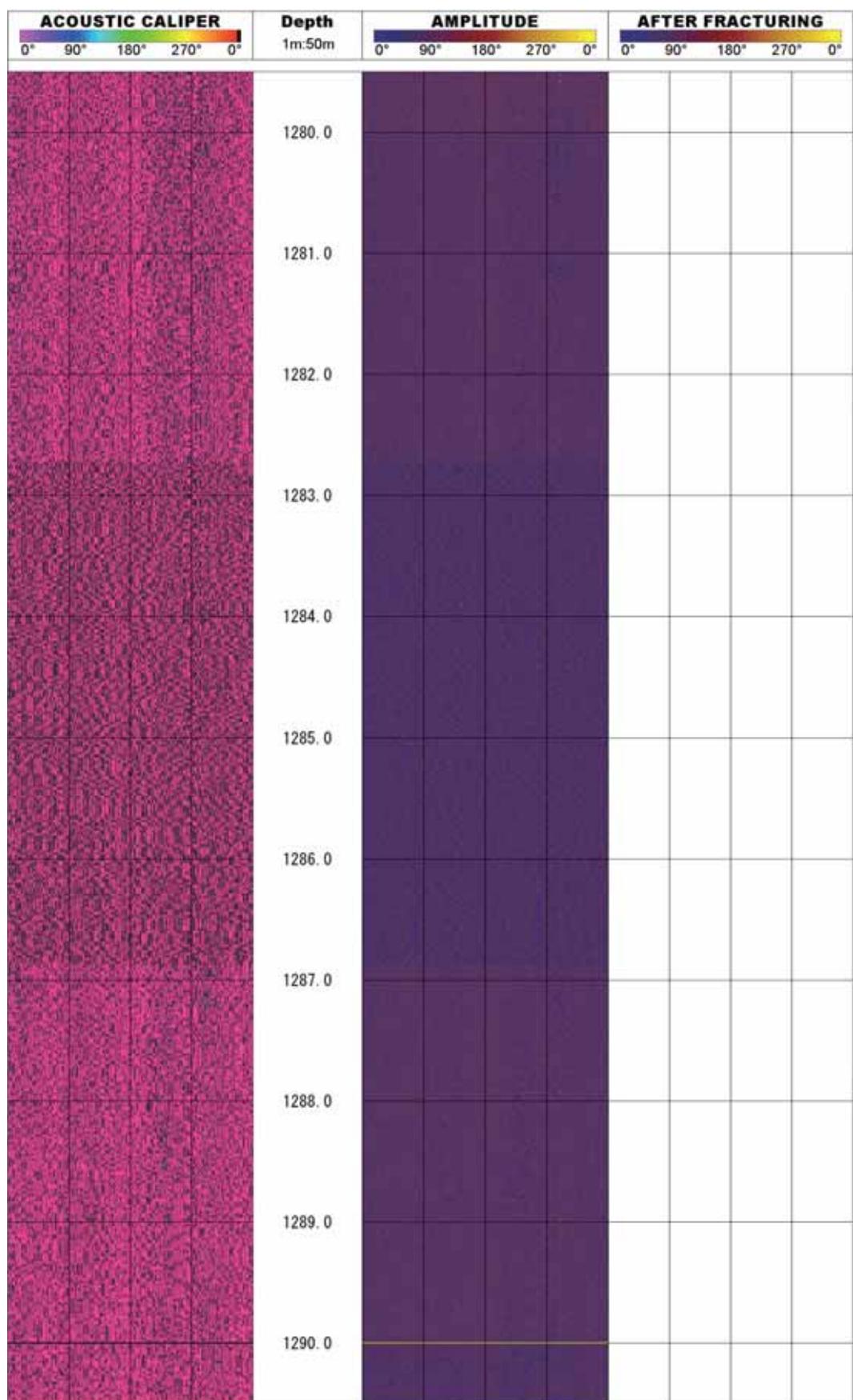
垂直孔 (vertical hole)



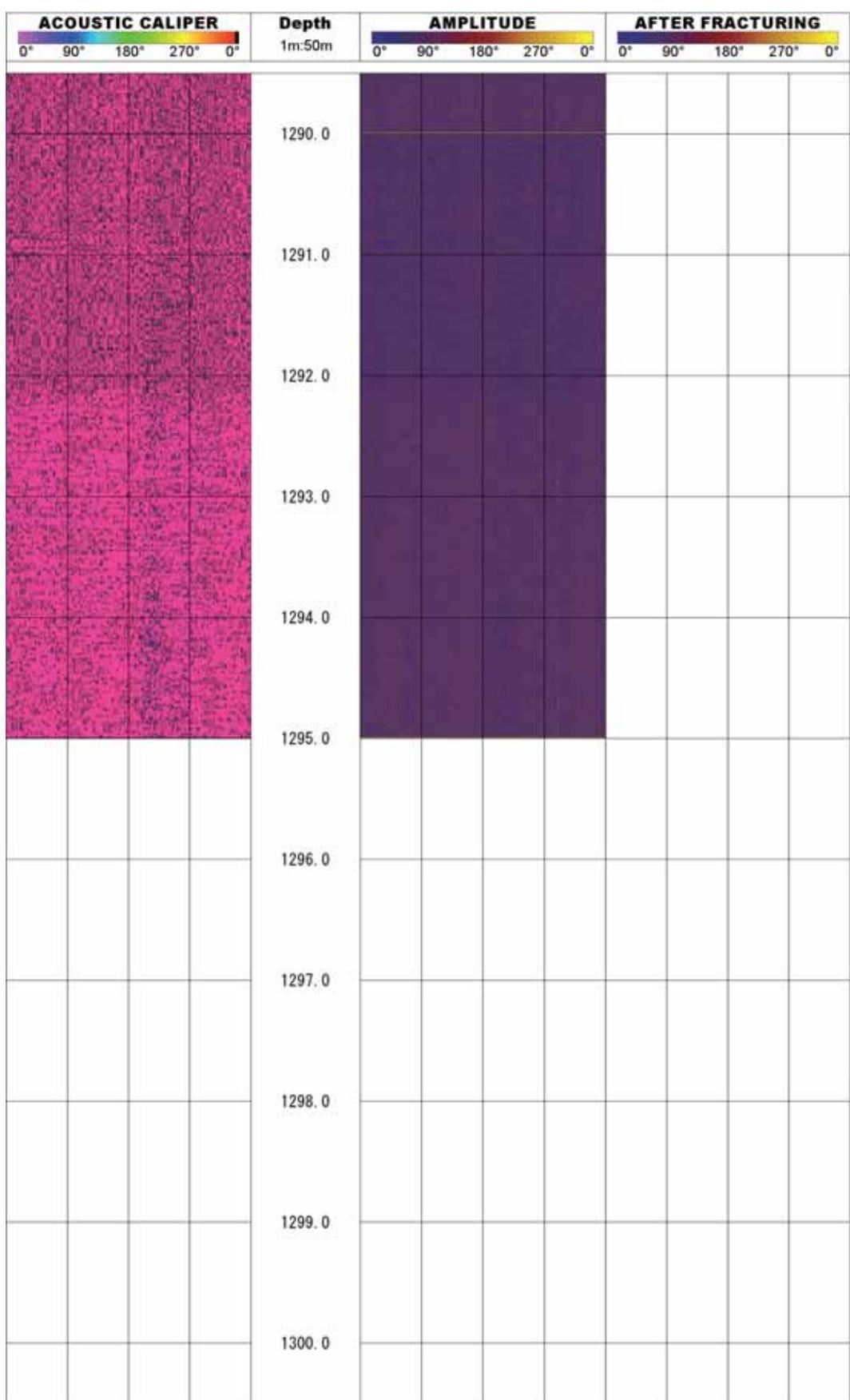
垂直孔 (vertical hole)



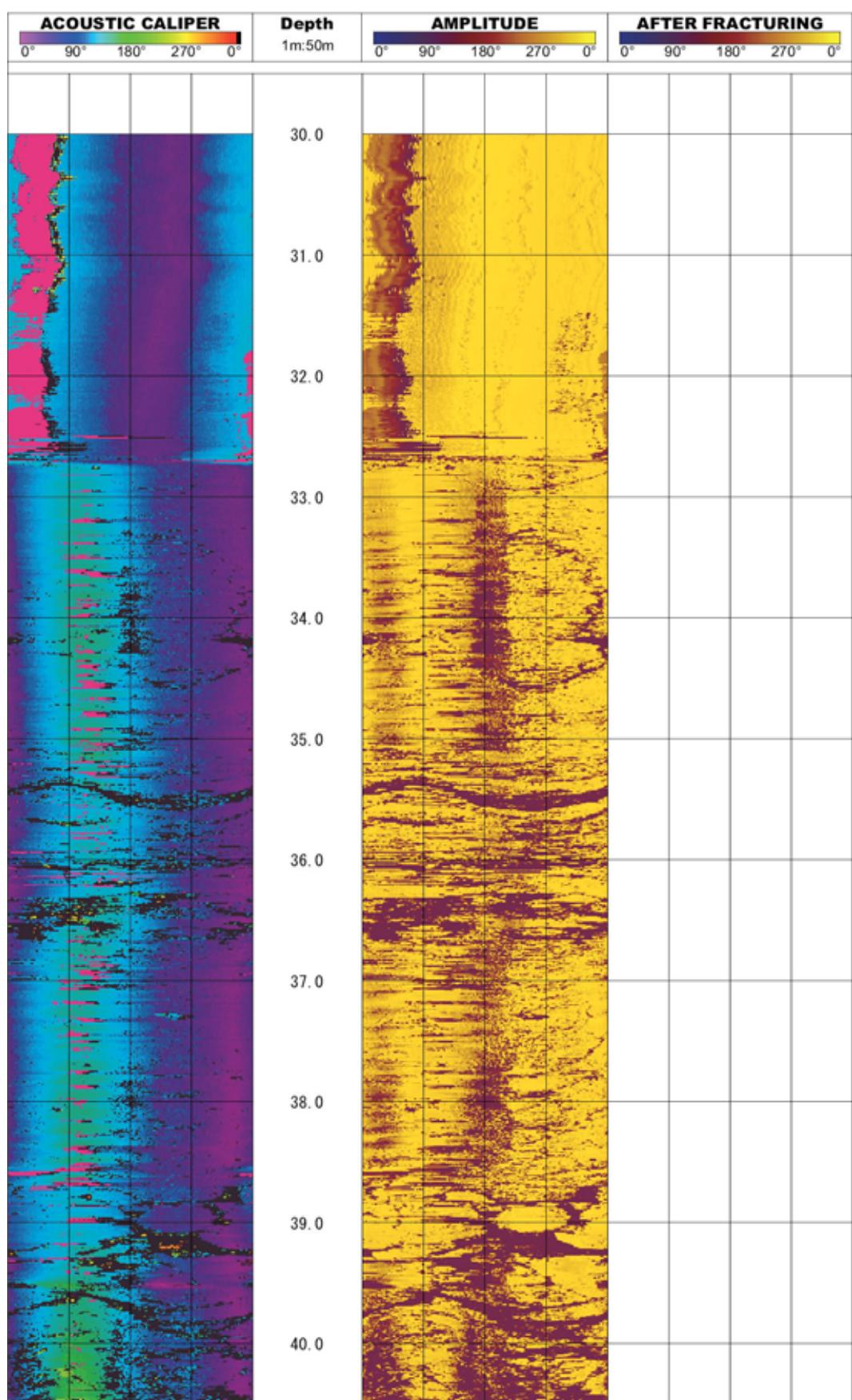
垂直孔 (vertical hole)



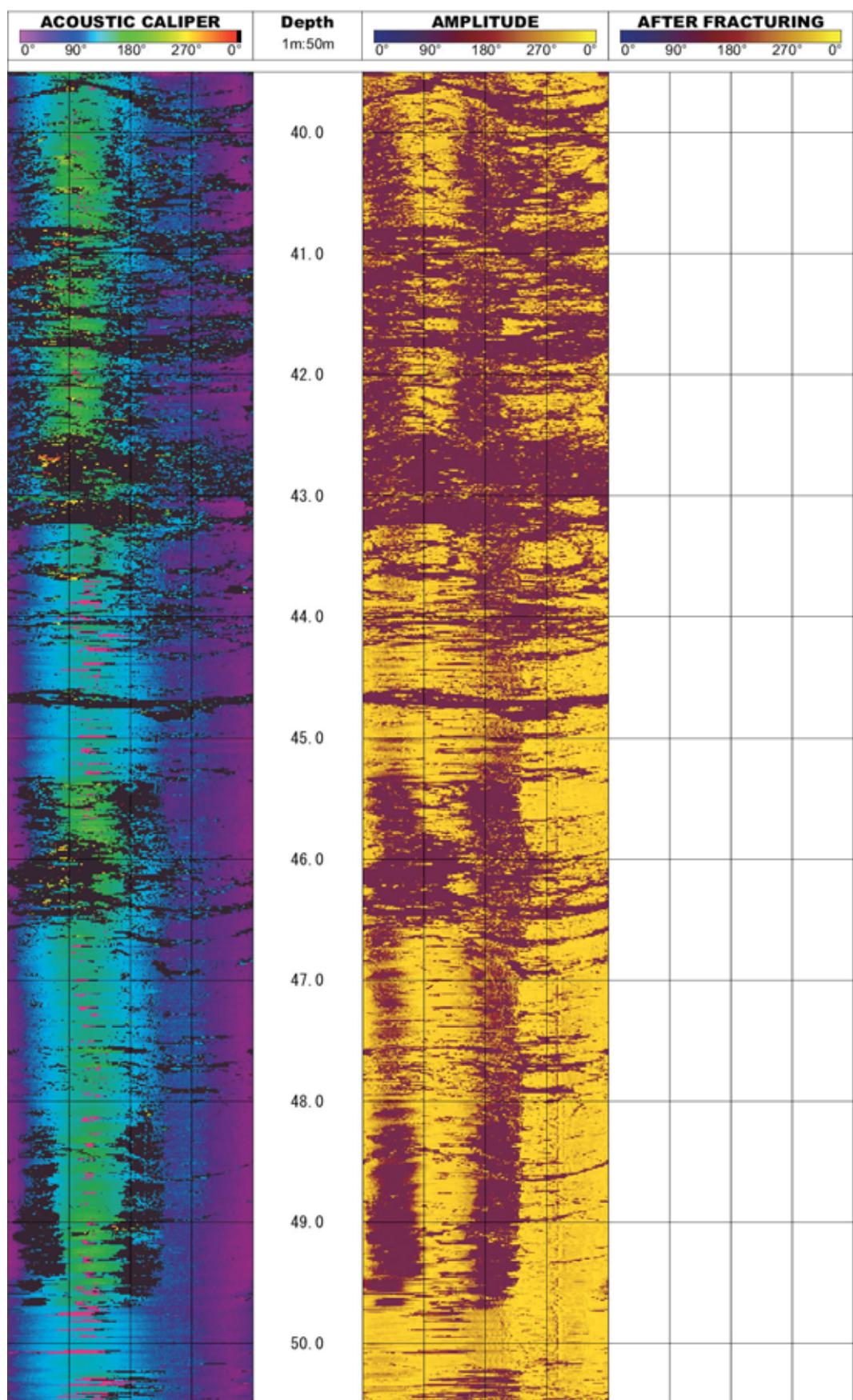
垂直孔 (vertical hole)



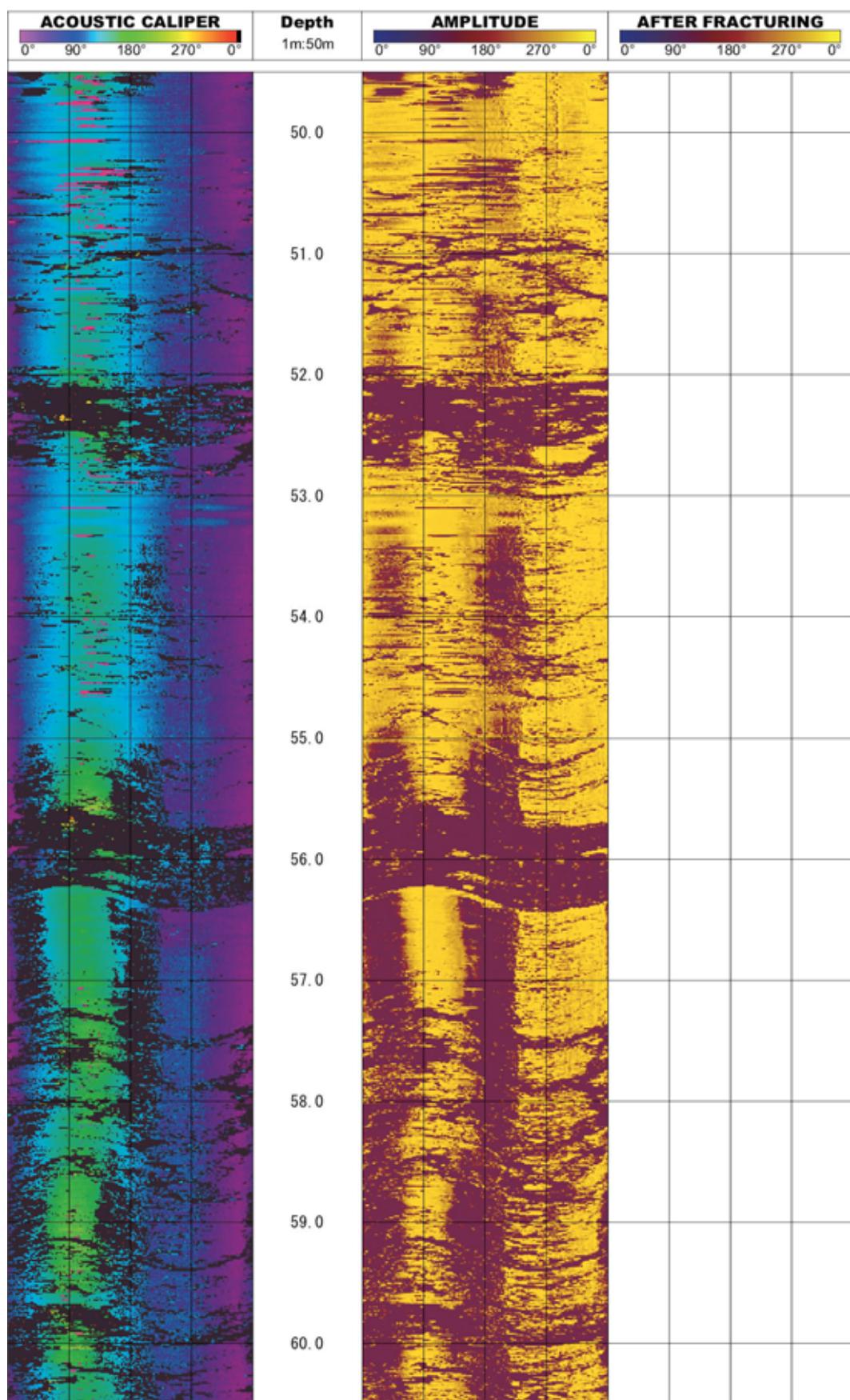
傾斜孔 (slant hole)



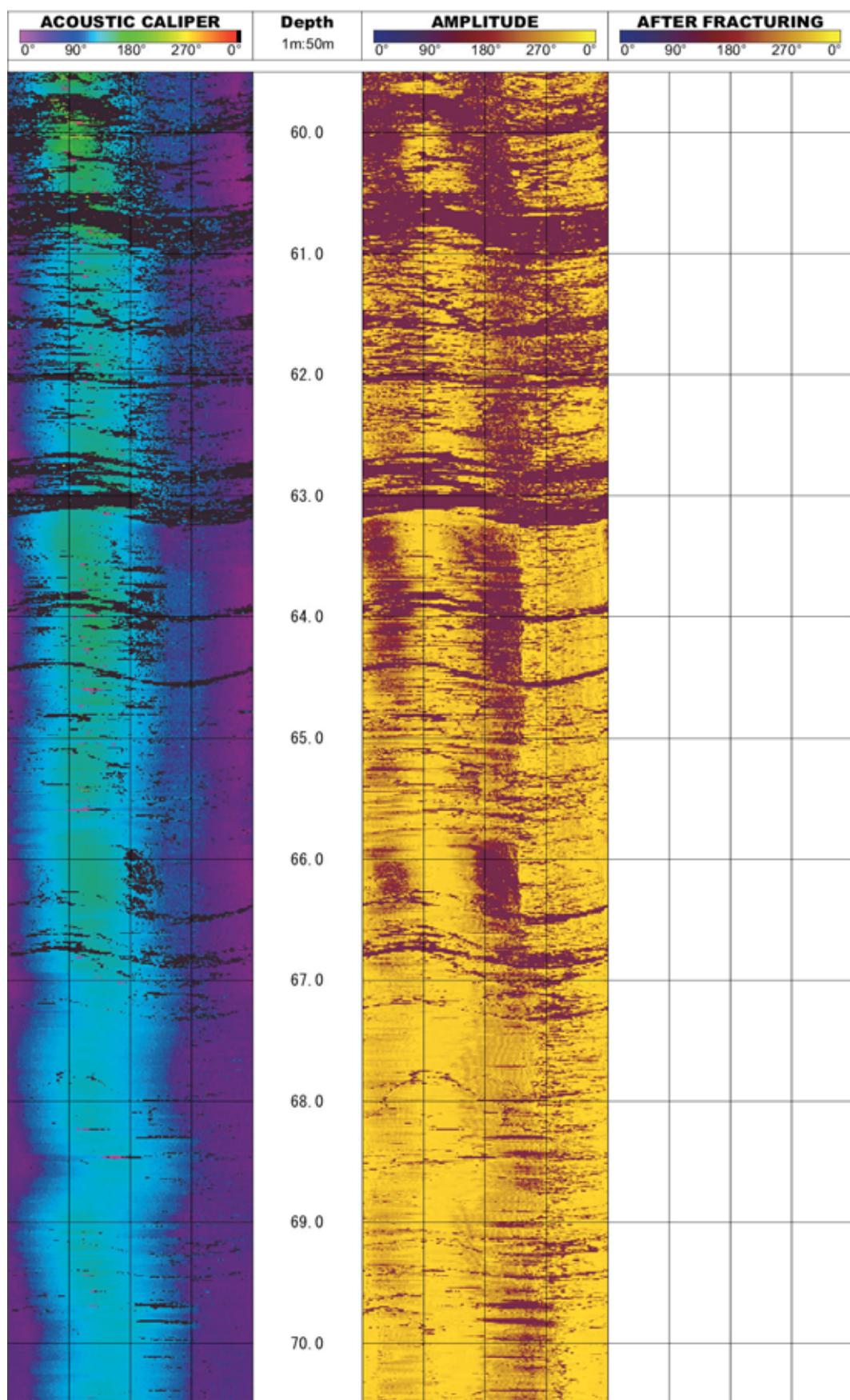
傾斜孔 (slant hole)



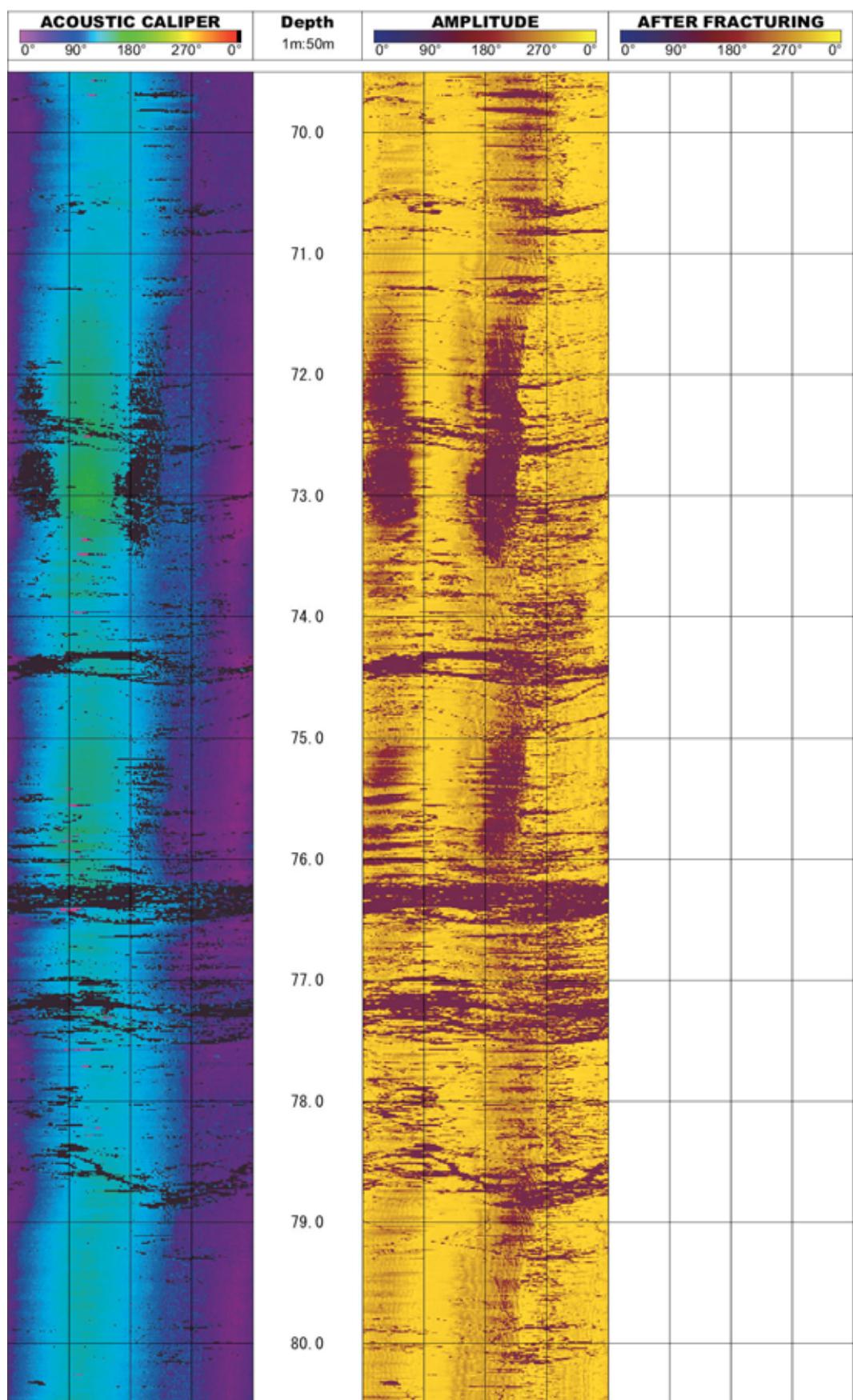
傾斜孔 (slant hole)



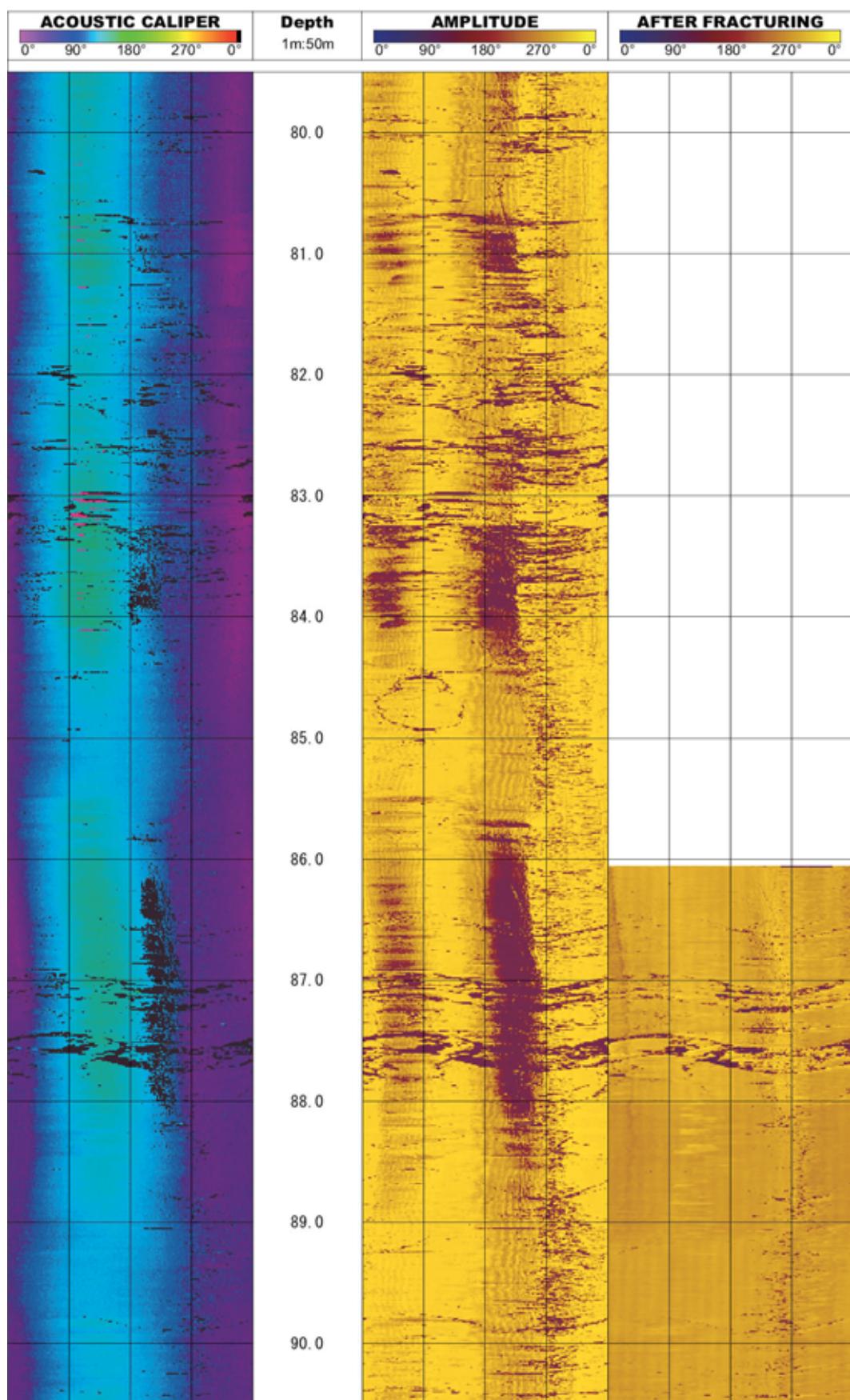
傾斜孔 (slant hole)



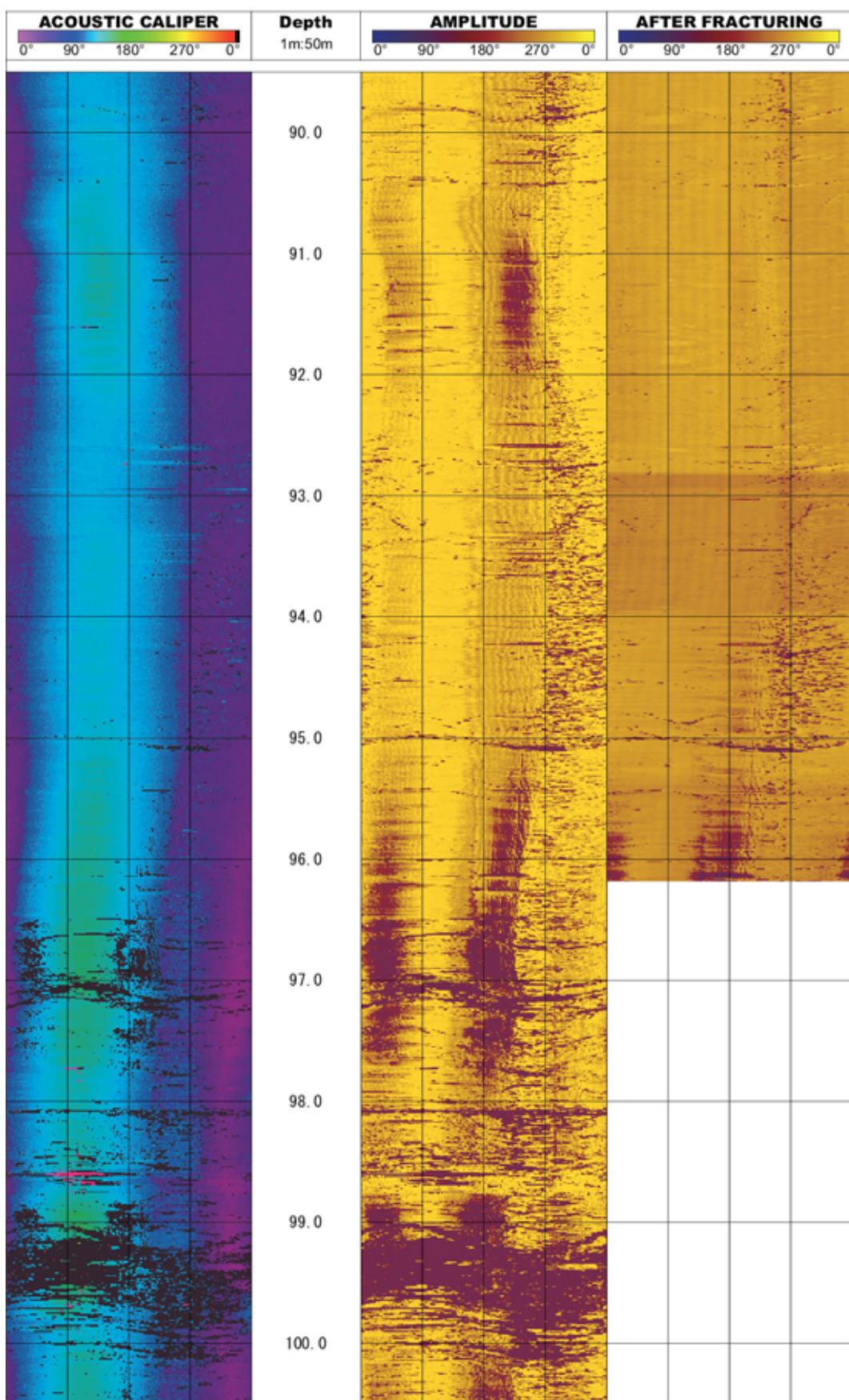
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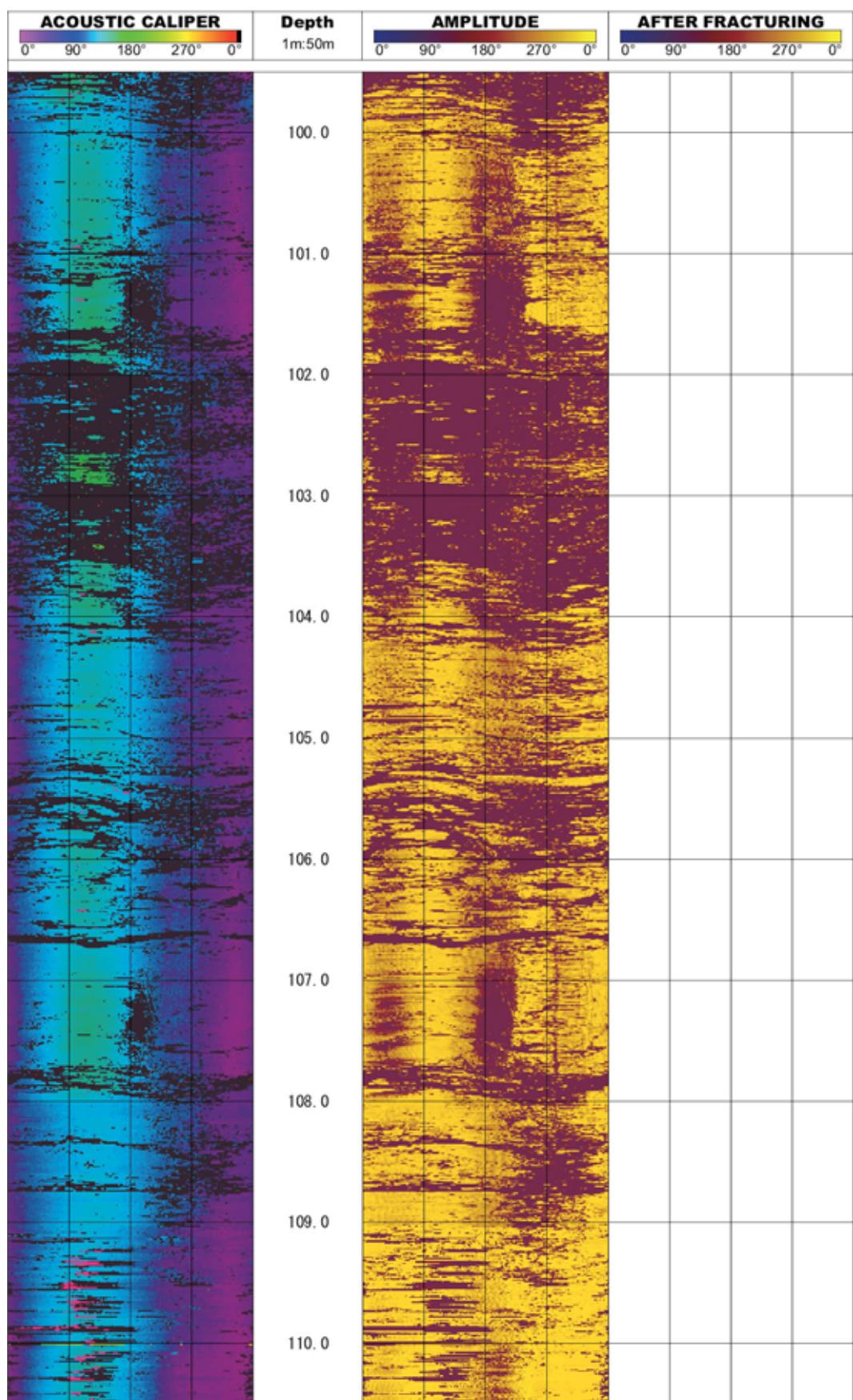
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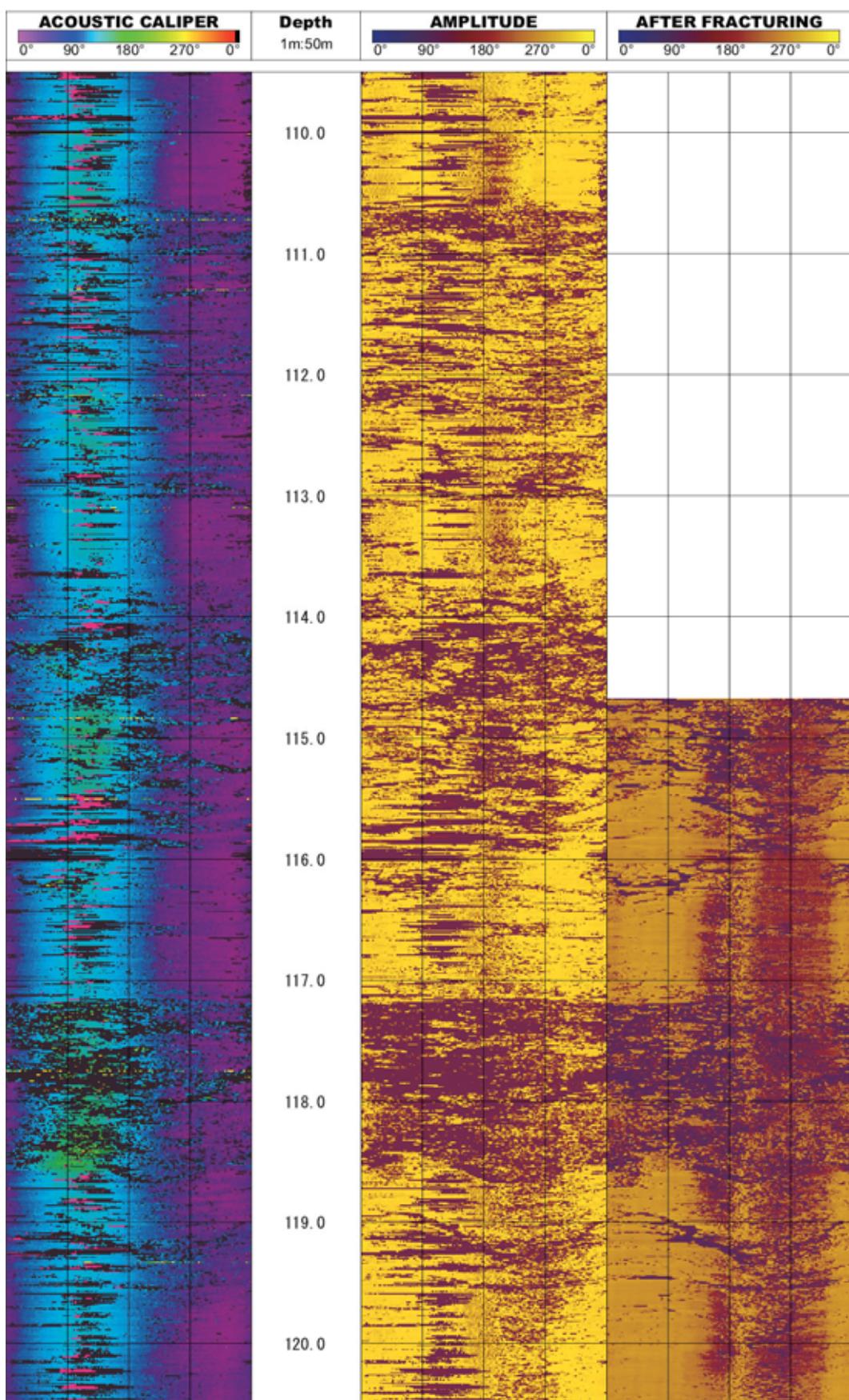
傾斜孔 (slant hole)



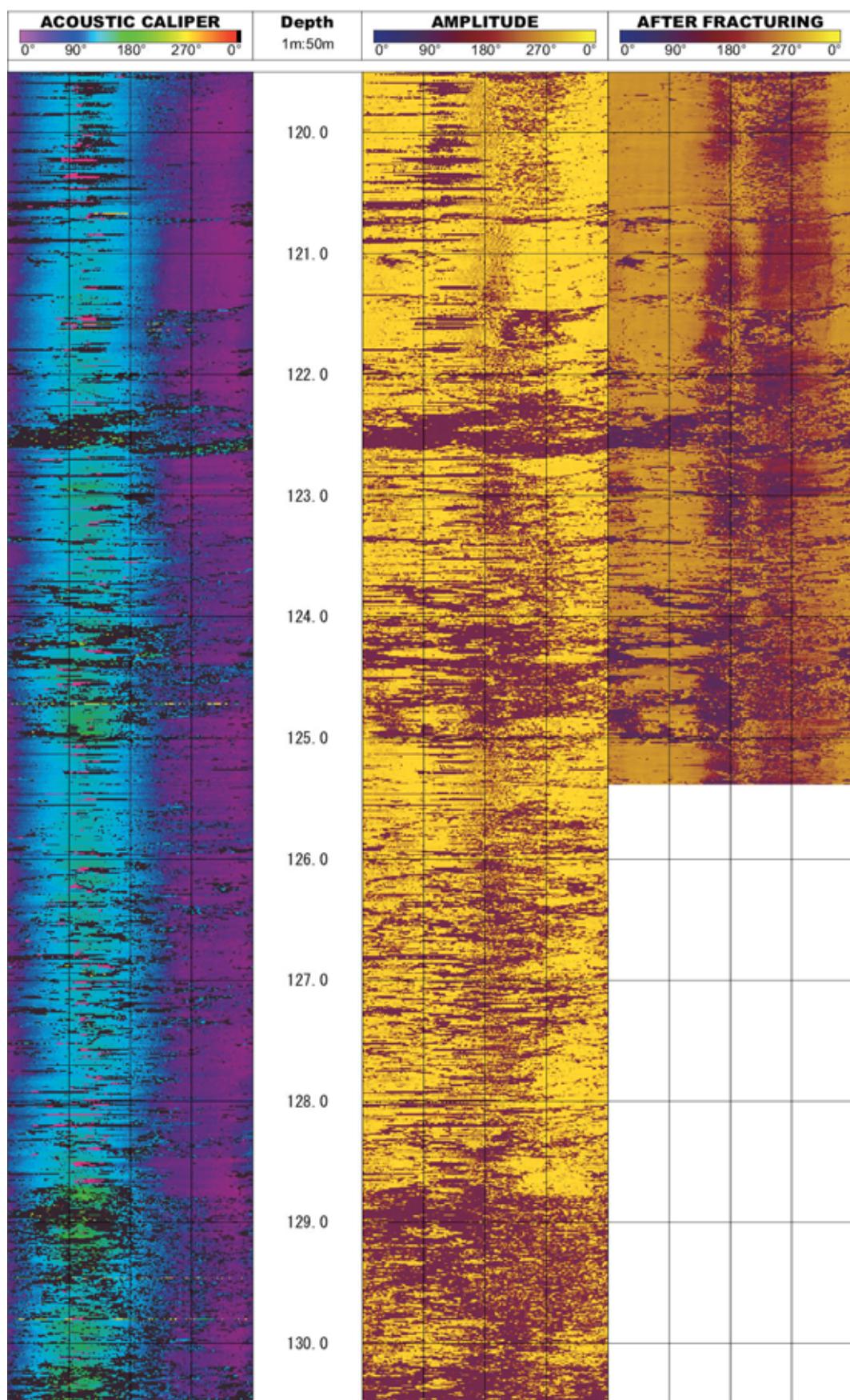
傾斜孔 (slant hole)



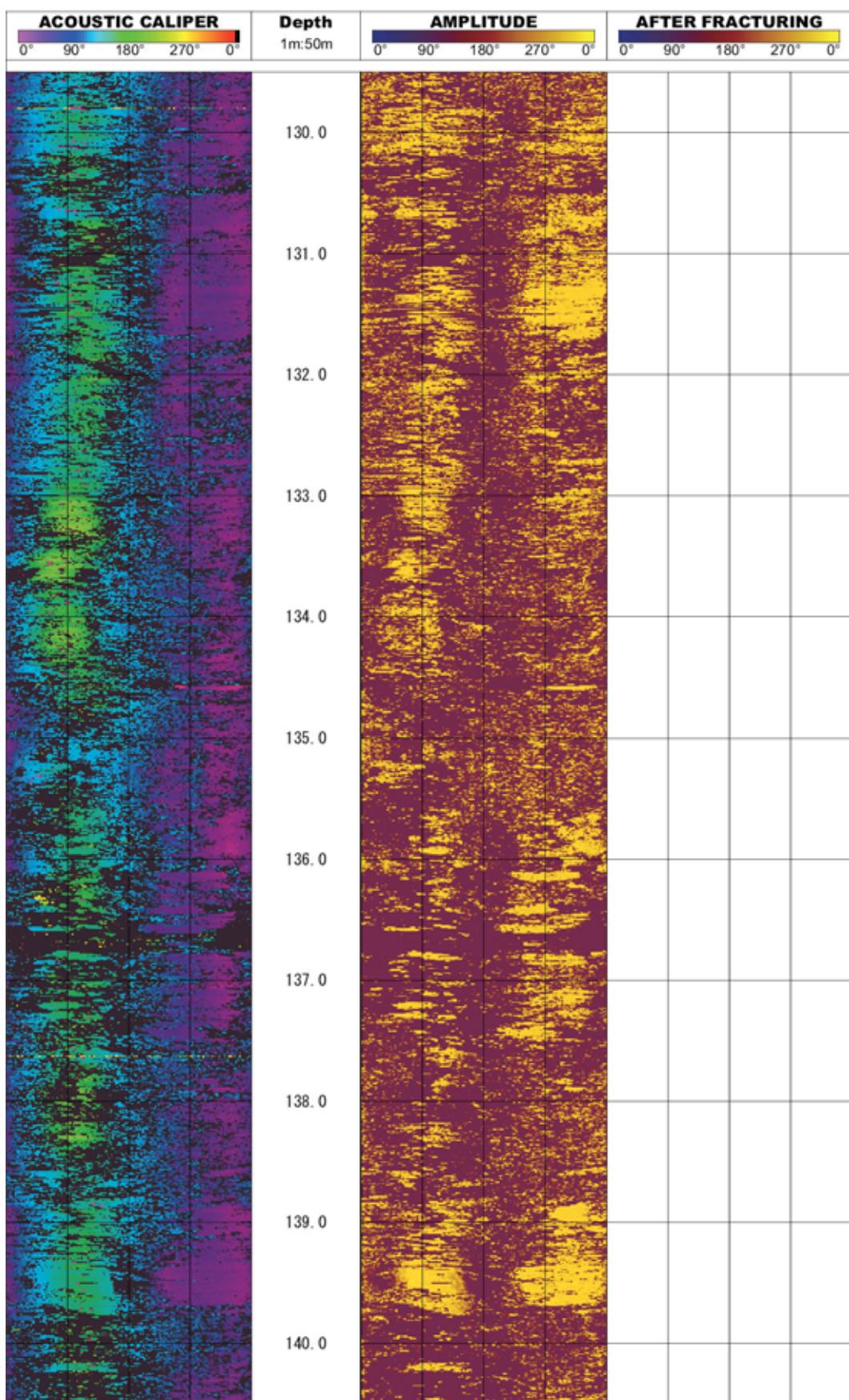
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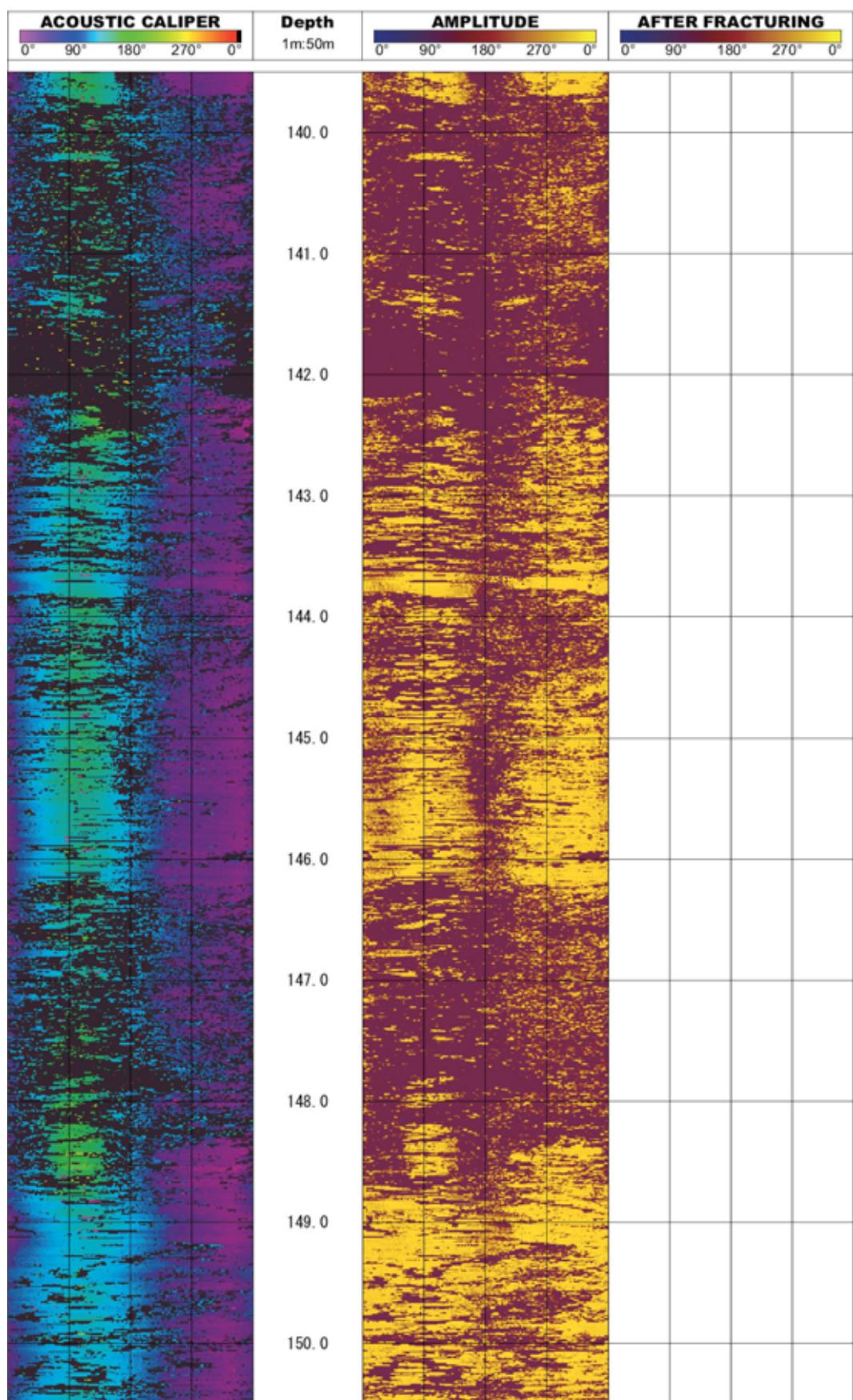
傾斜孔 (slant hole)



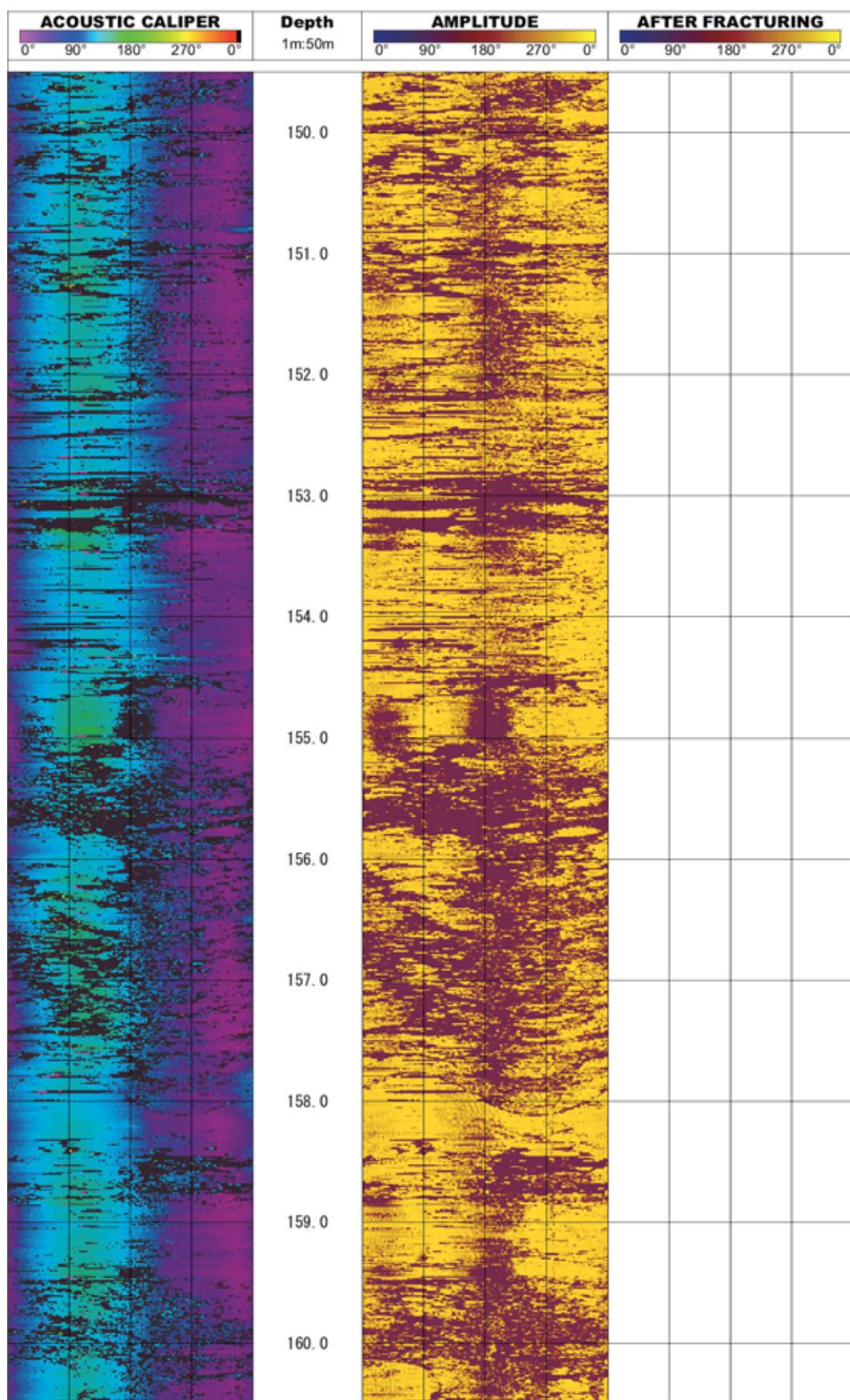
傾斜孔 (slant hole)



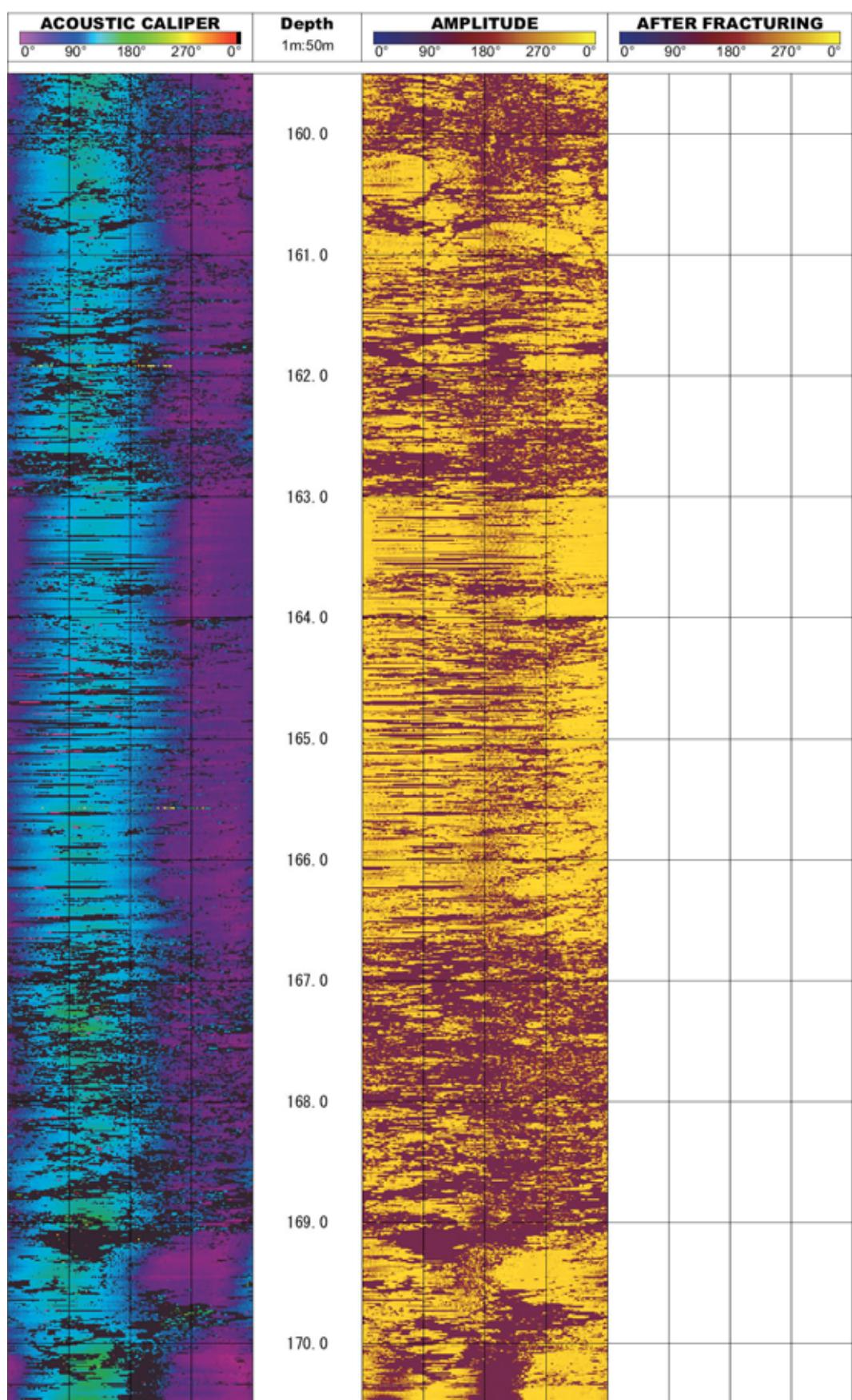
傾斜孔 (slant hole)



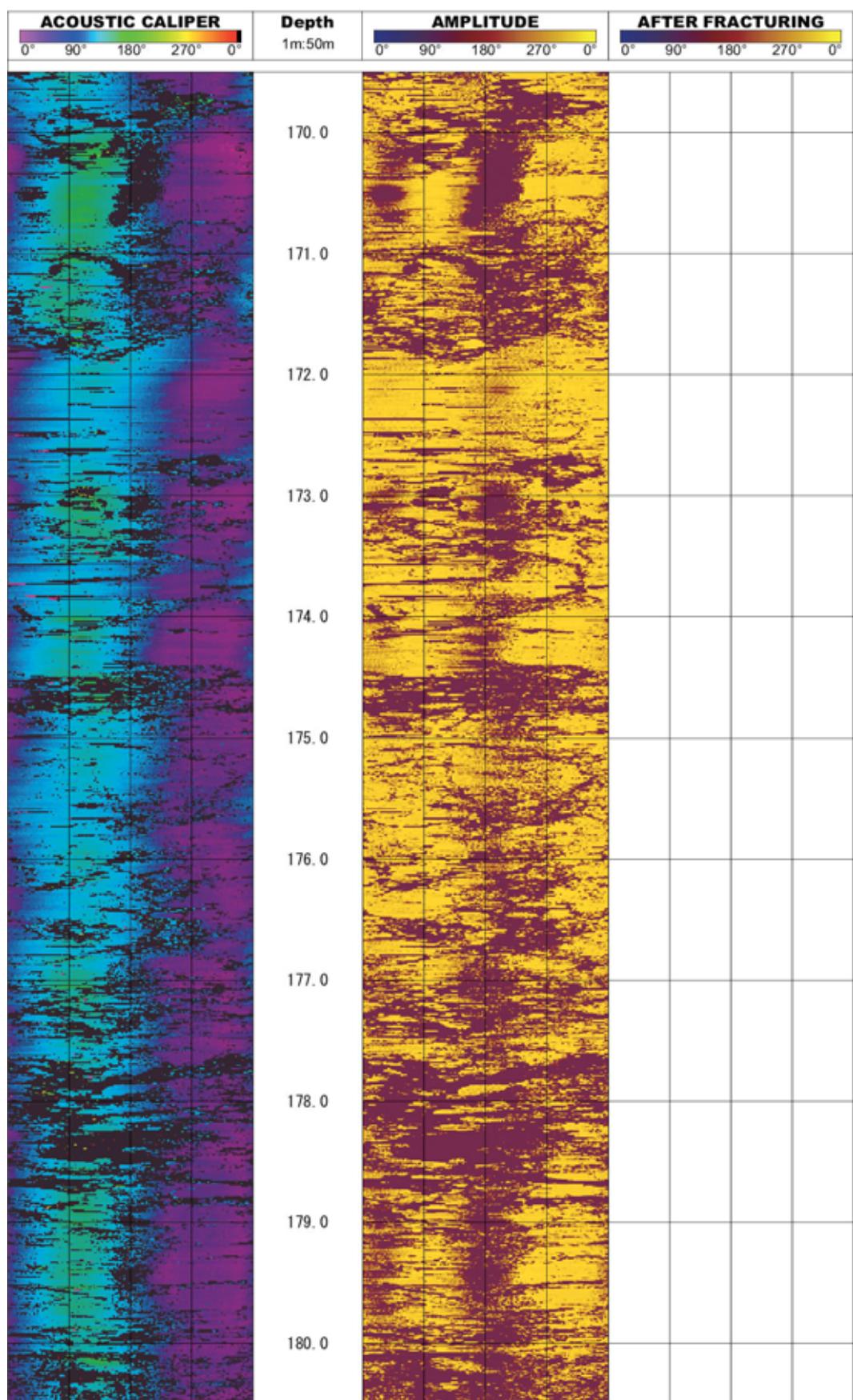
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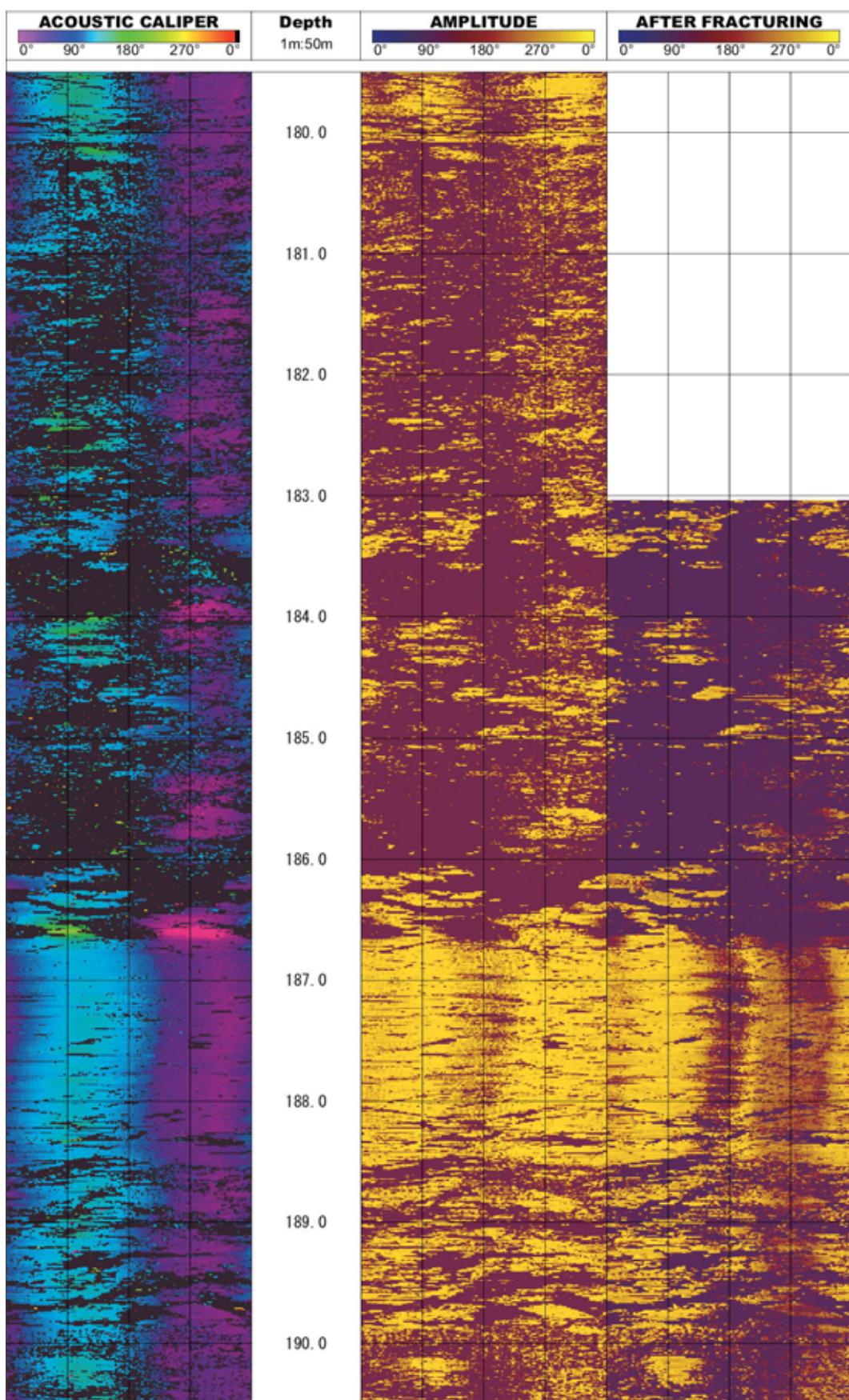
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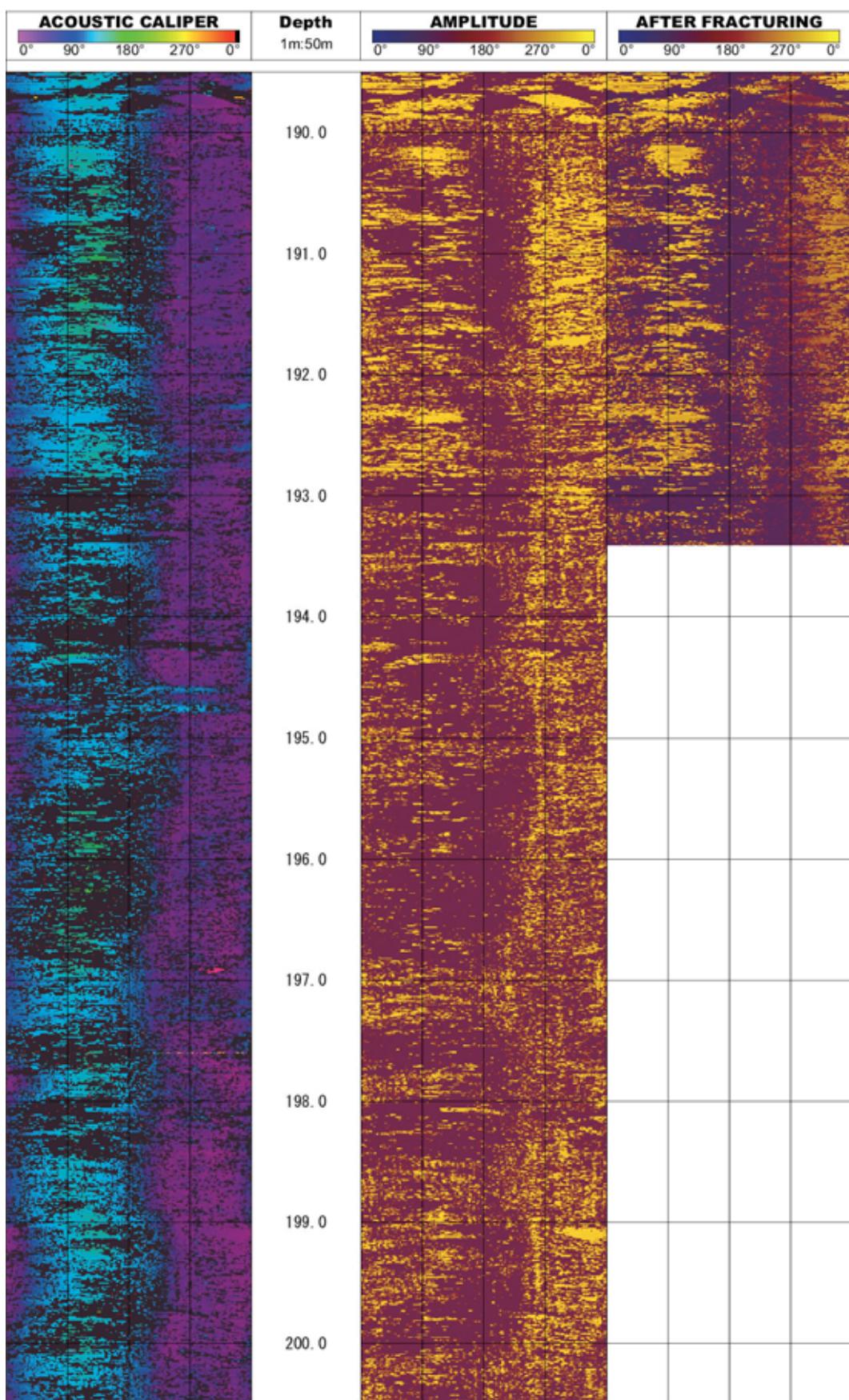
傾斜孔 (slant hole)



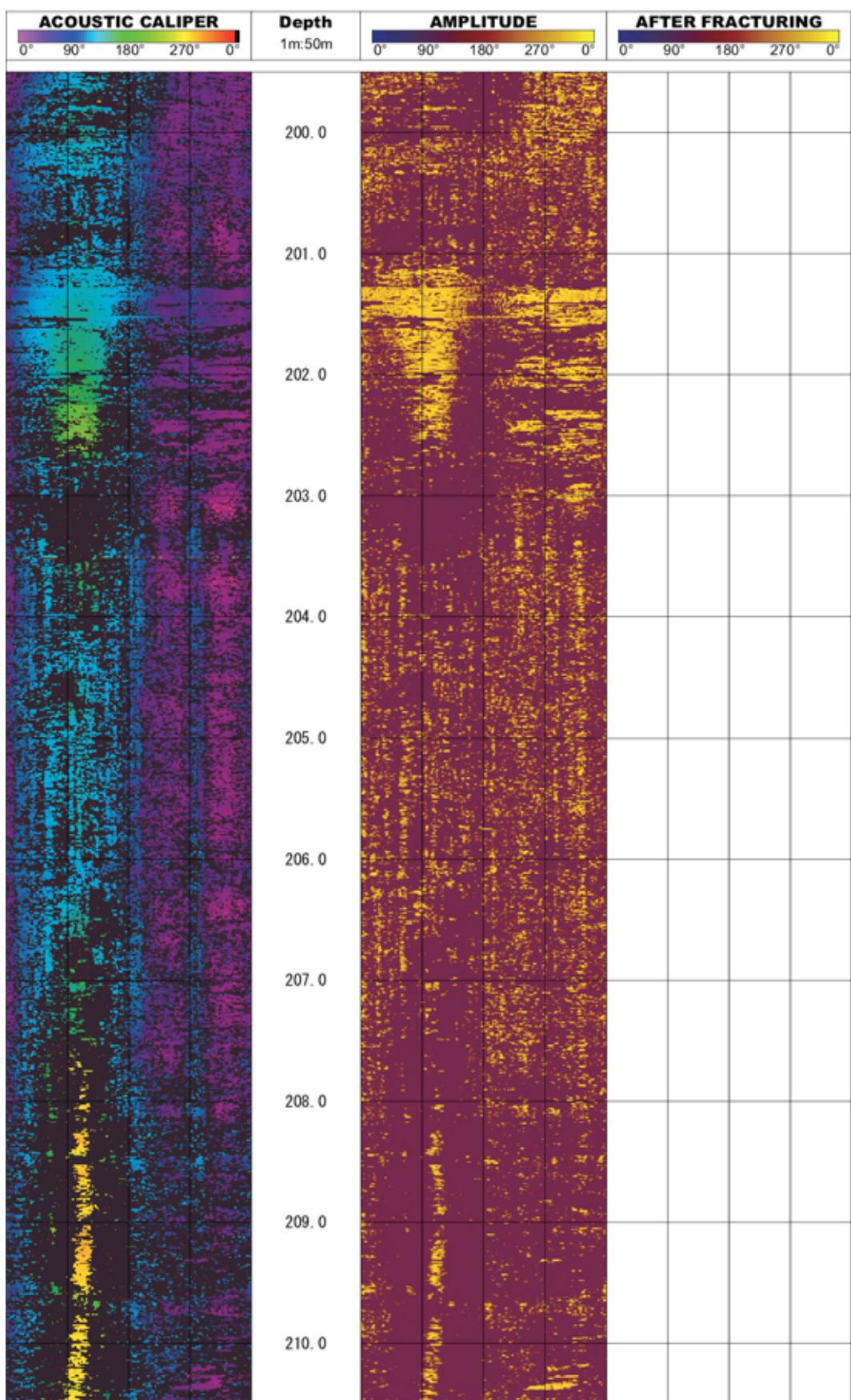
傾斜孔 (slant hole)



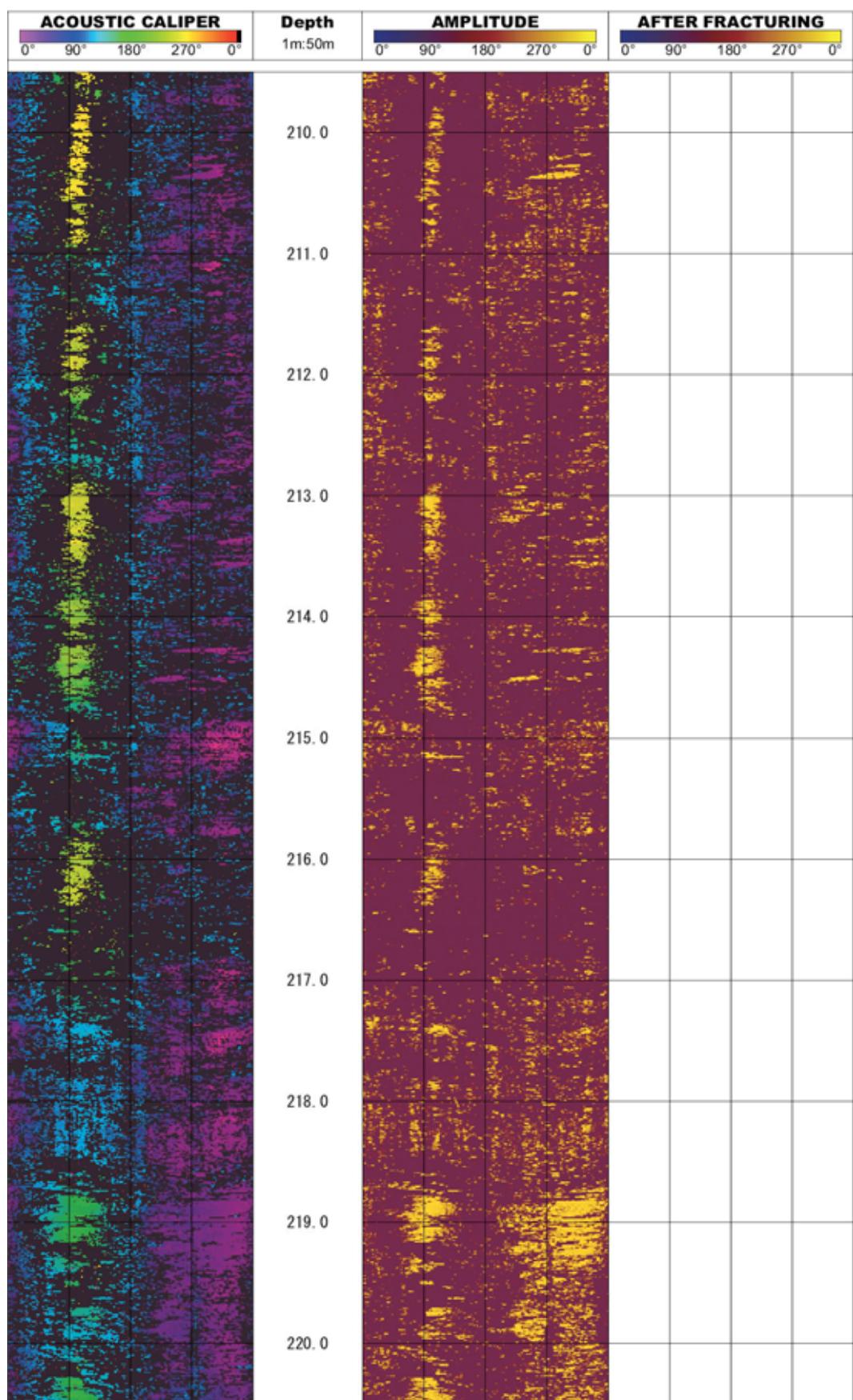
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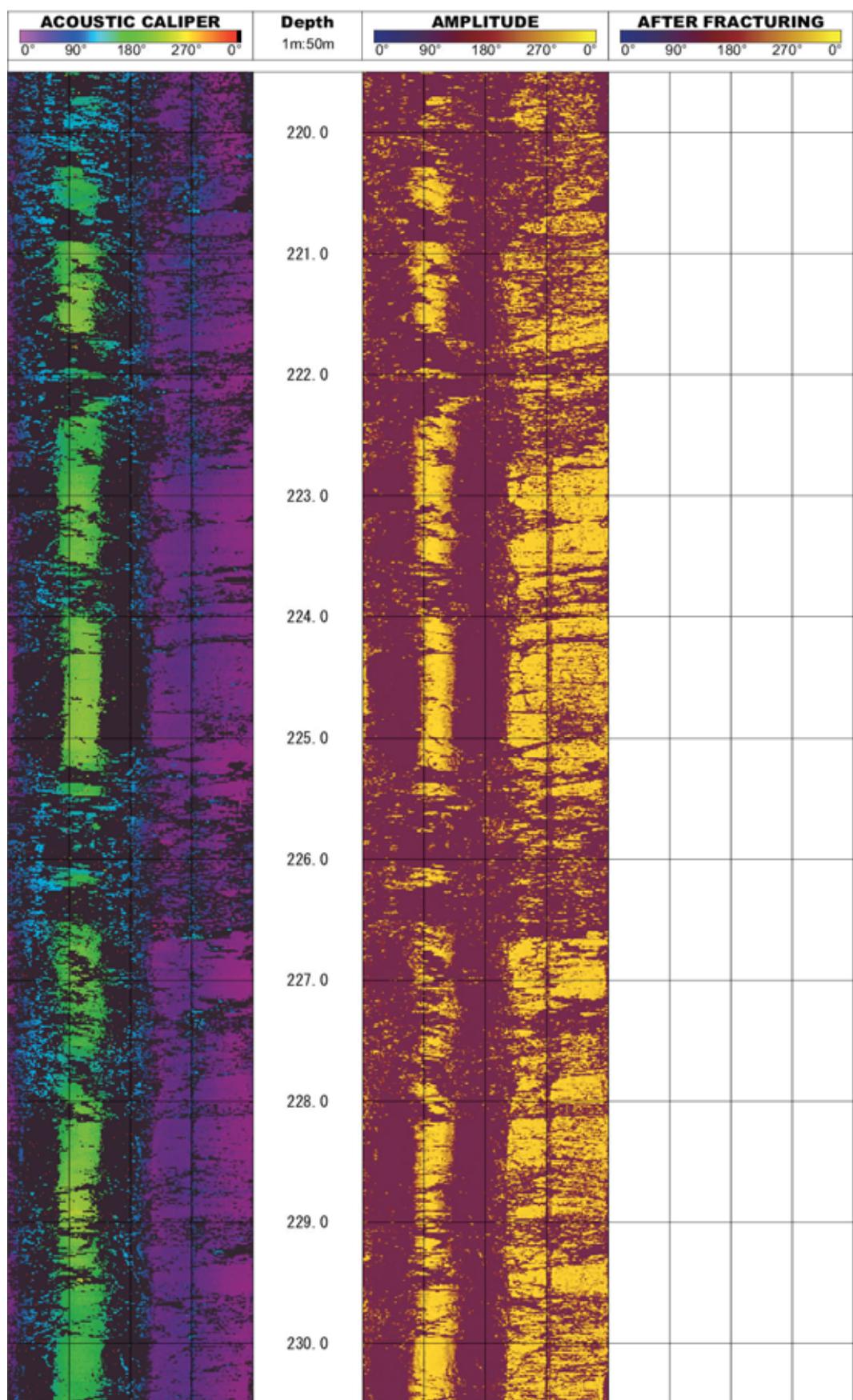
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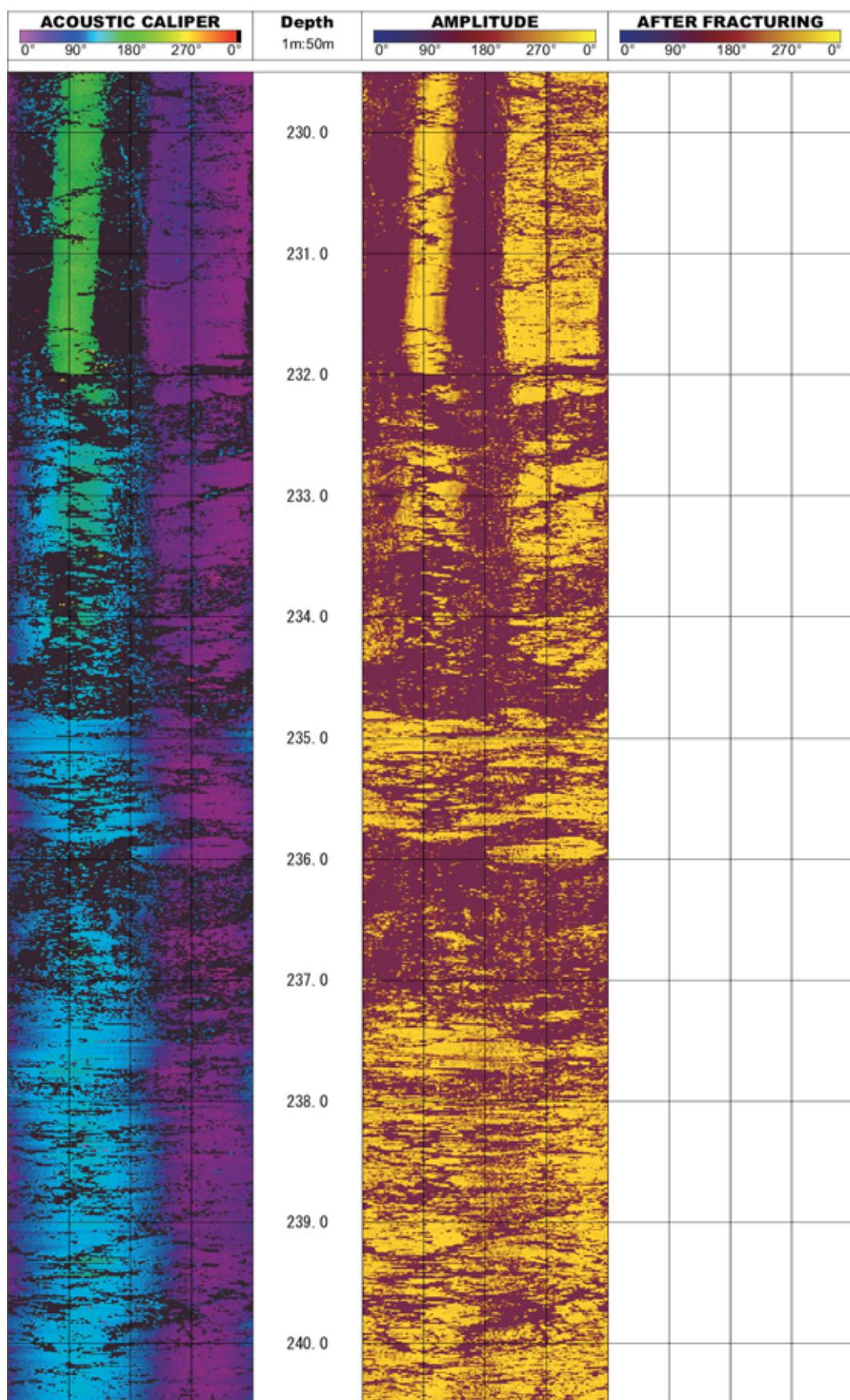
傾斜孔 (slant hole)



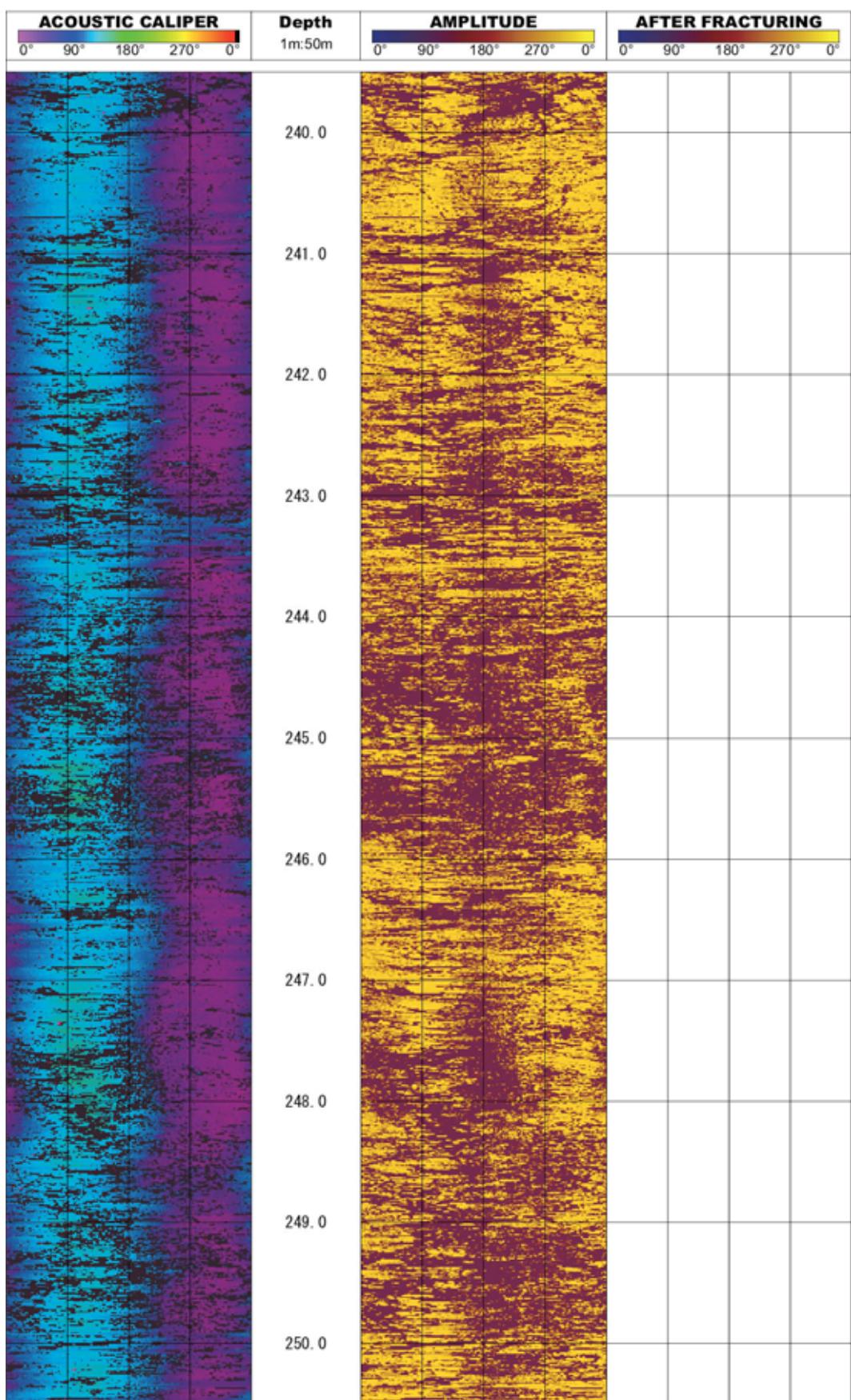
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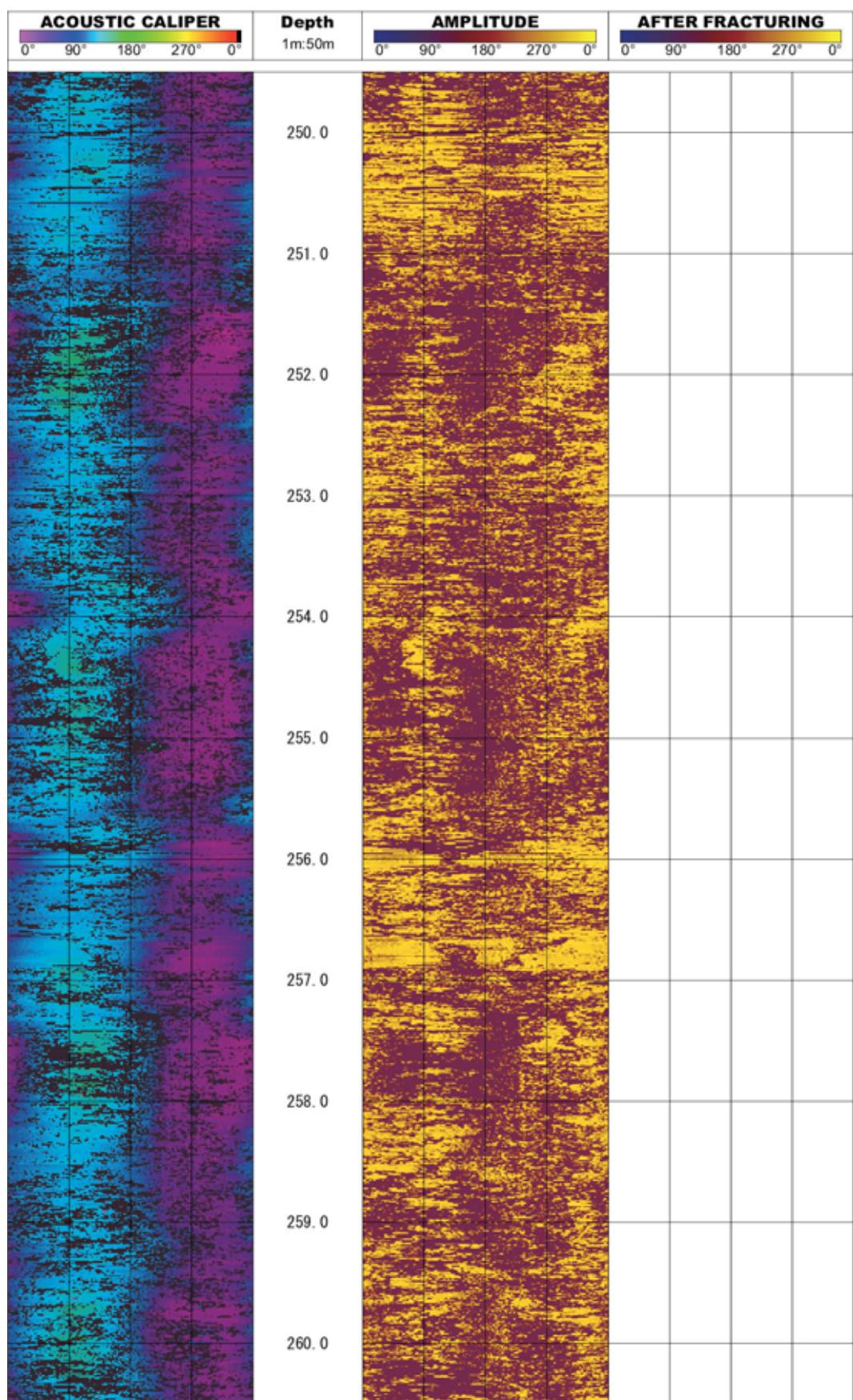
傾斜孔 (slant hole)



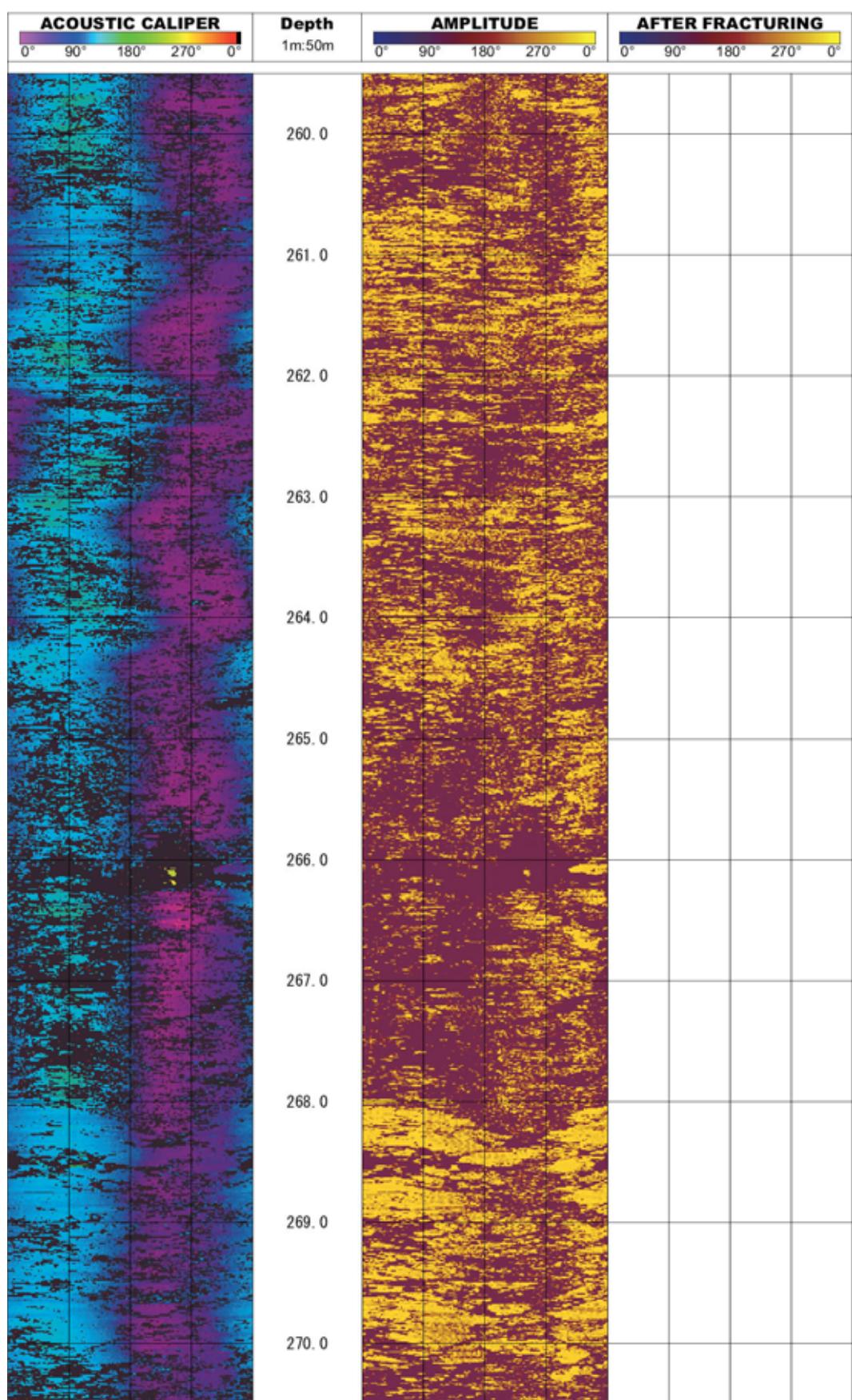
傾斜孔 (slant hole)



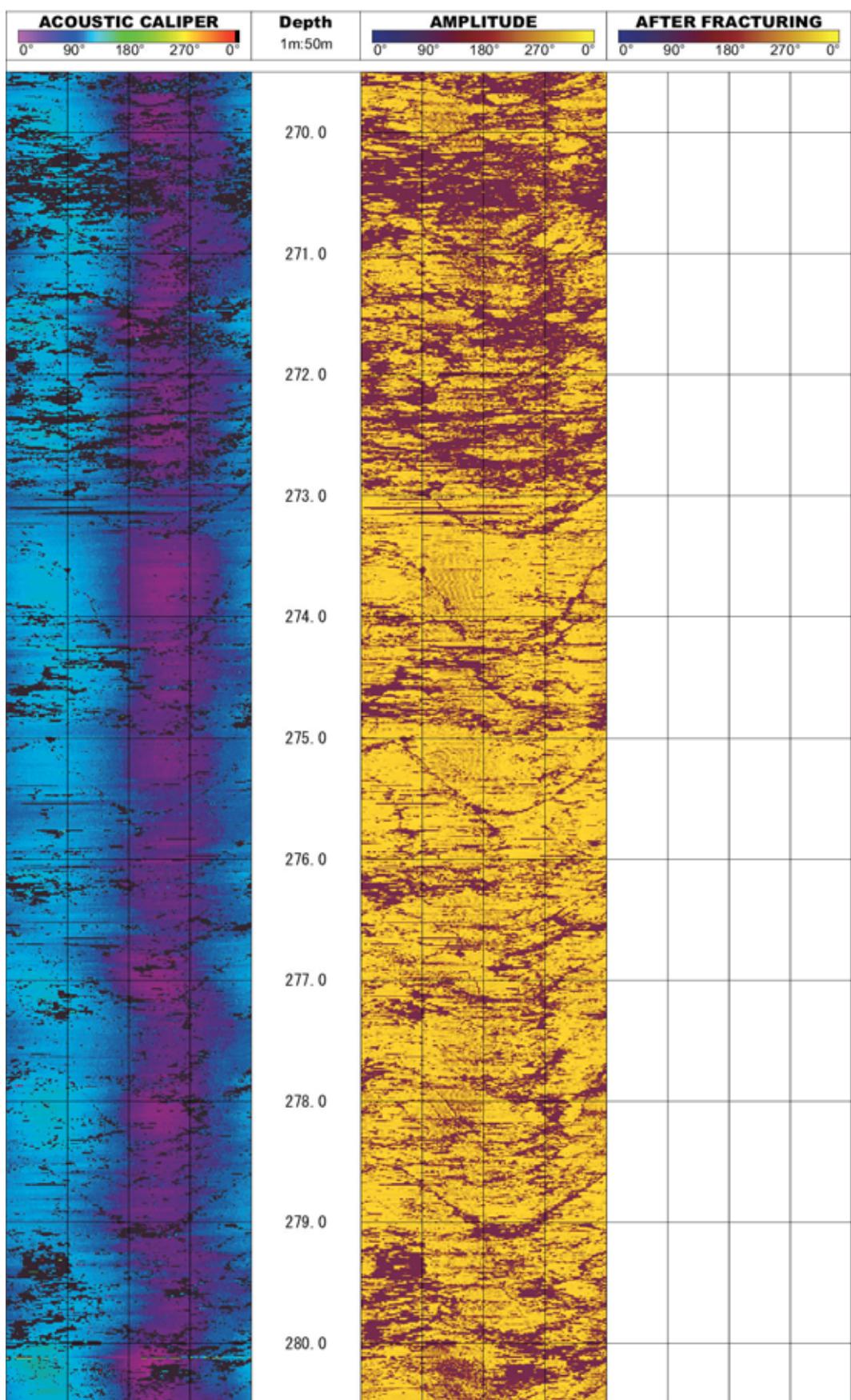
傾斜孔 (slant hole)



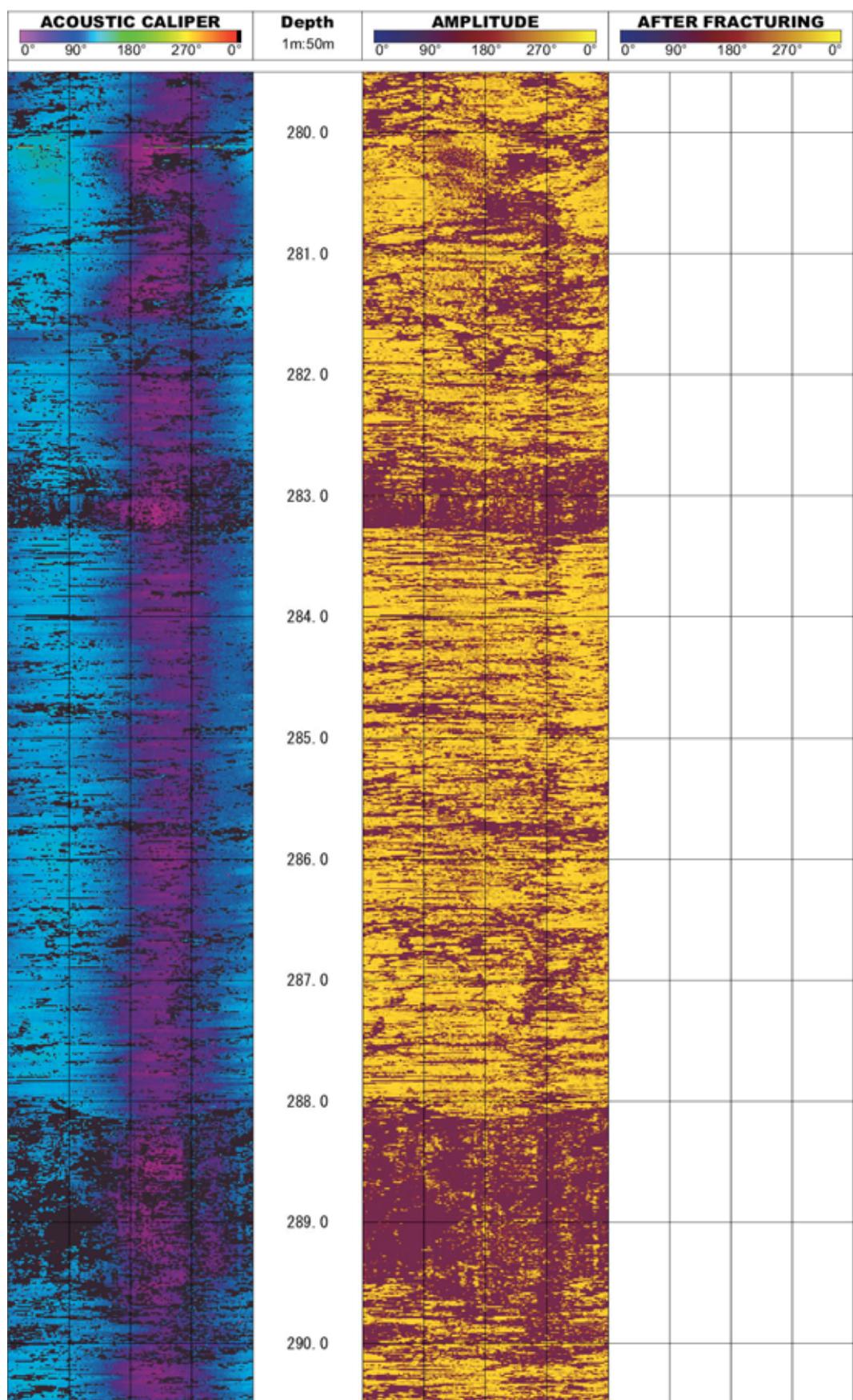
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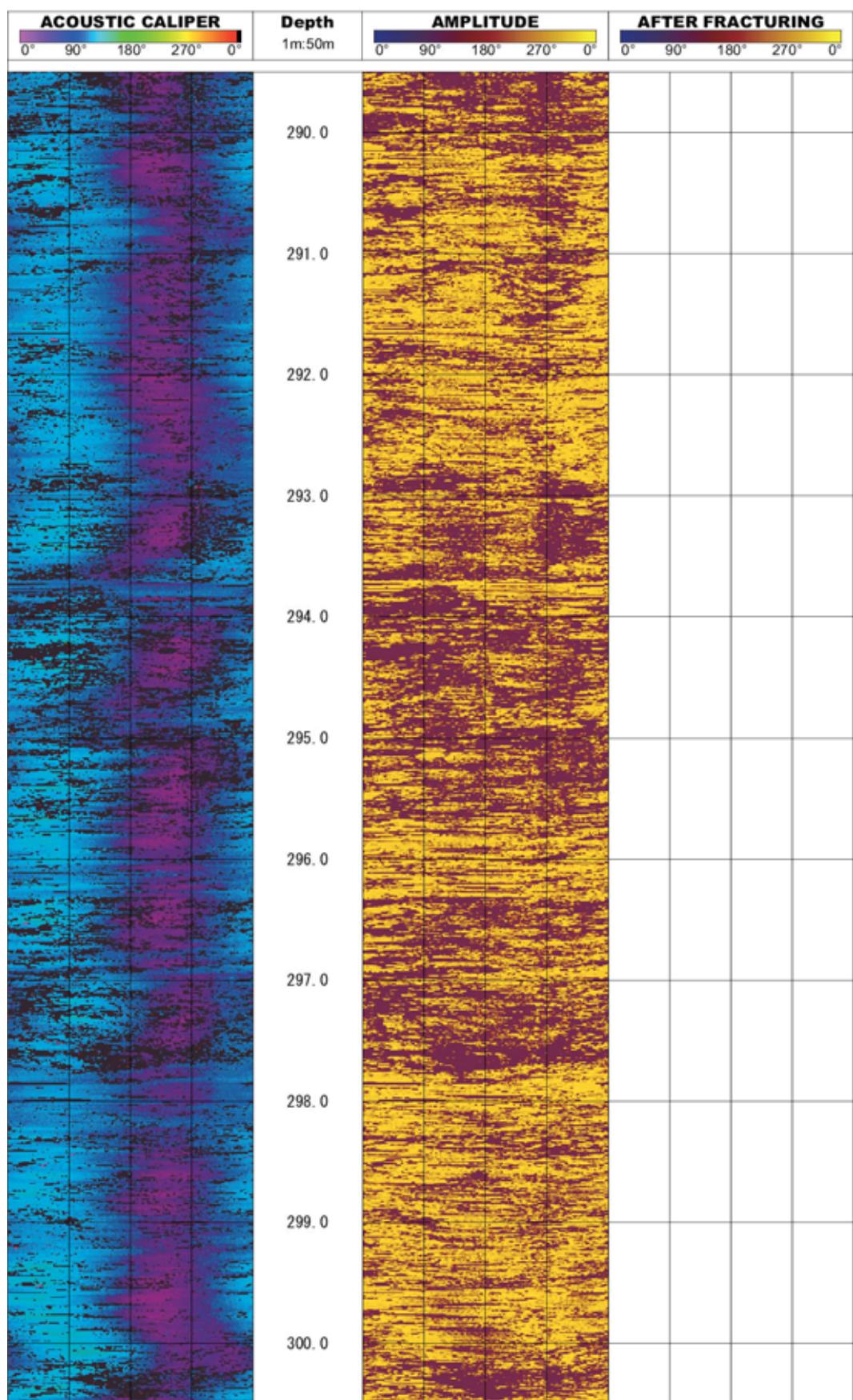
傾斜孔 (slant hole)



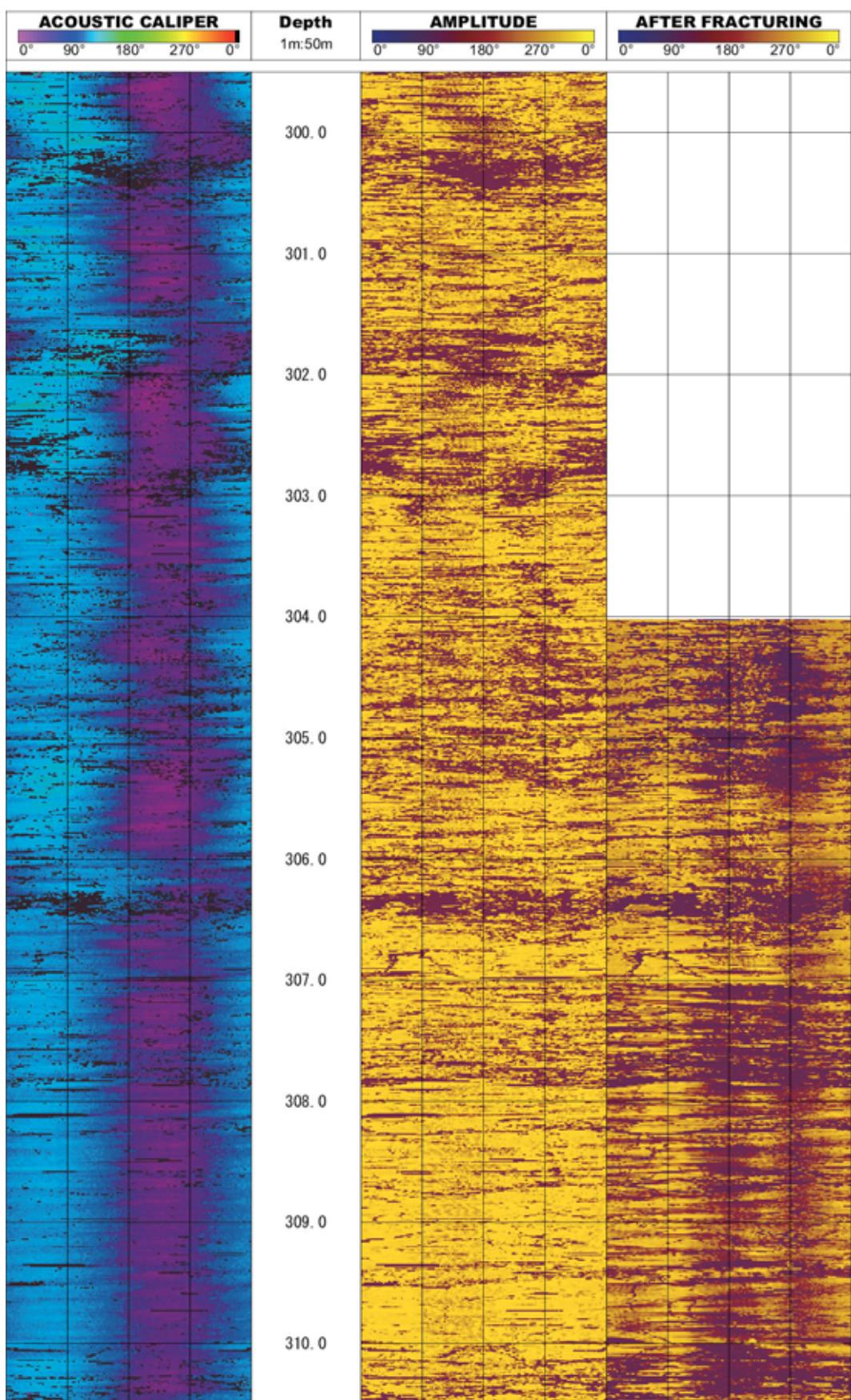
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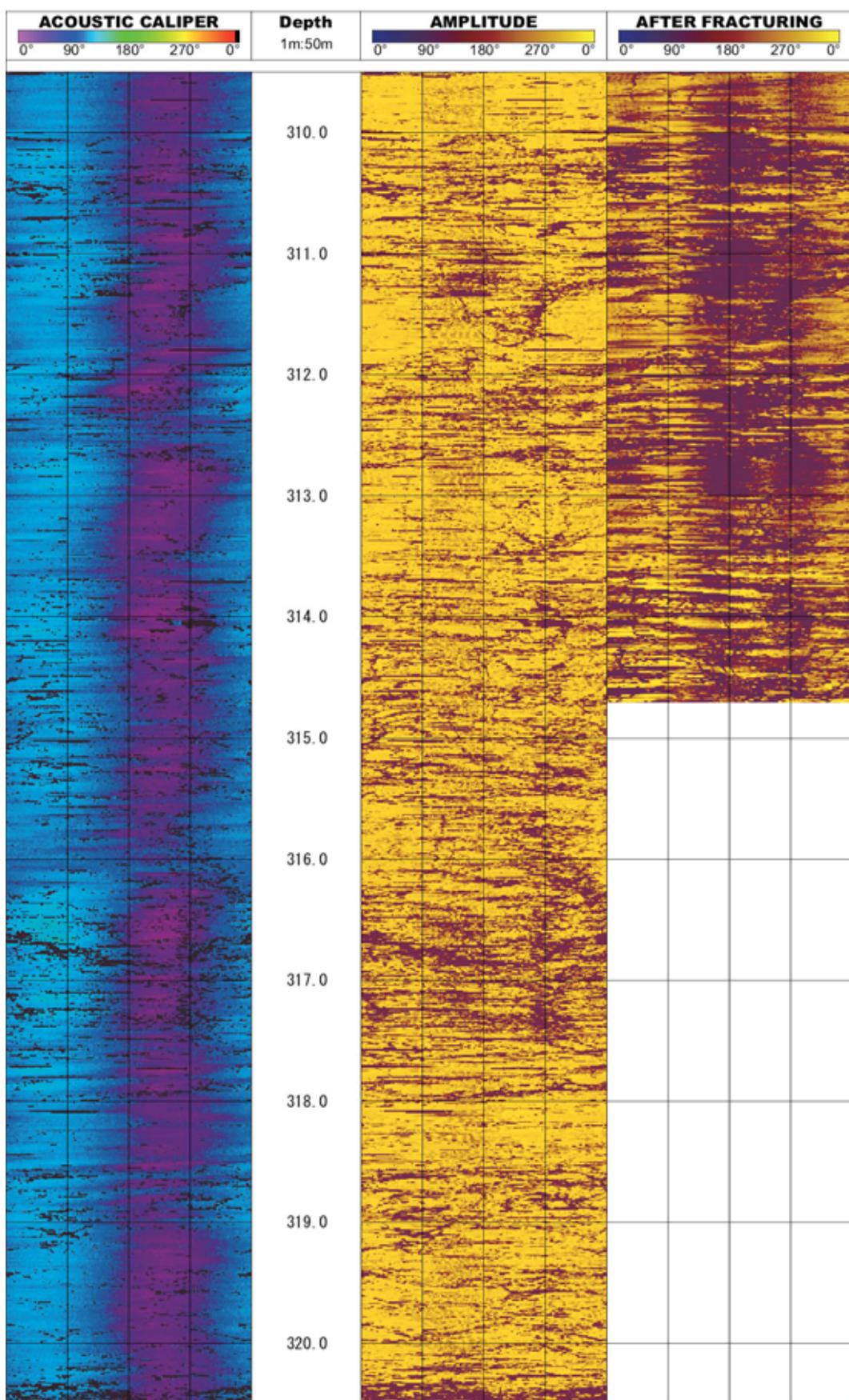
傾斜孔 (slant hole)



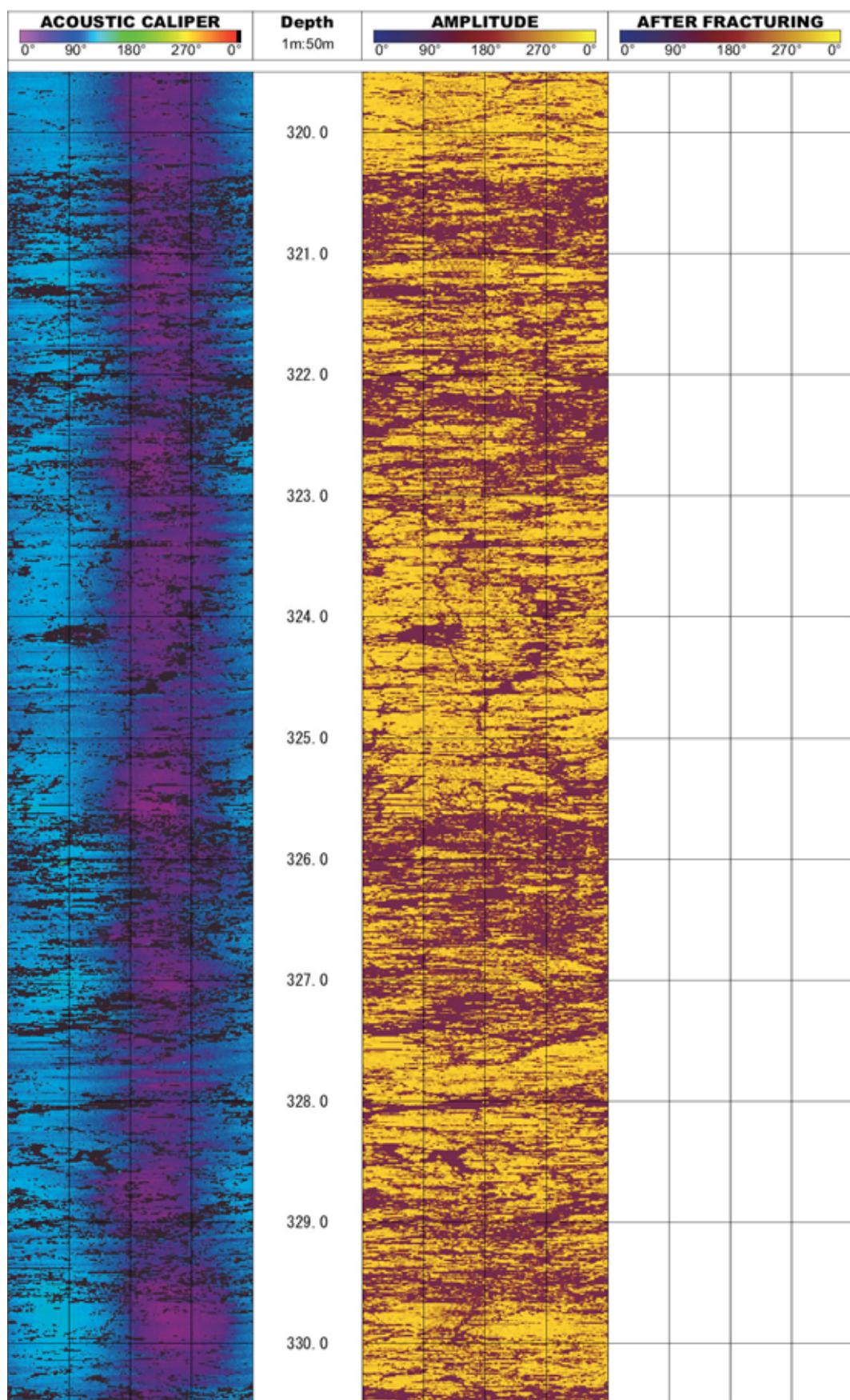
傾斜孔 (slant hole)



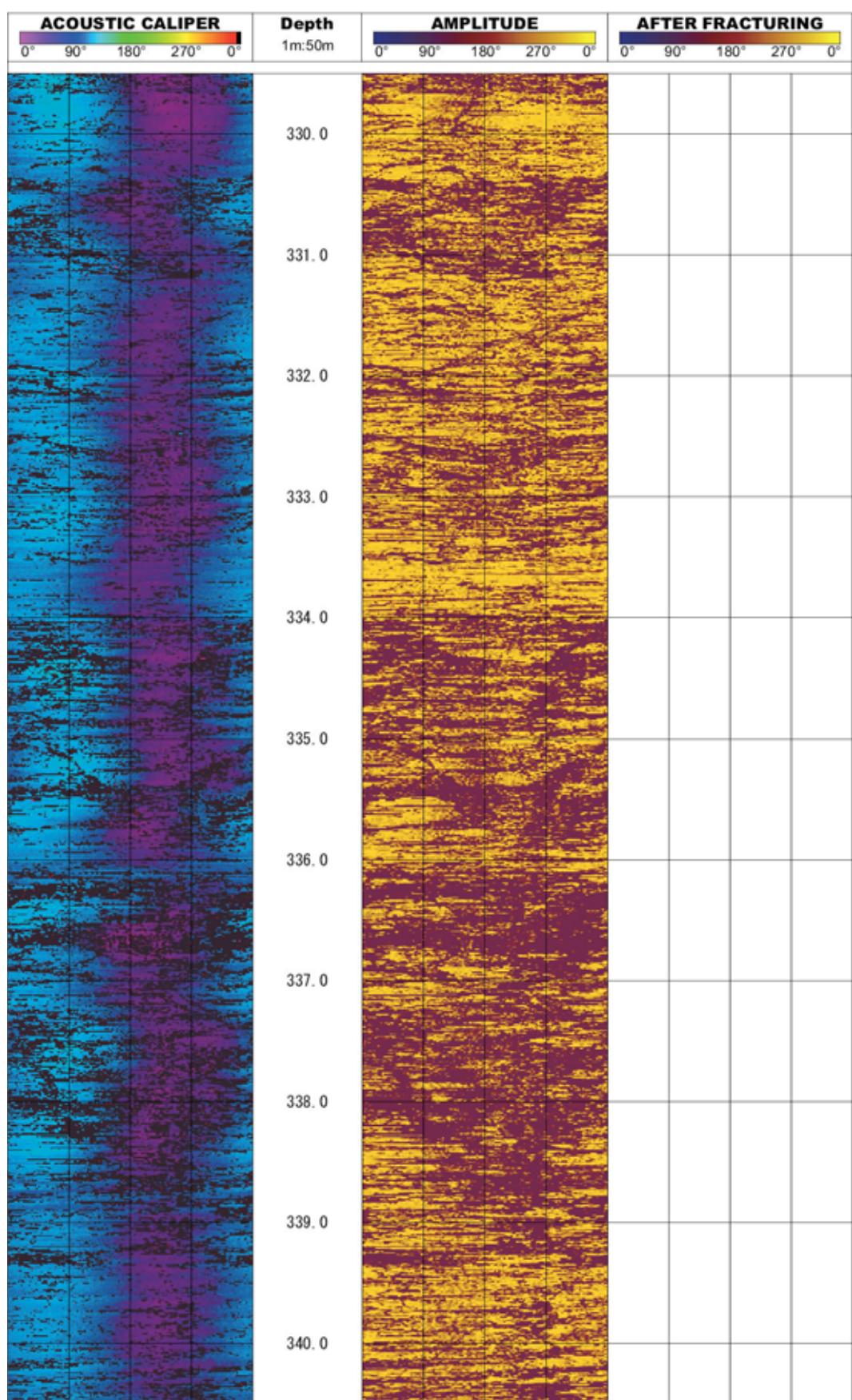
傾斜孔 (slant hole)



傾斜孔 (slant hole)



傾斜孔 (slant hole)



傾斜孔 (slant hole)

