



ACOUSTIC IMAGER

Tool overview

The acoustic imager produces an image of the borehole wall using the travel time and amplitude of an acoustic signal transmitted and received by a rotating ultrasonic sensor in the tool. The variance of the acoustic properties of the formation and associated features enable the nature of fractures, fissures, veins, bedding planes and lithology changes to be determined. The acoustic image below shows both fractures and bedding. The image is then orientated to magnetic north and displayed as an unwrapped image log.

Features and benefits

- Detailed structural information
- Fracture detection and evaluation
- Images and associated data viewed in real time during data acquisition
- Generates colour image based on wave echo
- In unstable boreholes an acoustic image can be recorded through plastic casing

Logging

Conditions

0.5–2m/min

Centralised

Borehole

Conditions

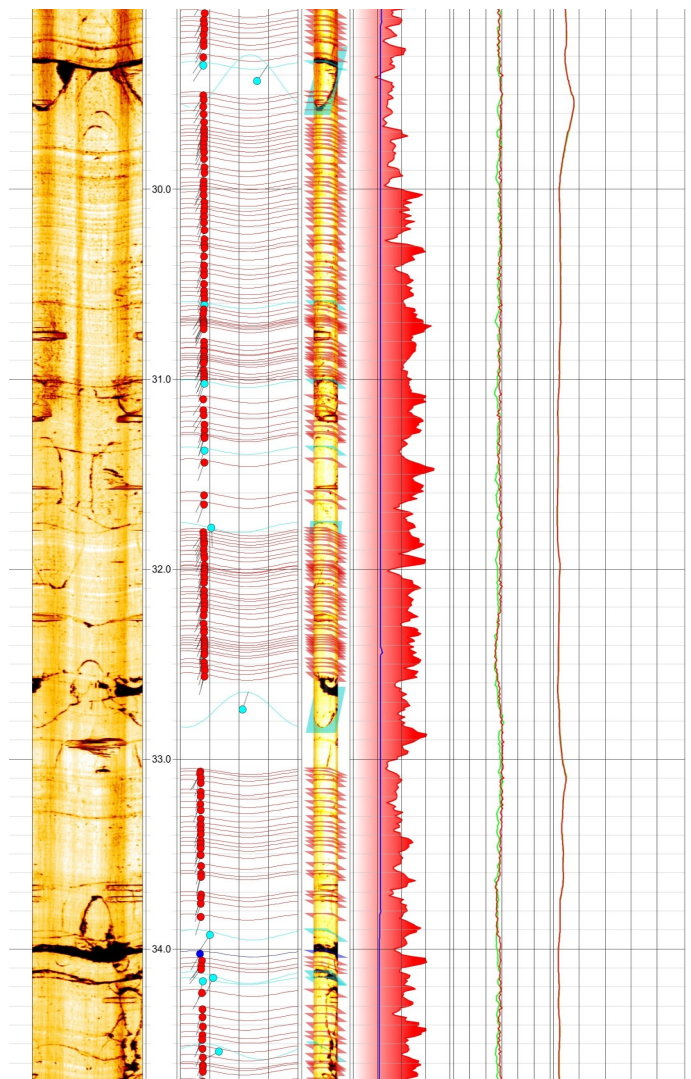
Minimum diameter 76mm

Maximum diameter 500mm

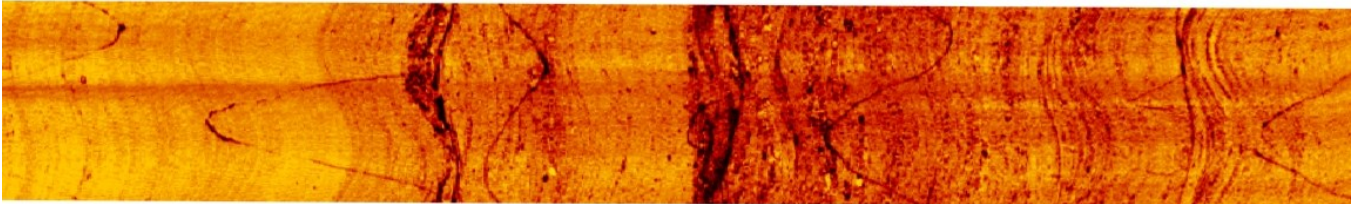
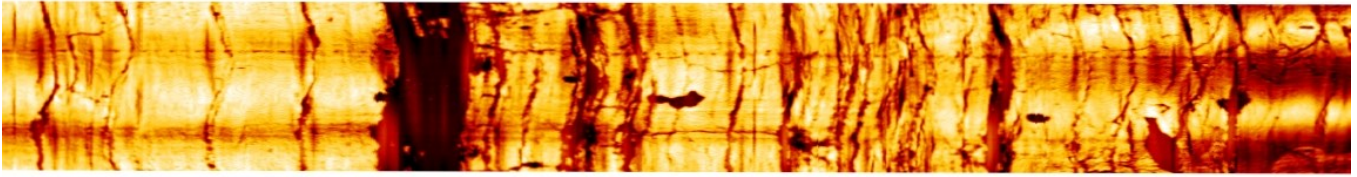
Cored or rotary drilled boreholes

Fluid or mud filled

Open hole or plastic cased



ACOUSTIC IMAGE EXAMPLES



First image is through plastic casing

Specifications

Size	1680 x 40mm
Weight	6kg
Tilt	0°–90°
Azimuth	0°–360°
Vertical resolution	User defined up to 0.5mm
Horizontal resolution	User defined up to 288 measurements/revolution
Rotation speed	Up to 10 revolutions per second
Caliper resolution	0.08mm
Max. temperature	80°C
Max. pressure	20MPa

Why European Geophysical Services?

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