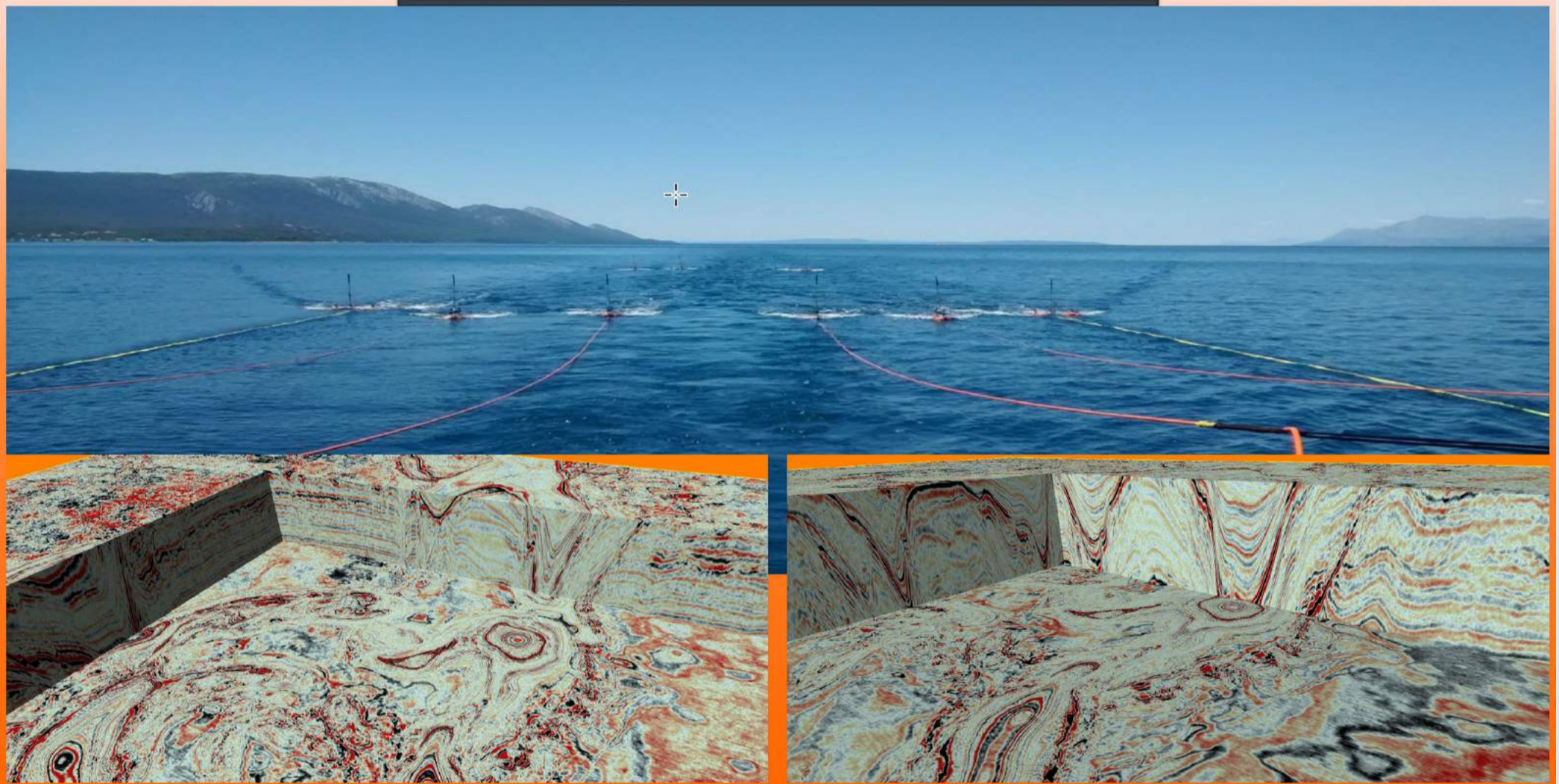


# SOLID EARTH SEMINARS

## 3D ULTRA HIGH RESOLUTION SEISMICS (UHRS)



### 3D Ultra High Resolution Seismics (UHRS)



### WHAT'S THIS ABOUT?

We present the current state of the art in ultra-high-resolution 3D seismic surveying, which takes the 3D-resolution and 3D-imaging one step further: to frequency ranges up to 2.5 kHz and 0.5-m bin sizes. This system is based on ultra-high-resolution sparker sources using negative discharge technology, thus guaranteeing a stable and repeatable source signature. The high-fidelity multi-channel recording system is composed of 48-trace streamers with GPS positioning on both sources and receivers. This technology allows the full 3D illumination and architectural reconstruction of sedimentary bodies and structures that could not be observed outside of large scale outcrops of open pit mining or similar operations. We will present several examples of recently surveyed sites, with particular attention given to a complex man made submarine delta, offshore SE Spain, which was built in a few decades during the 20th century, by massive piped disposal of mine tailings.

ZOOM



# Henrique Duarte

(Geosurveys, Consultores em Geofísica)

May 12

Wednesday: 13:00

PASS: RG234\_2021

<https://videoconf-colibri.zoom.us/j/89018419156>