Tap Oil T/47P PSTM

High resolution linear noise attenuation Test3

Processing flow

- Reformat
- Navigation merge
- Trace edit
- Low cut filter 3Hz 18dB
- Deterministic de-phase filter to convert data to zero phase using far field signature
- Resample to 4ms using AA filter 110Hz 96dB
- System delay correction
- Spherical divergence correction V*V*T using regional velocity
- Swell noise attenuation, threshold 2.25 and despiking; threshold 2.0
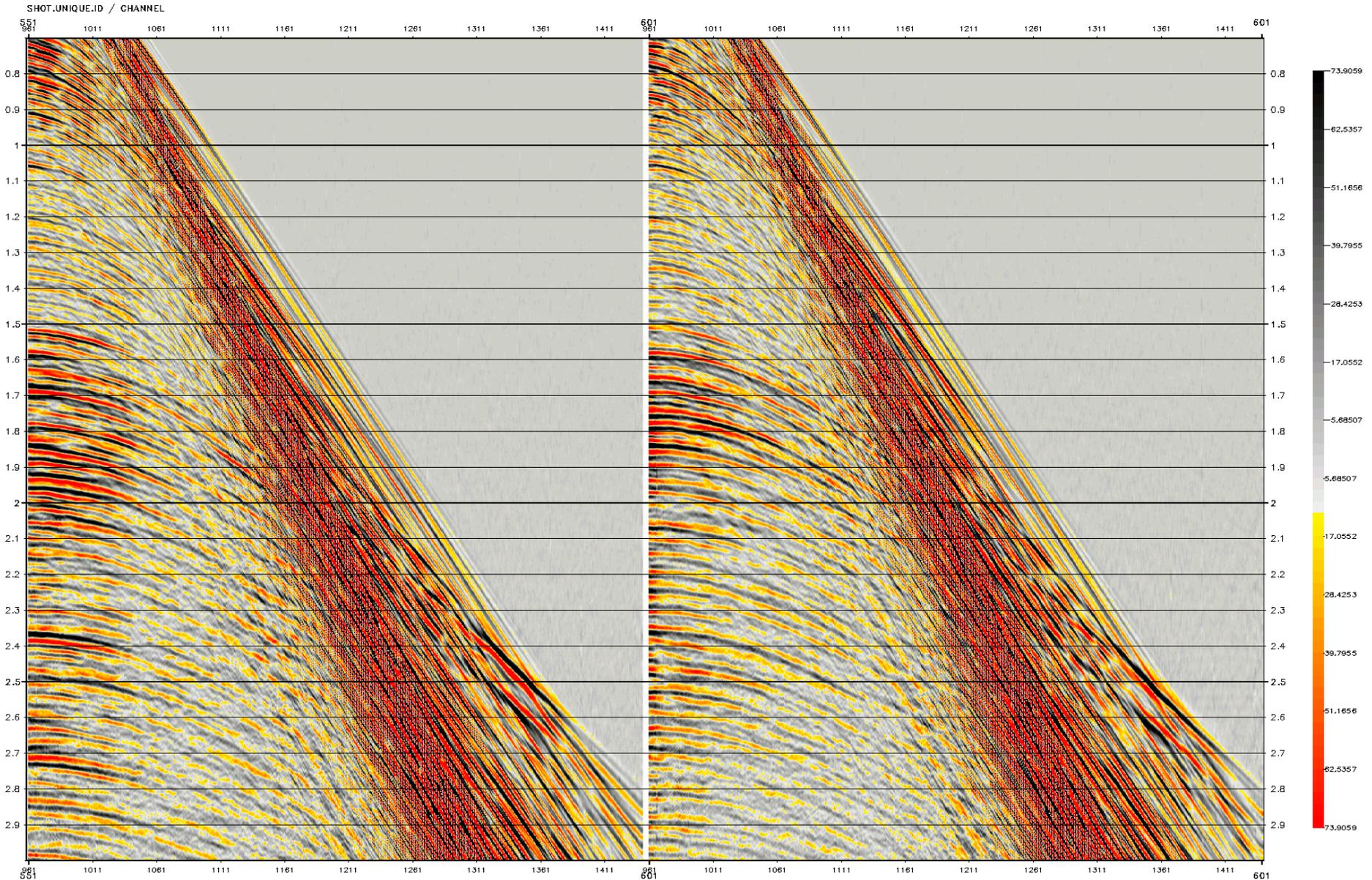- Linear noise attenuation test

Test Summary

- An additional test has been conducted to remove the aliasing noise left behind after linear noise attenuation.

- Tests description:
    - Test 1: Linear noise attenuation using velocity 2500m/s (same as posted on 19 Feb)

    - Test 2: Linear noise attenuation followed by fxedit, as described below
        - a. Input from Linear noise attenuation using velocity 2500m/s (test 1)
        - b. NMO
        - c. High frequency noise attenuation (fxedit) using threshold 4.0
        - d. Reverse NMO

Shots are displayed in following manner:

1. Shots without linear noise attenuation
2. Shots with linear noise attenuation (velocity 2500m/s) – Test 1
3. Shots with linear noise attenuation (velocity 2500m/s) followed by fxedit - Test 2
4. Difference display between test 1 and test 2
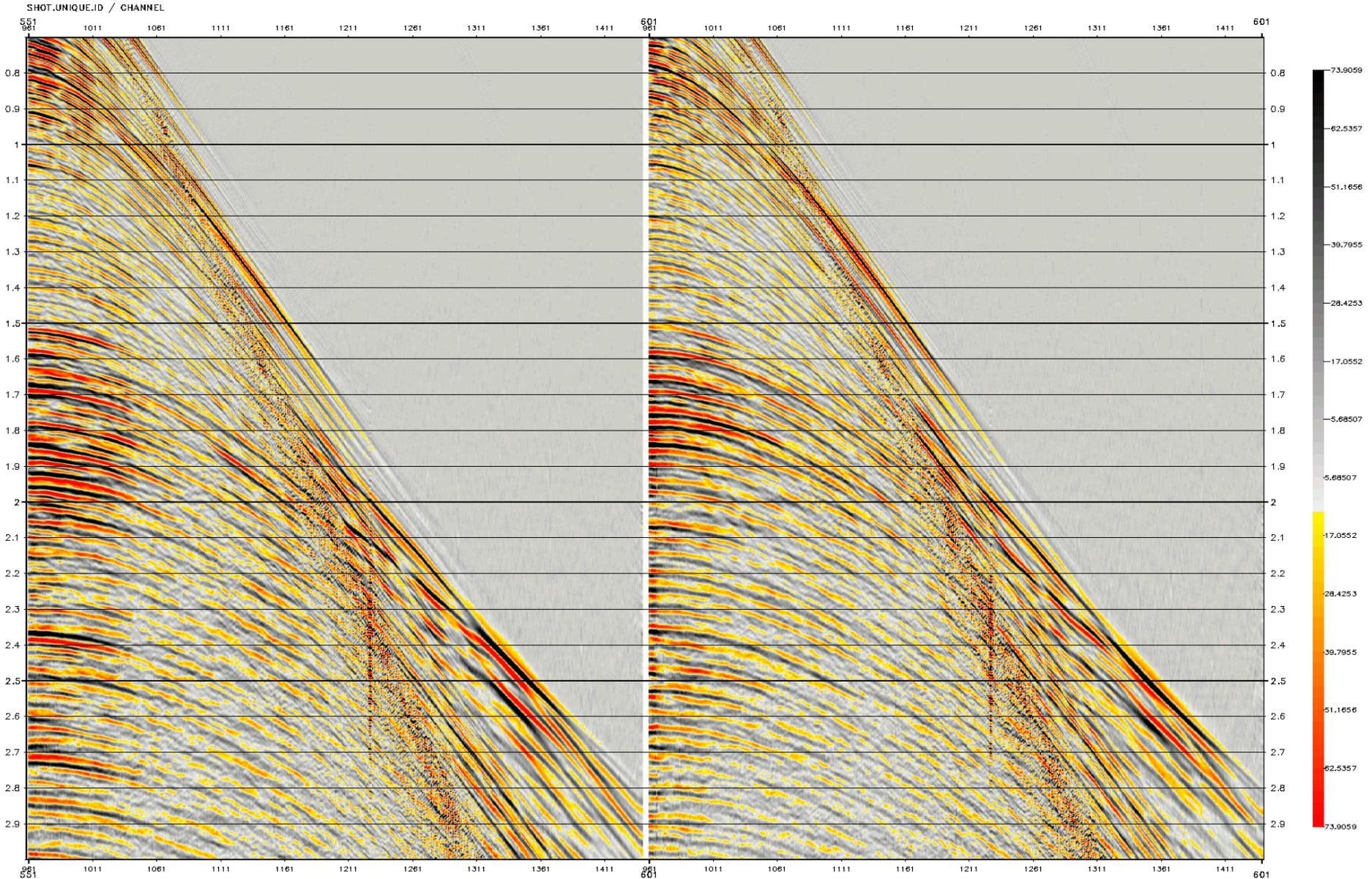5. Two test lines 1378P1002 and 1198P1049 are displayed

CGGVERITAS

Sail line 1378: Shots before linear noise attenuation Top view

Tango:vegas:spr224ws:s563top:1378 noxrl sht.1

Sail line 1378:Shots after linear noise attenuation (Test 1) Top view

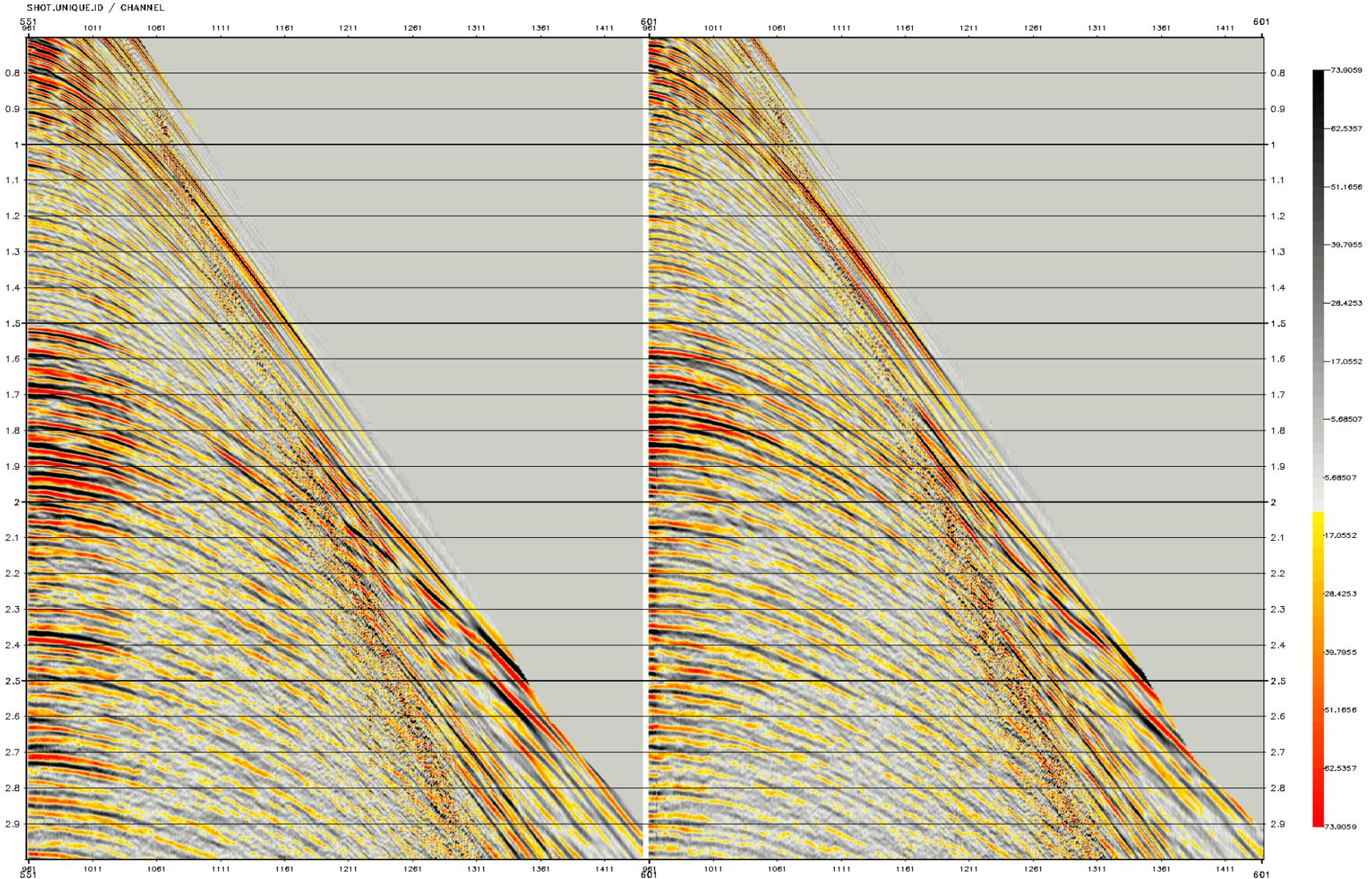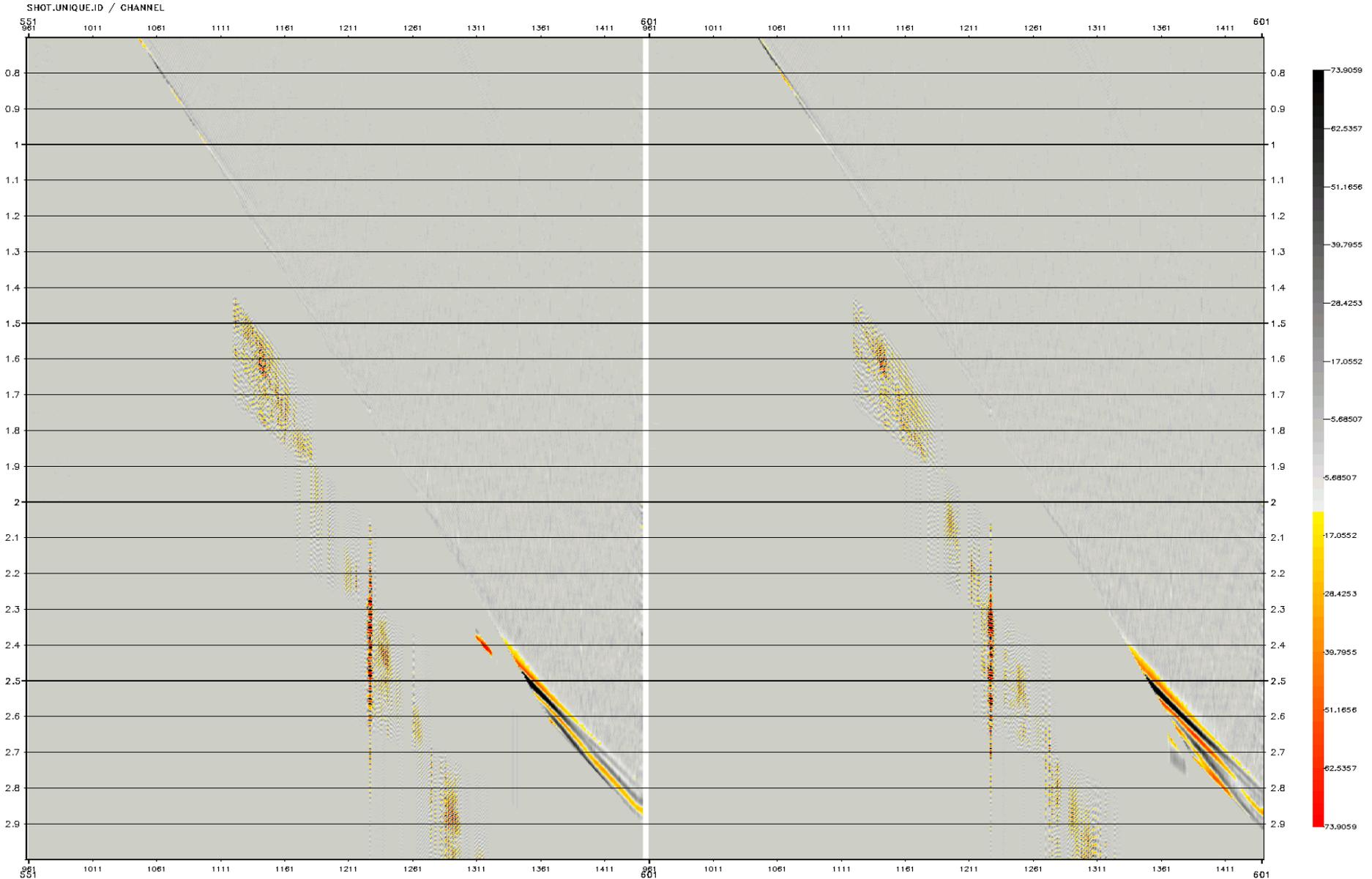# Sail line 1378:Shots after linear noise attenuation (Test 2) Top view
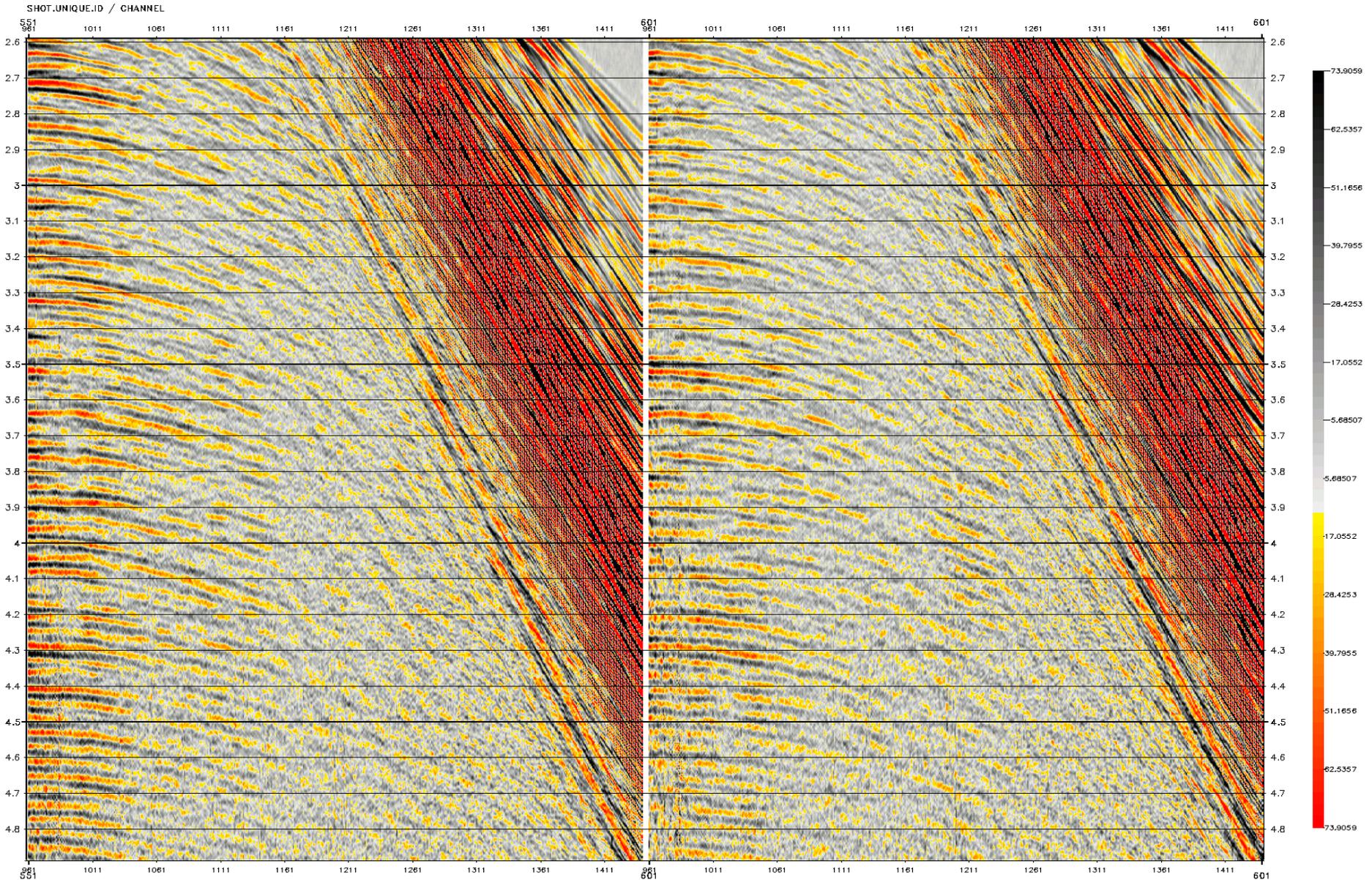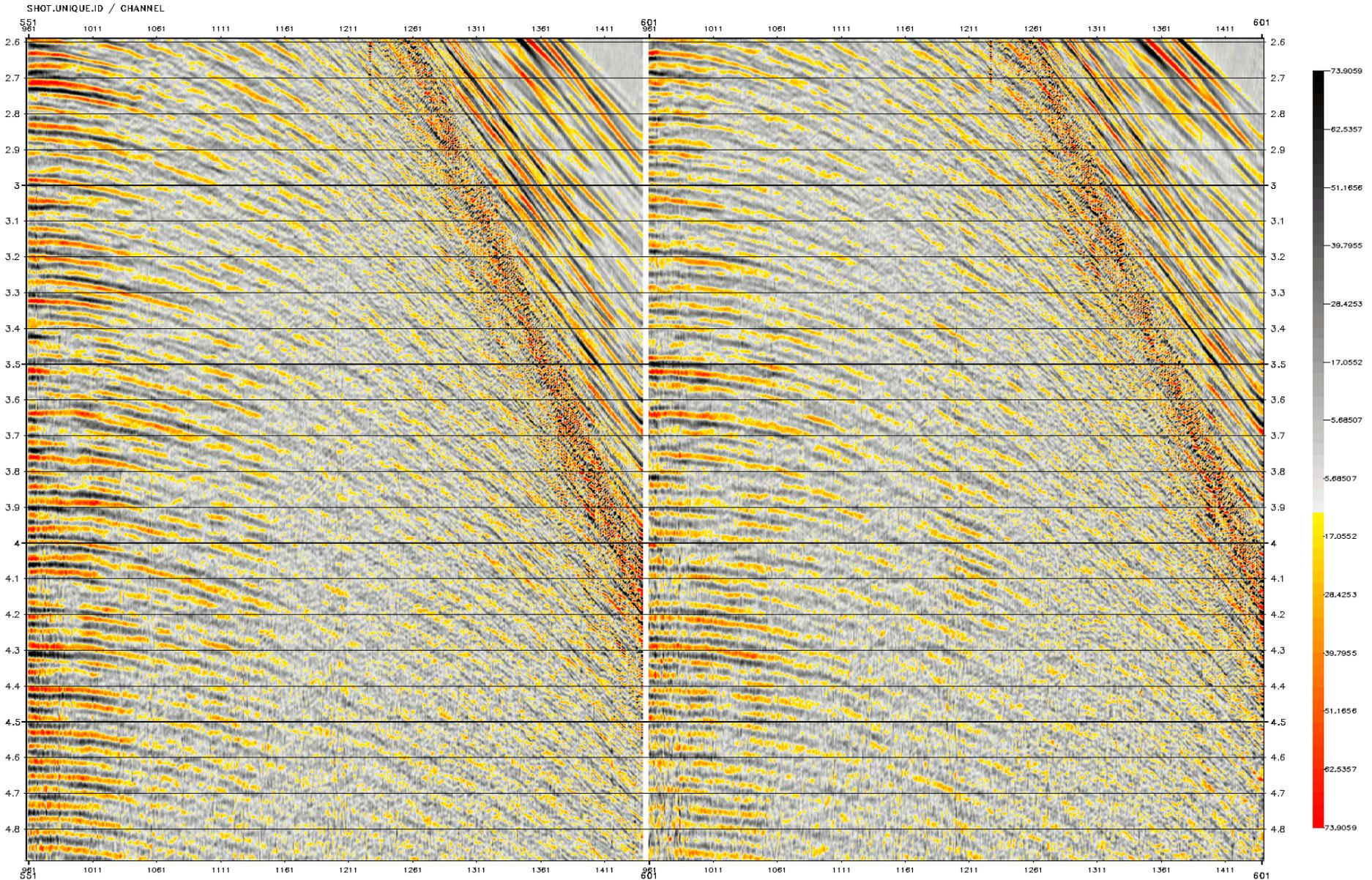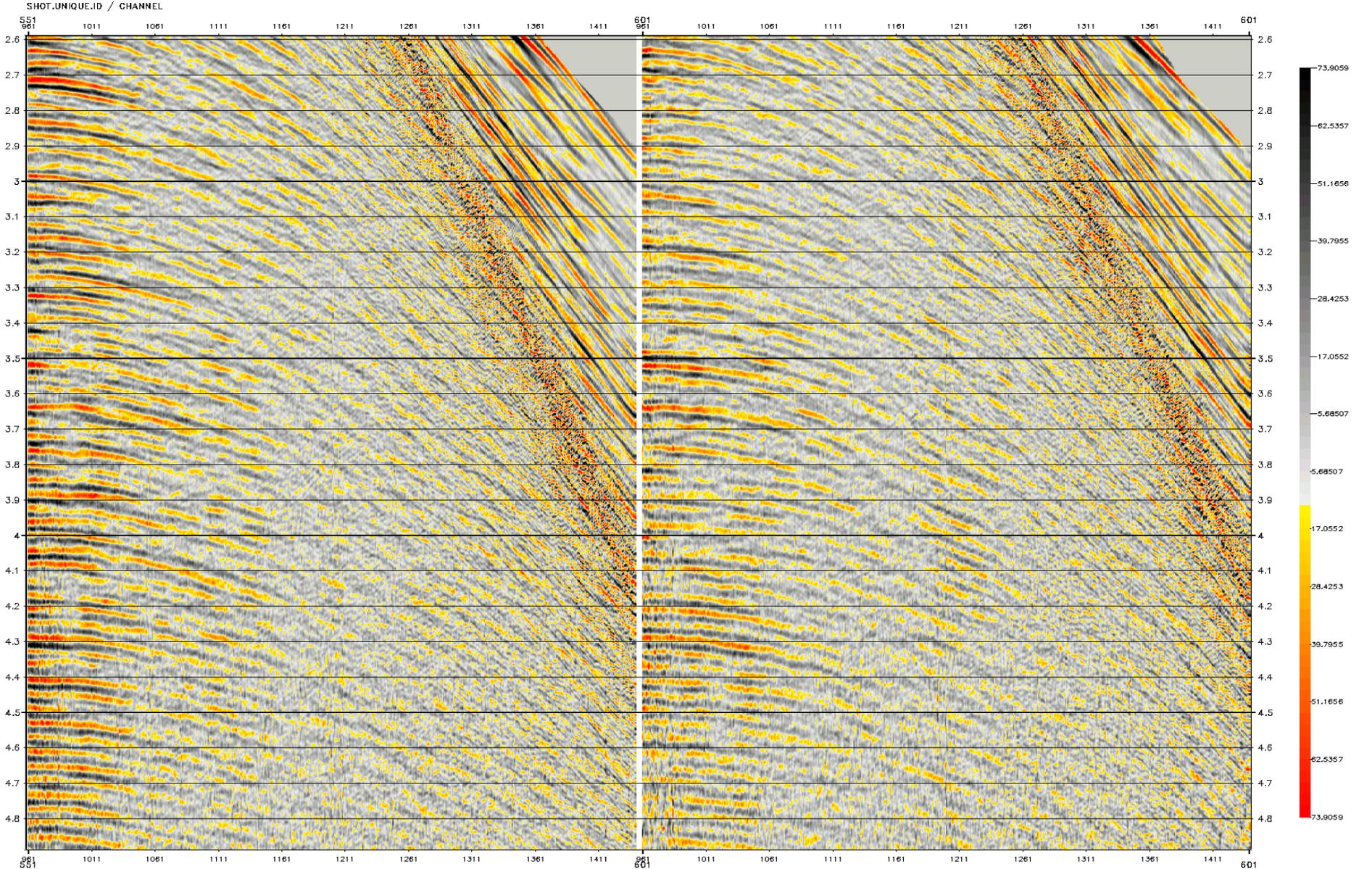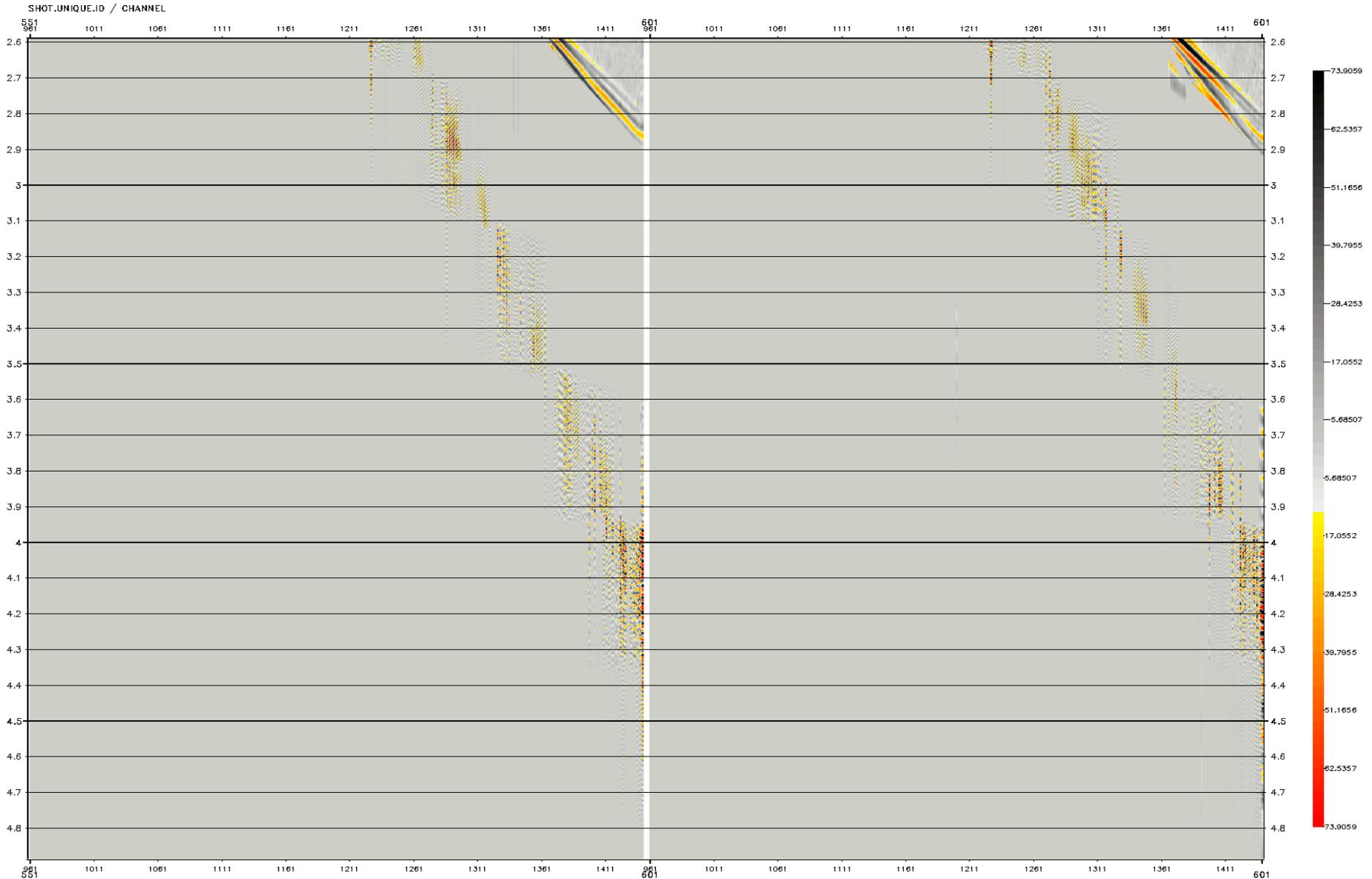
Tango:vegas:spr224ws:s563tap:1378 xrl2500 fx.1

Sail line 1378: Difference display (Test 2 – Test1) Top view

Sail line 1378: Shots before linear noise attenuation Bottom view

Tango:vegas:spr224ws:s563tap:1378 noxrl sht.1

Sail line 1378:Shots after linear noise attenuation (Test 1) Top view

Tango:vegas:spr224ws:s563lap:1378 xrl2500 sht.1

Sail line 1378:Shots after linear noise attenuation (Test 2) Top view
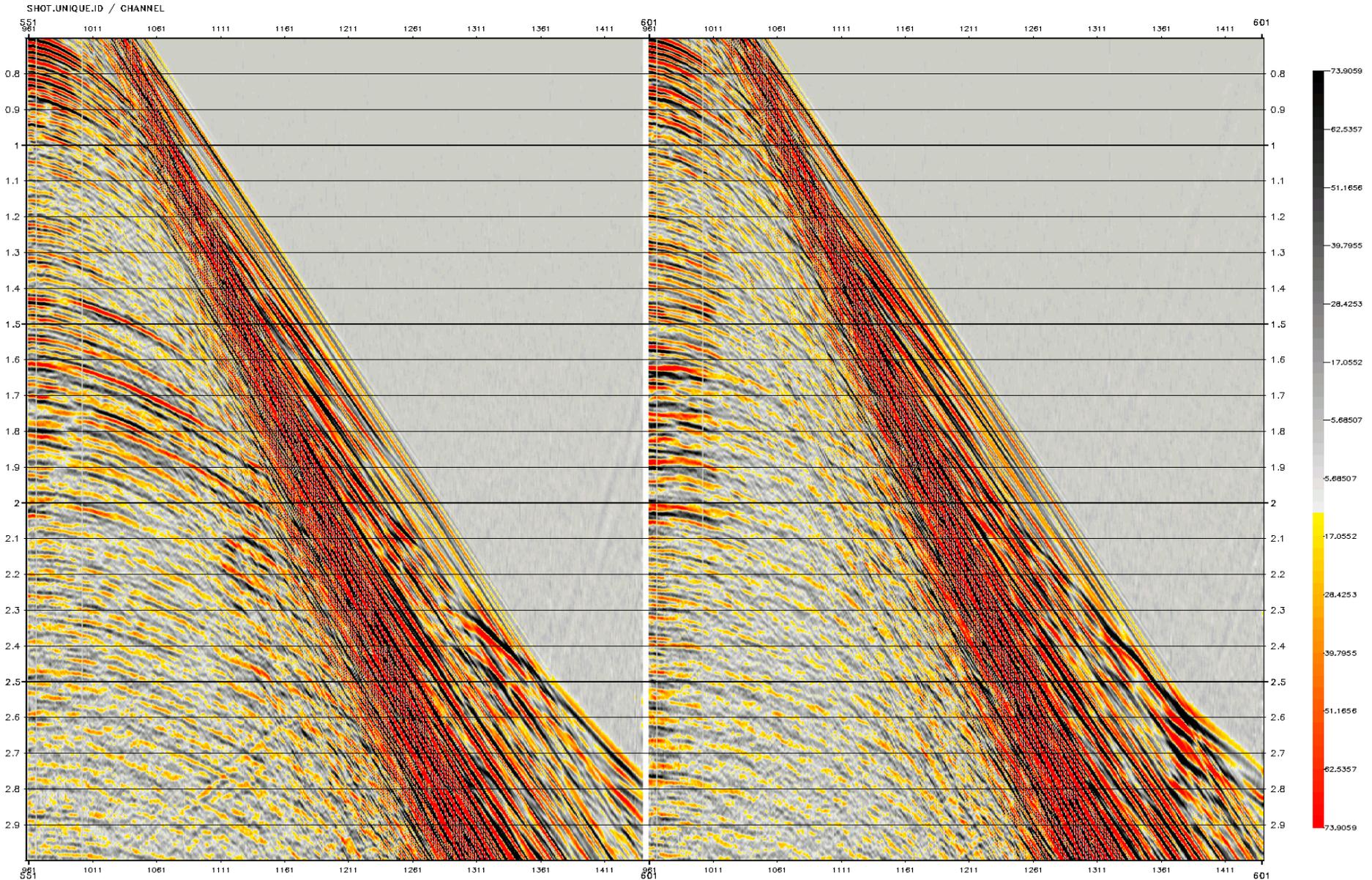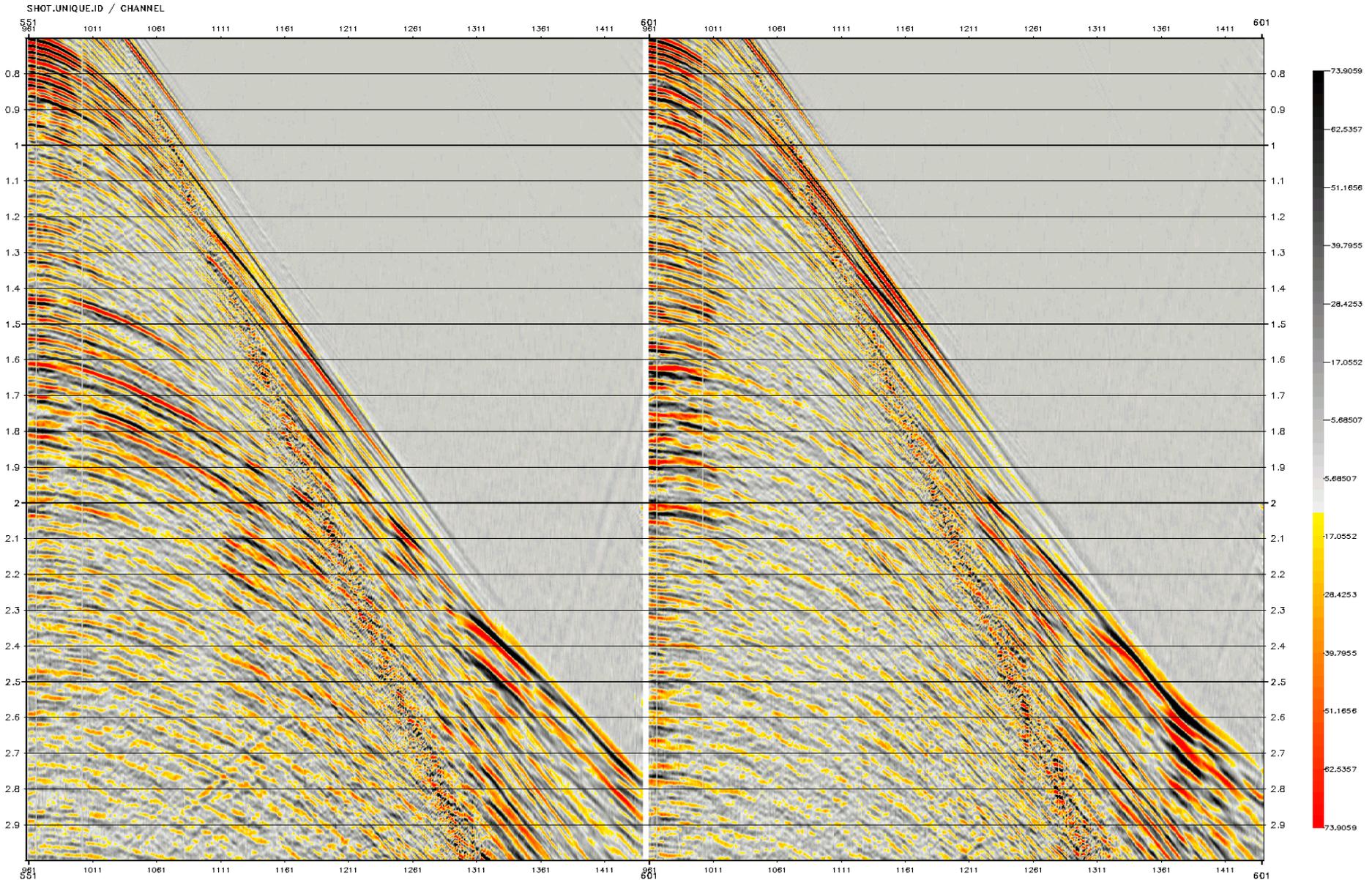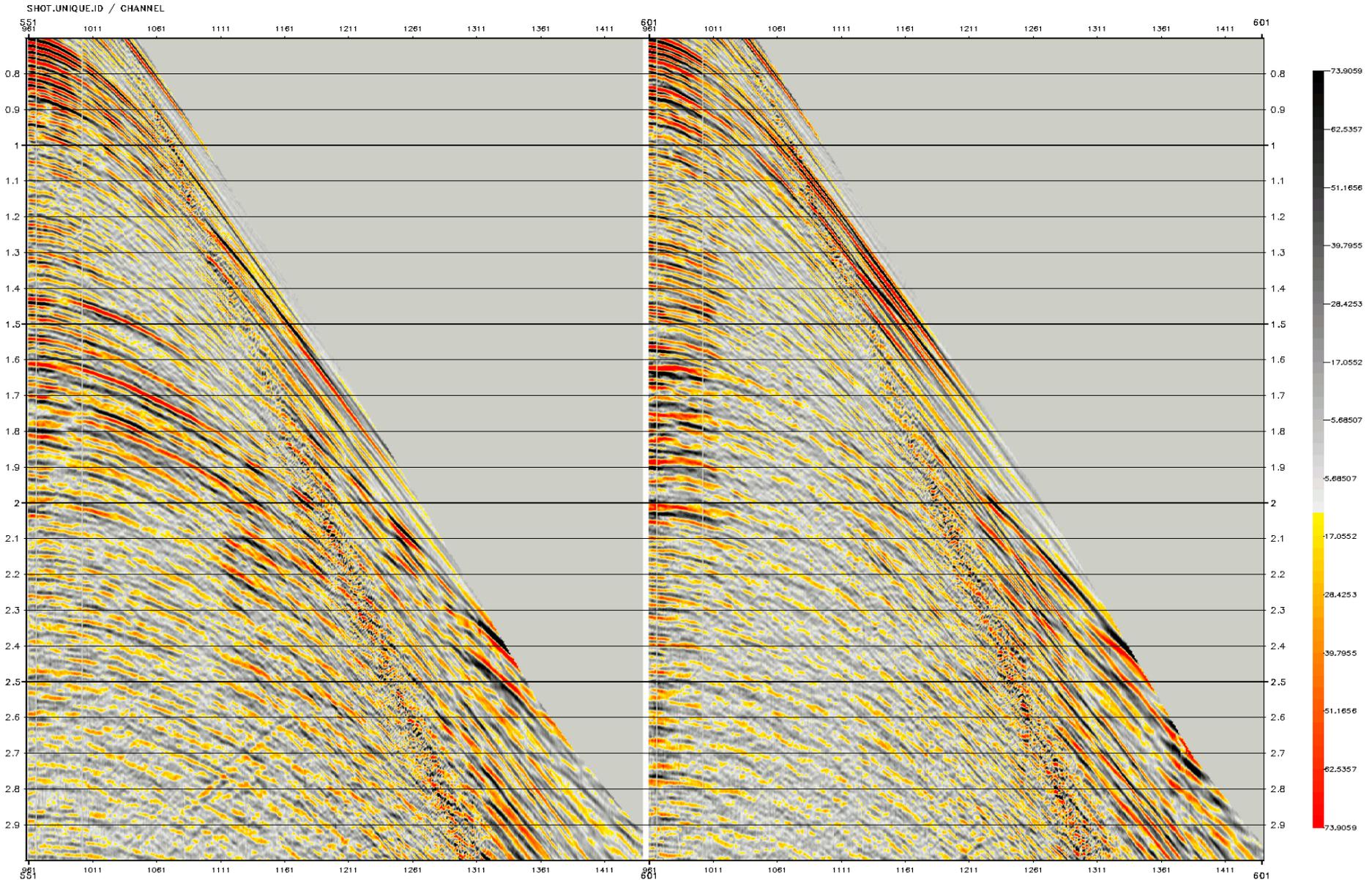

Tango:vegas:spr224ws:s563fap:1378 xrl2500 fx.1

Sail line 1378: Difference display (Test 2 – Test1) Bottom view

Sail line 1198: Shots before linear noise attenuation Top view

Sail line 1198:Shots after linear noise attenuation (Test 1) Top view

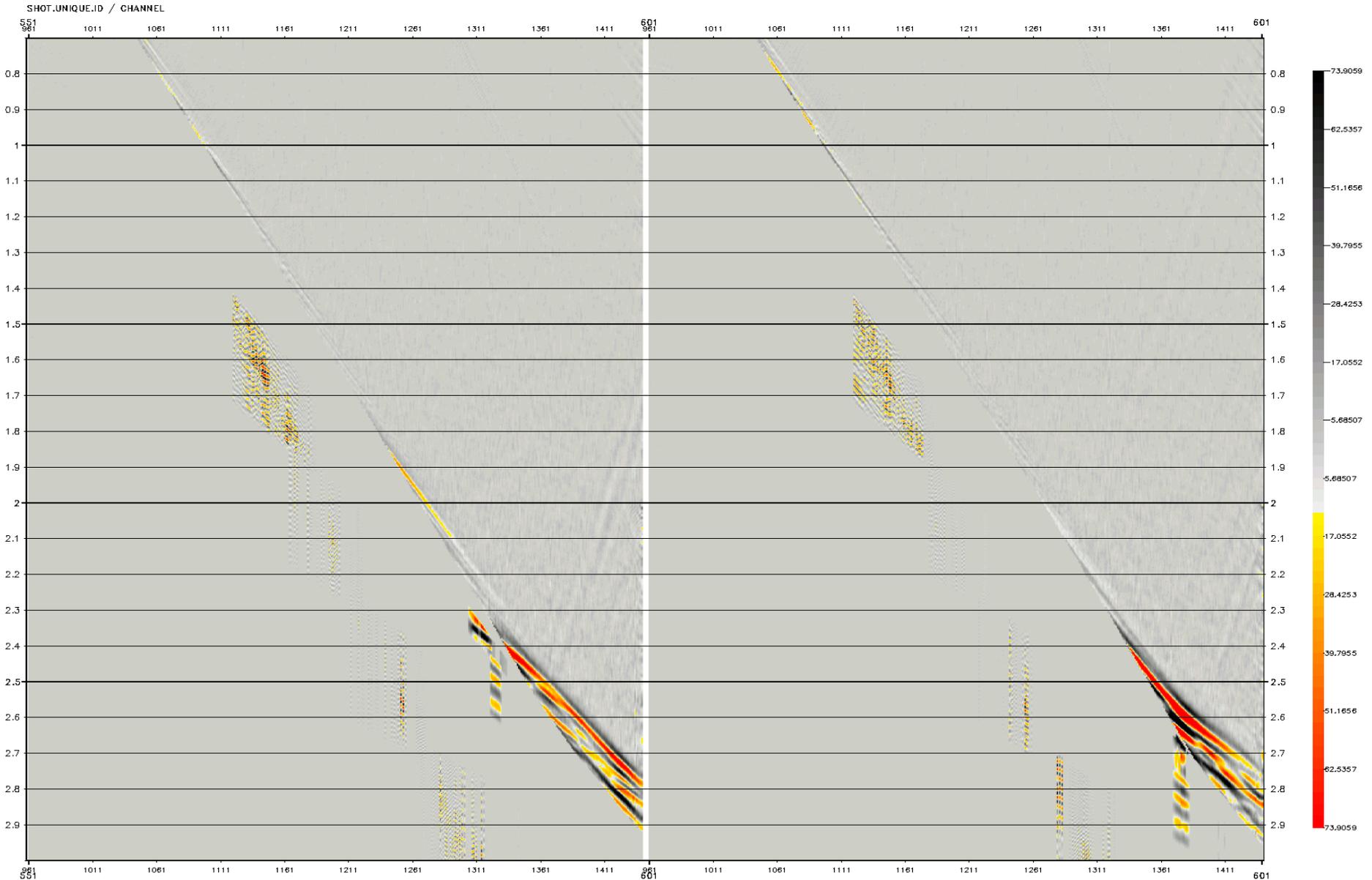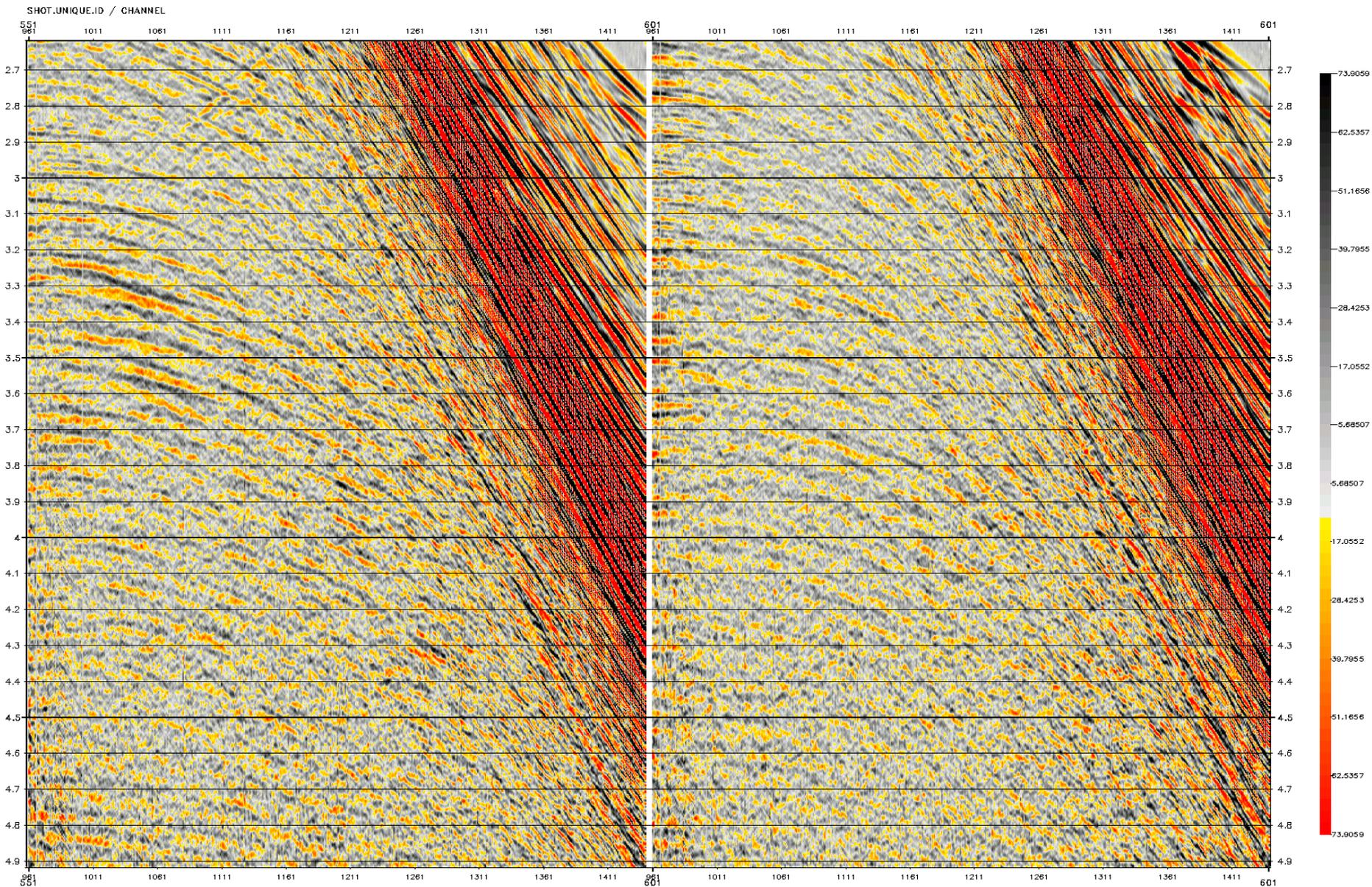# Sail line 1198: Shots after linear noise attenuation (Test 2) Top view

Tango:vegas:spr224ws:s563tap:1198 xrl2500 fx.1

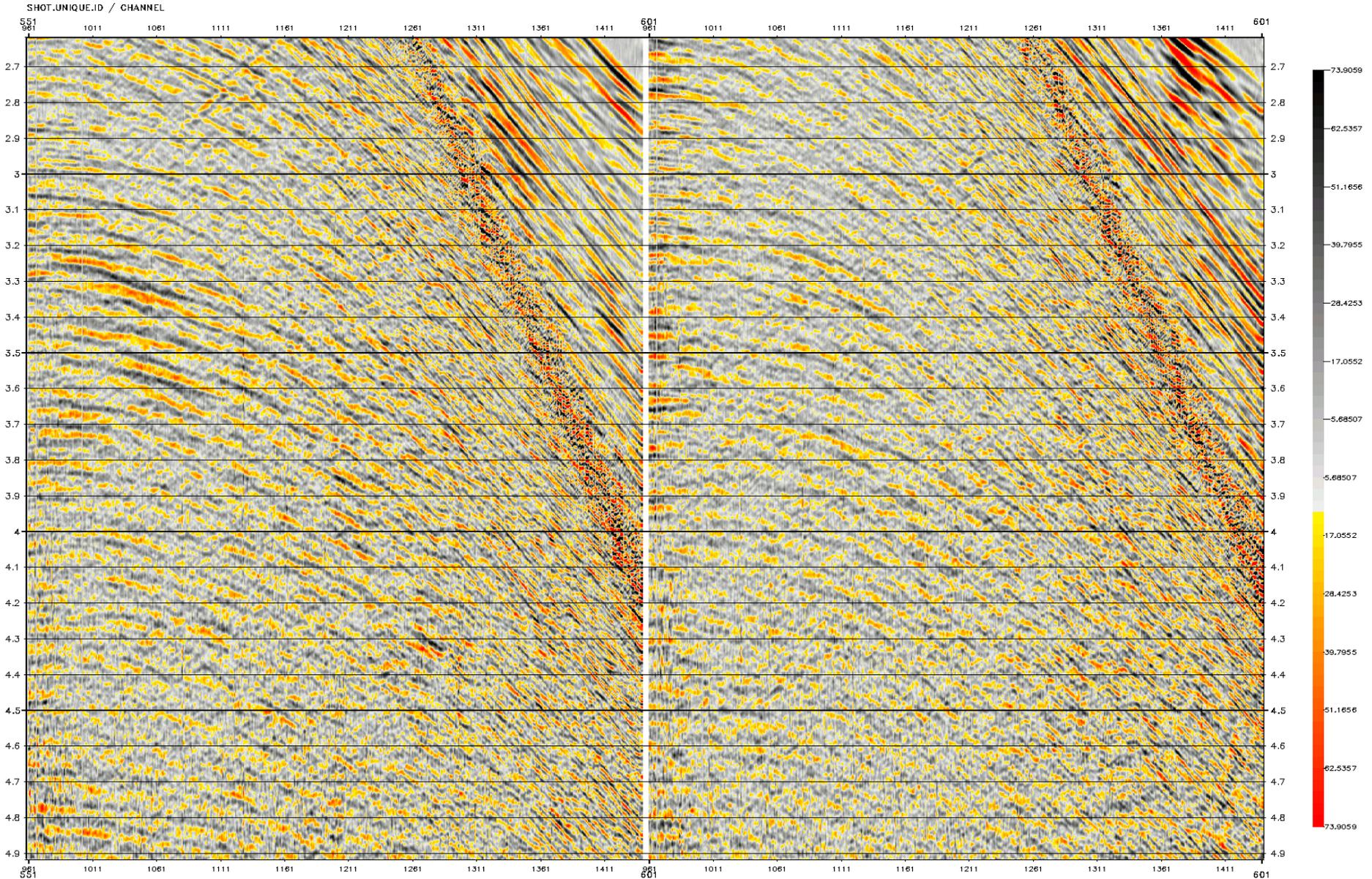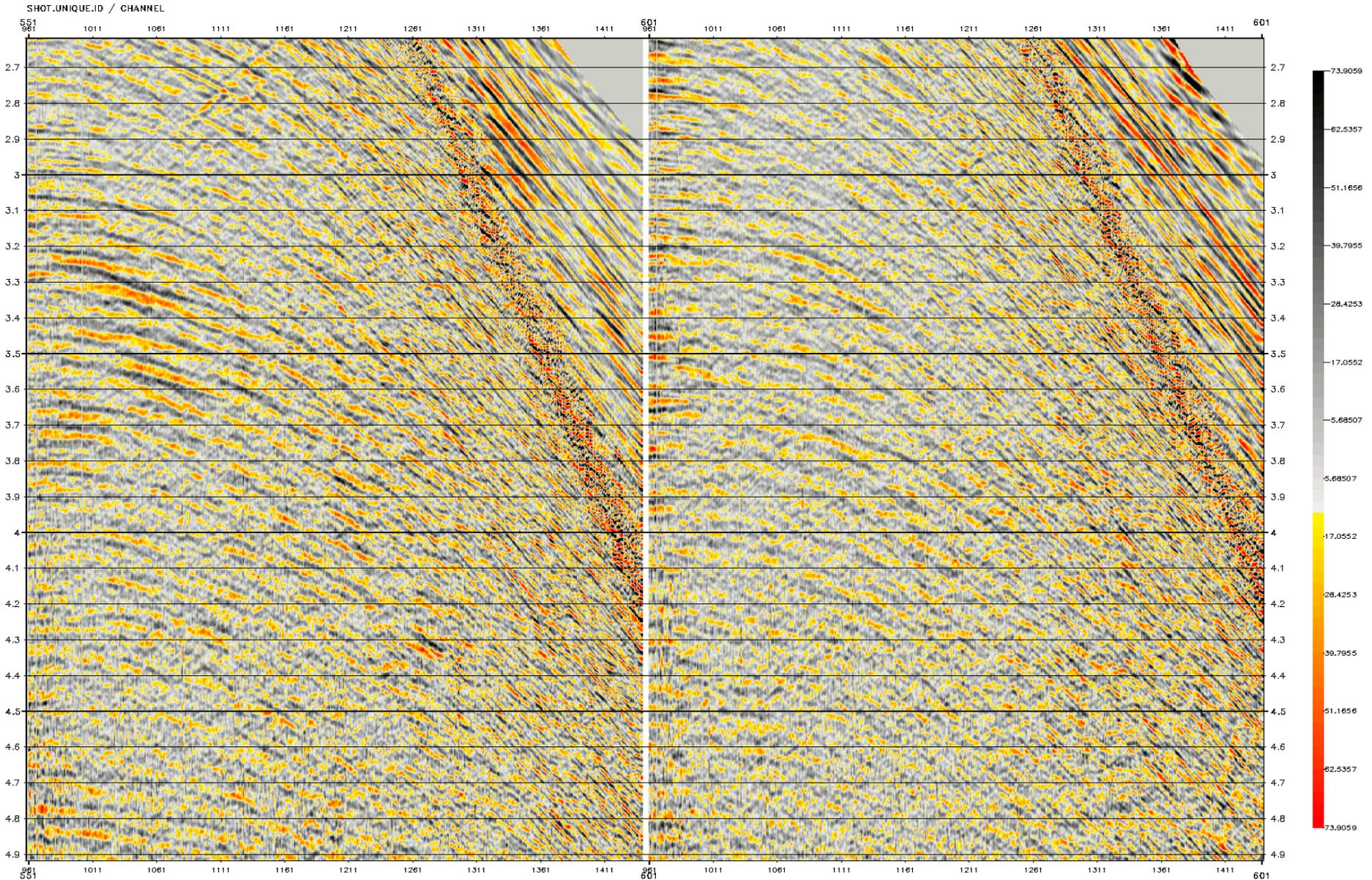# Sail line 1198: Difference display (Test 2 – Test1) Top view

Sail line 1198: Shots before linear noise attenuation Bottom view

Tango:vegas:spr224ws:s563tap:1198 noxrl sht.1

Sail line 1198:Shots after linear noise attenuation (Test 1) Bottom view

Sail line 1198:Shots after linear noise attenuation (Test 2) Bottom view

Sail line 1198: Difference display (Test 2 – Test1) Bottom view

1198 xrl2500 fx−1198 xrl2500 sht