

Tap Oil T/47P 3D PSTM



High resolution linear noise attenuation

Sail line 1198P1049

Shots and stack display

Processing Flow

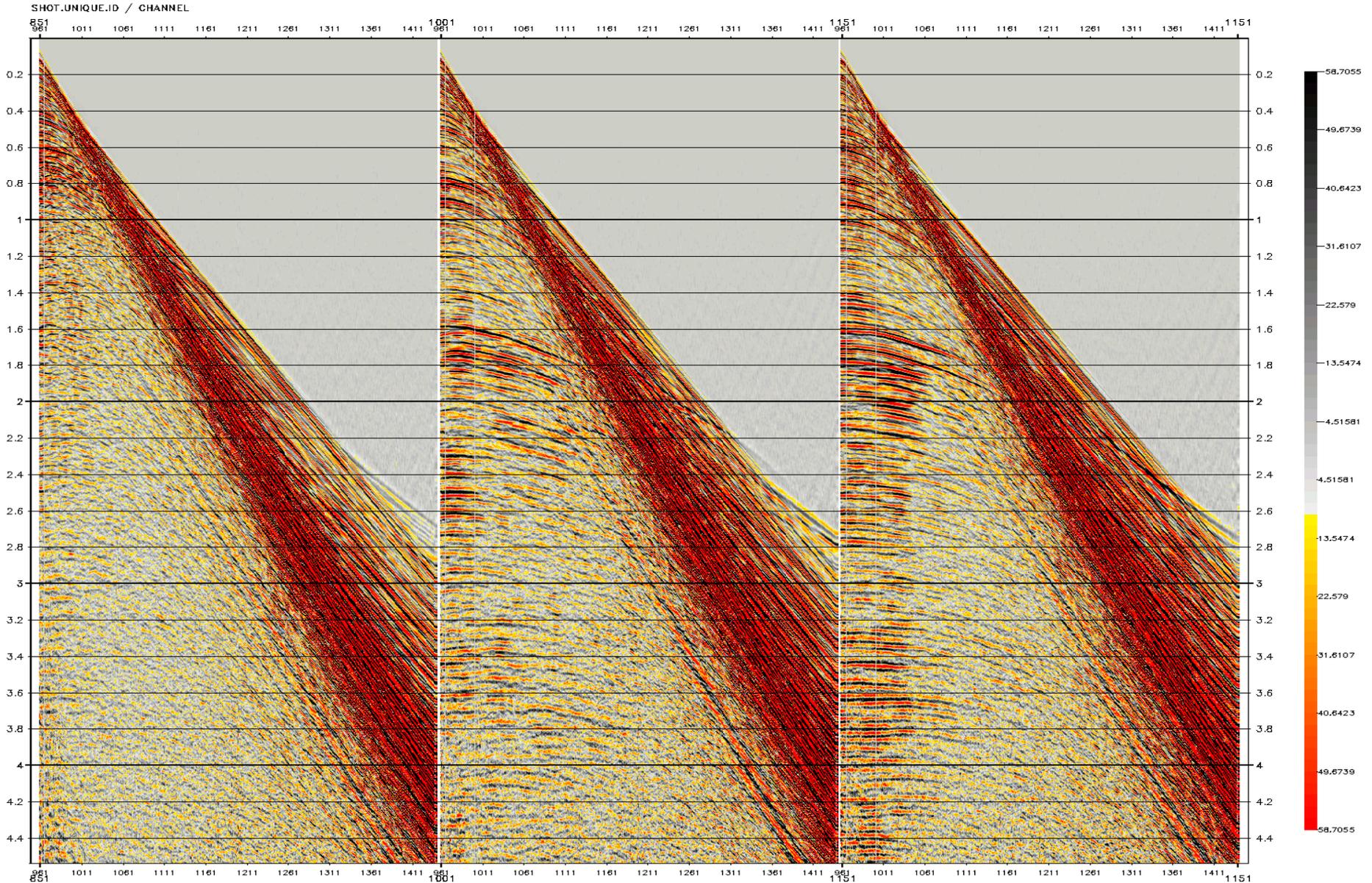
- Reformat
- Navigation merge
- Trace edit
- Low cut filter 3Hz 18dB
- Deterministic de-phase filter to convert data to zero phase using far field signature
- Resample to 4ms using AA filter 110Hz 96dB
- System delay correction
- Spherical divergence correction $V*V*T$ using regional velocity
- Swell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

Test Summary

- Following velocities have been tested
 - 1. 2250m/s
 - 2. 2500m/s
 - 3. 2750ms
- Other recommended parameters:
 - Frequency range: 3 to 125 Hz
 - Start time: WBT+ 500ms
 - Data dips: -1600 to 1200

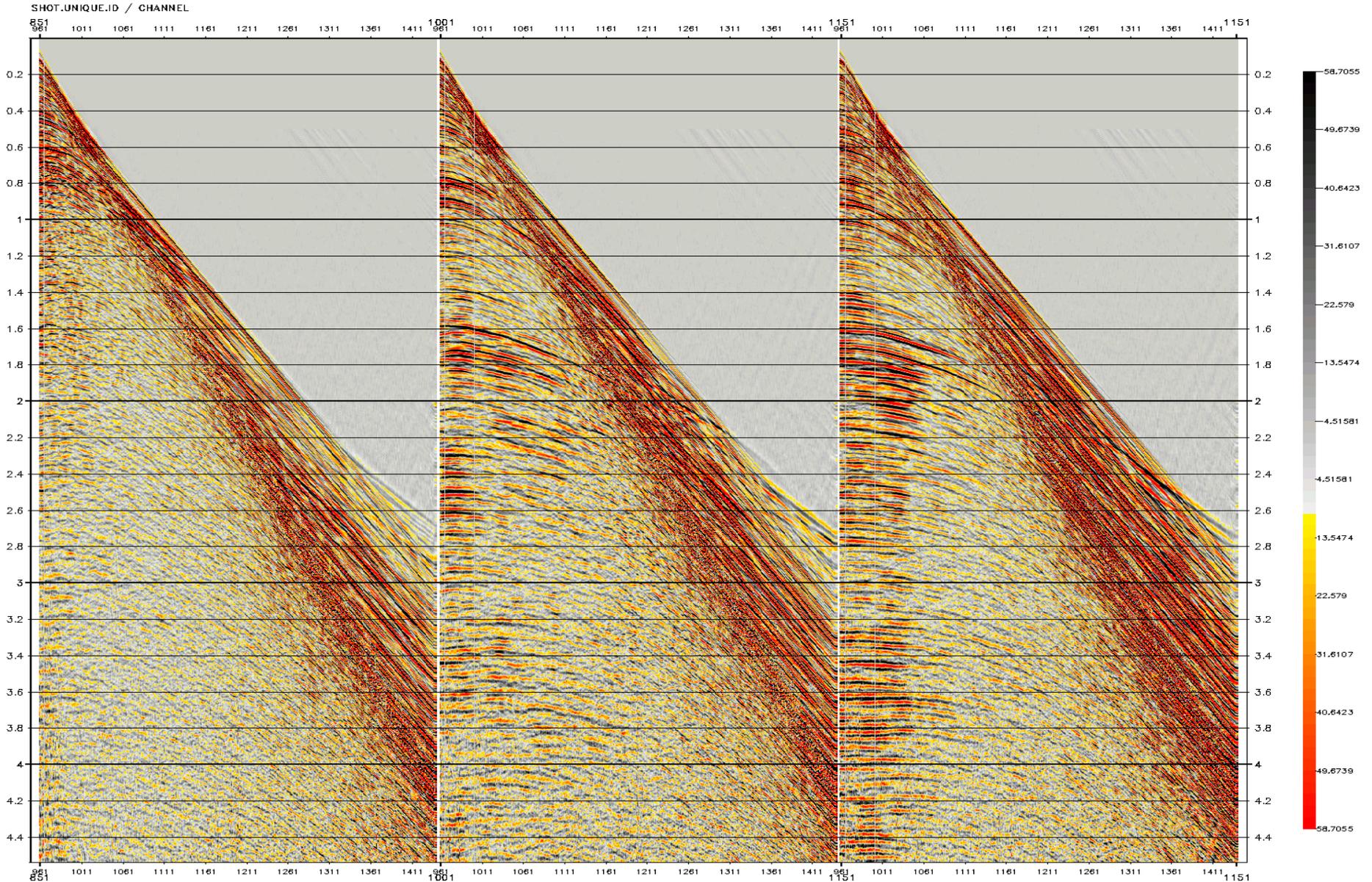
Shots **before** linear noise attenuation

Tango:vegas:spr224ws:s563tap:1198 noxrl sh1.1



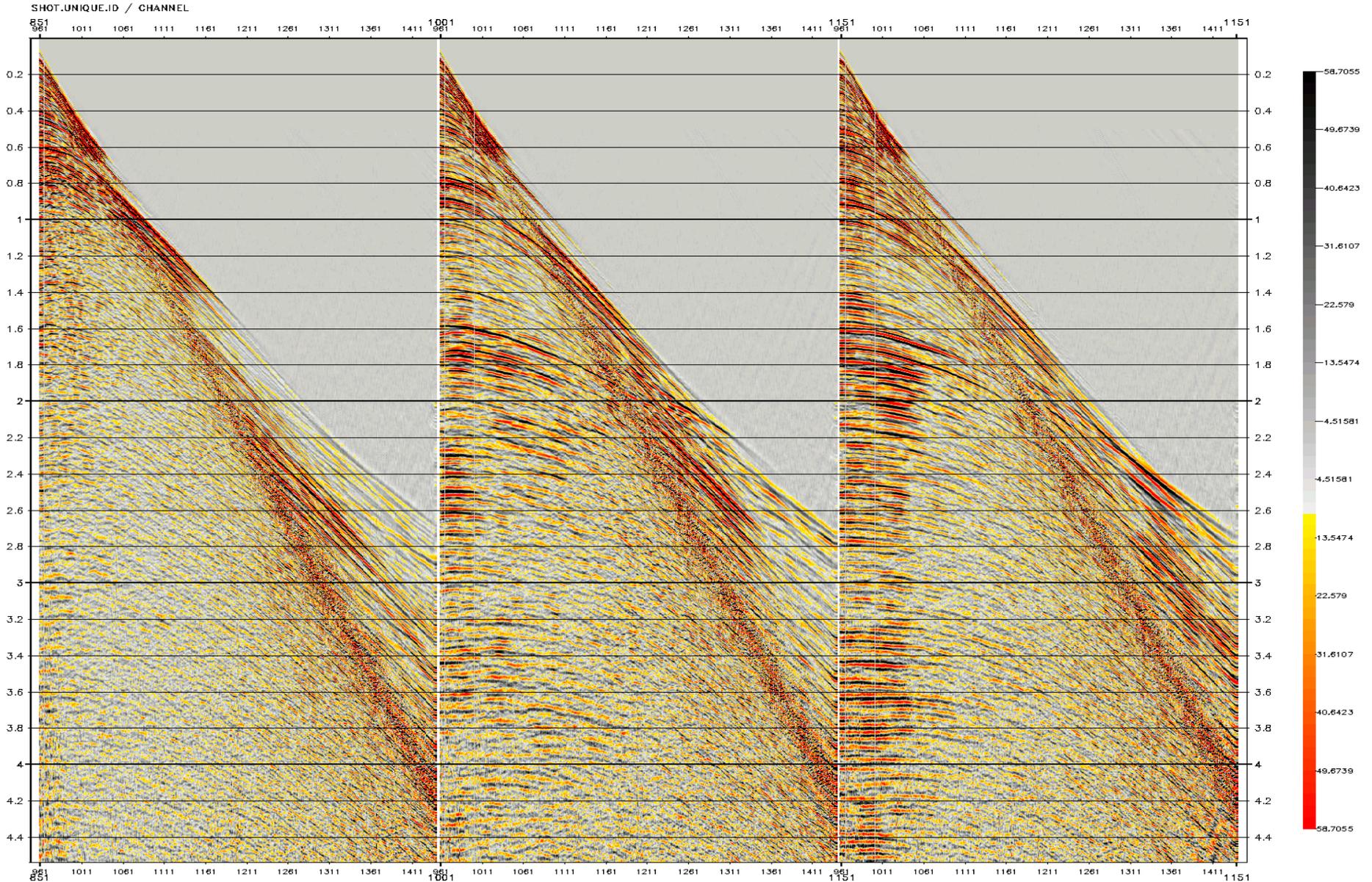
Shots **after** linear noise attenuation – Velocity 2250m/s

Tango:vegas:spr224ws:s563tap:1198 xrl2250 sht.1



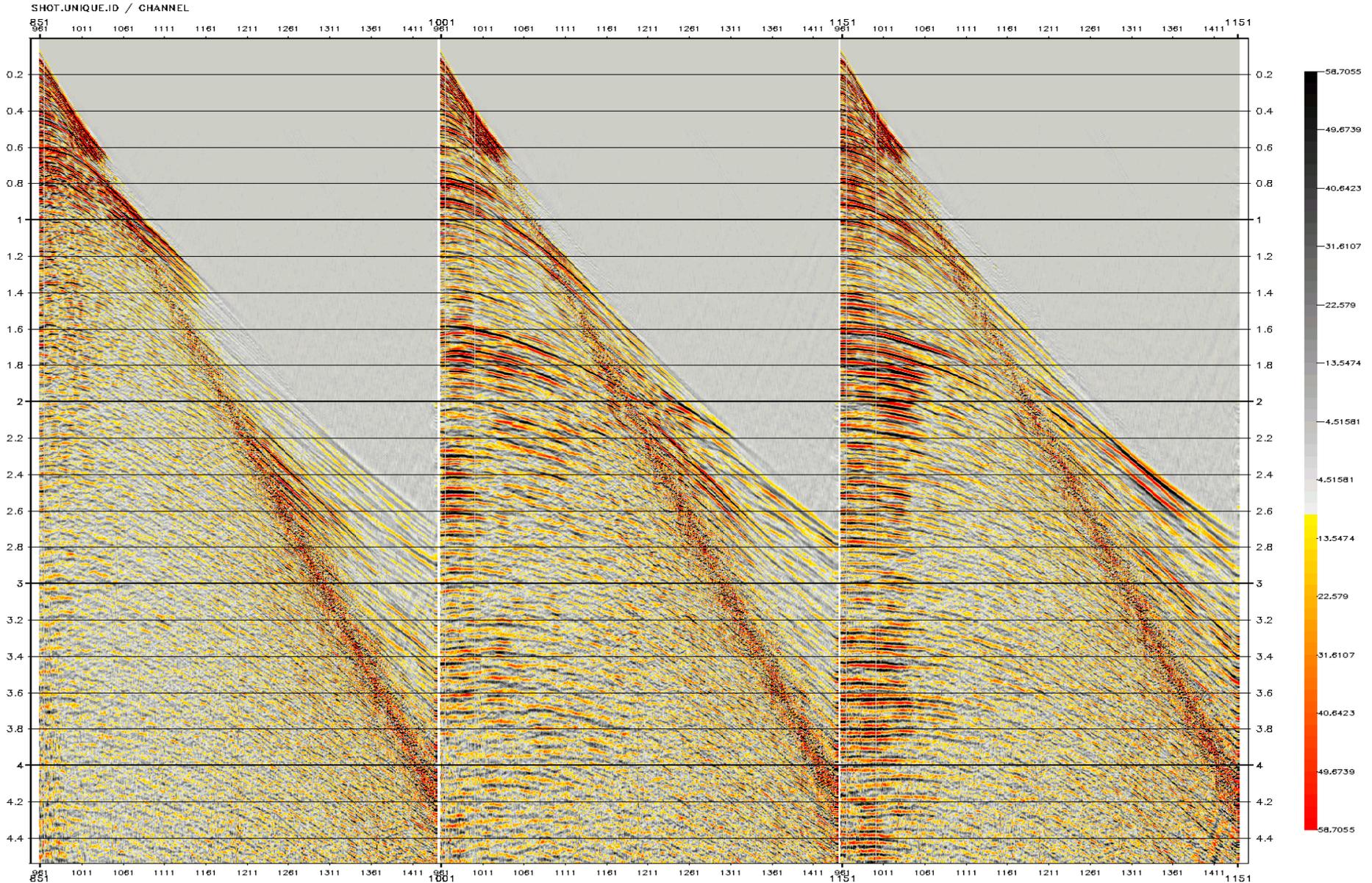
Shots **after** linear noise attenuation – Velocity 2500m/s

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



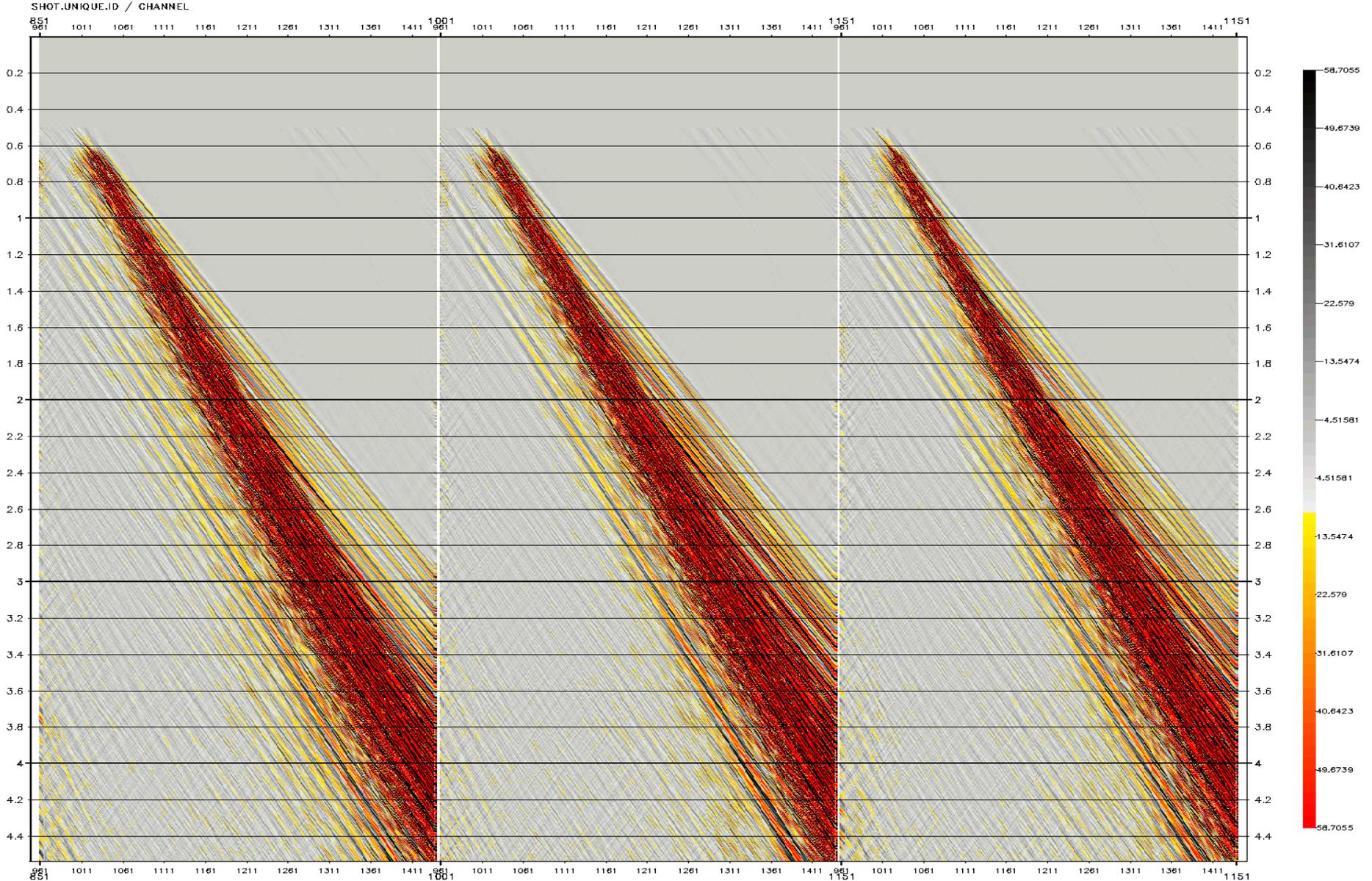
Shots **after** linear noise attenuation – Velocity 2750m/s

Tango:vegas:spr224ws:s563tap:1198 xrl2750 sht.1



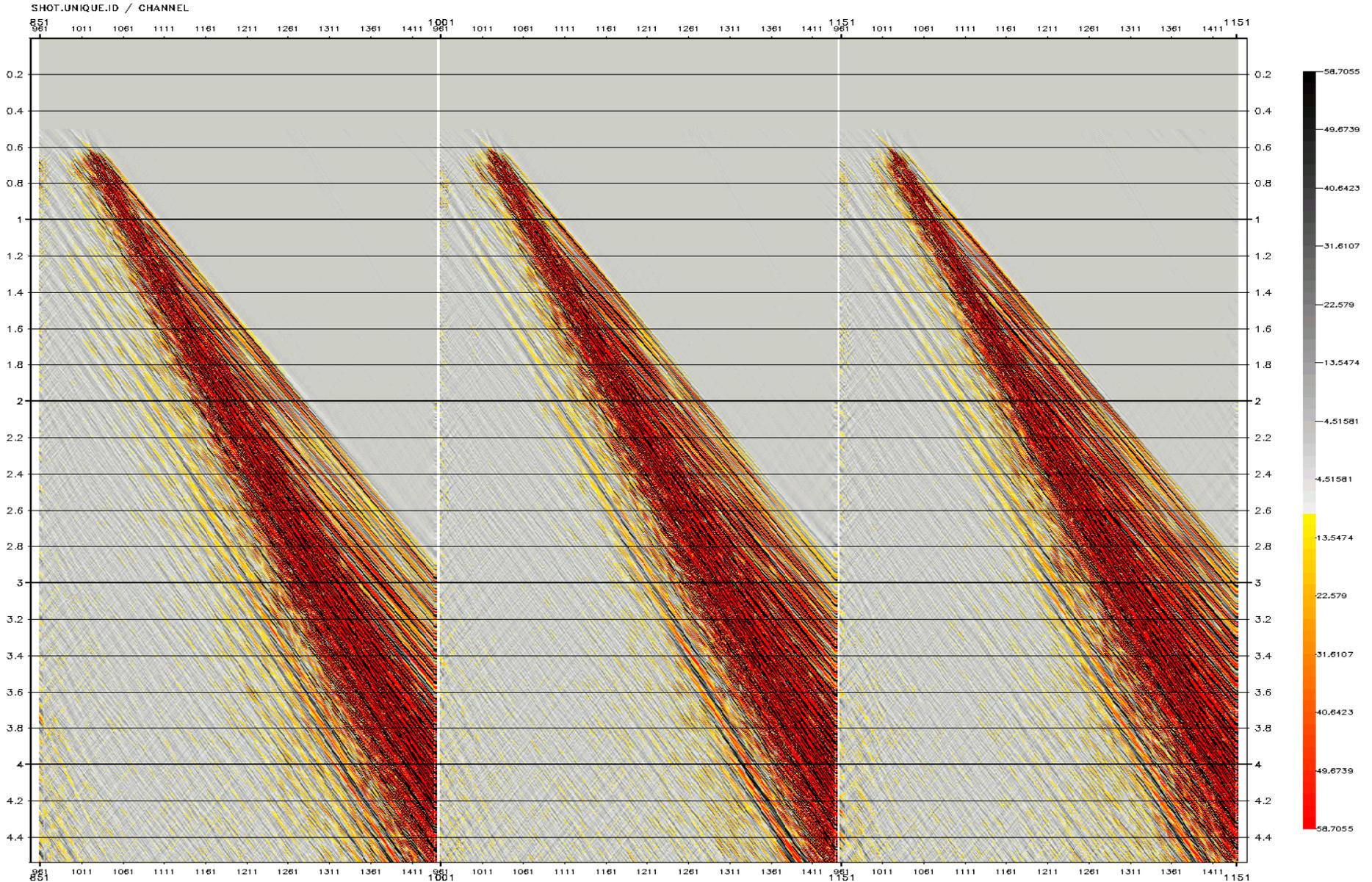
Shots: Difference display – Velocity 2250m/s

1198 noxrl sh1-1198 xrl2250 sh1



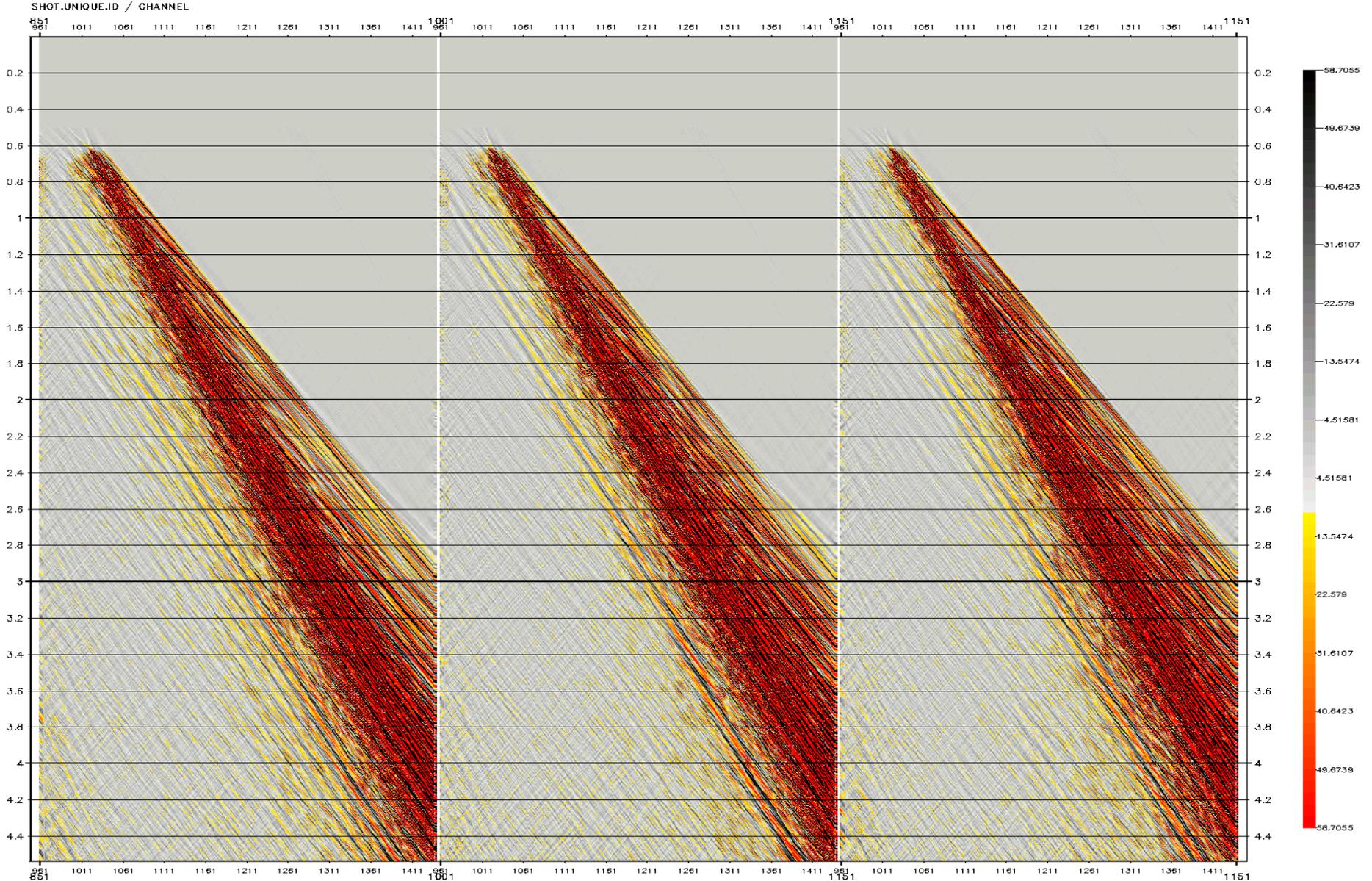
Shots: Difference display – Velocity 2500m/s

1198 noxr1 sh1-1198 xrl2500 sh1



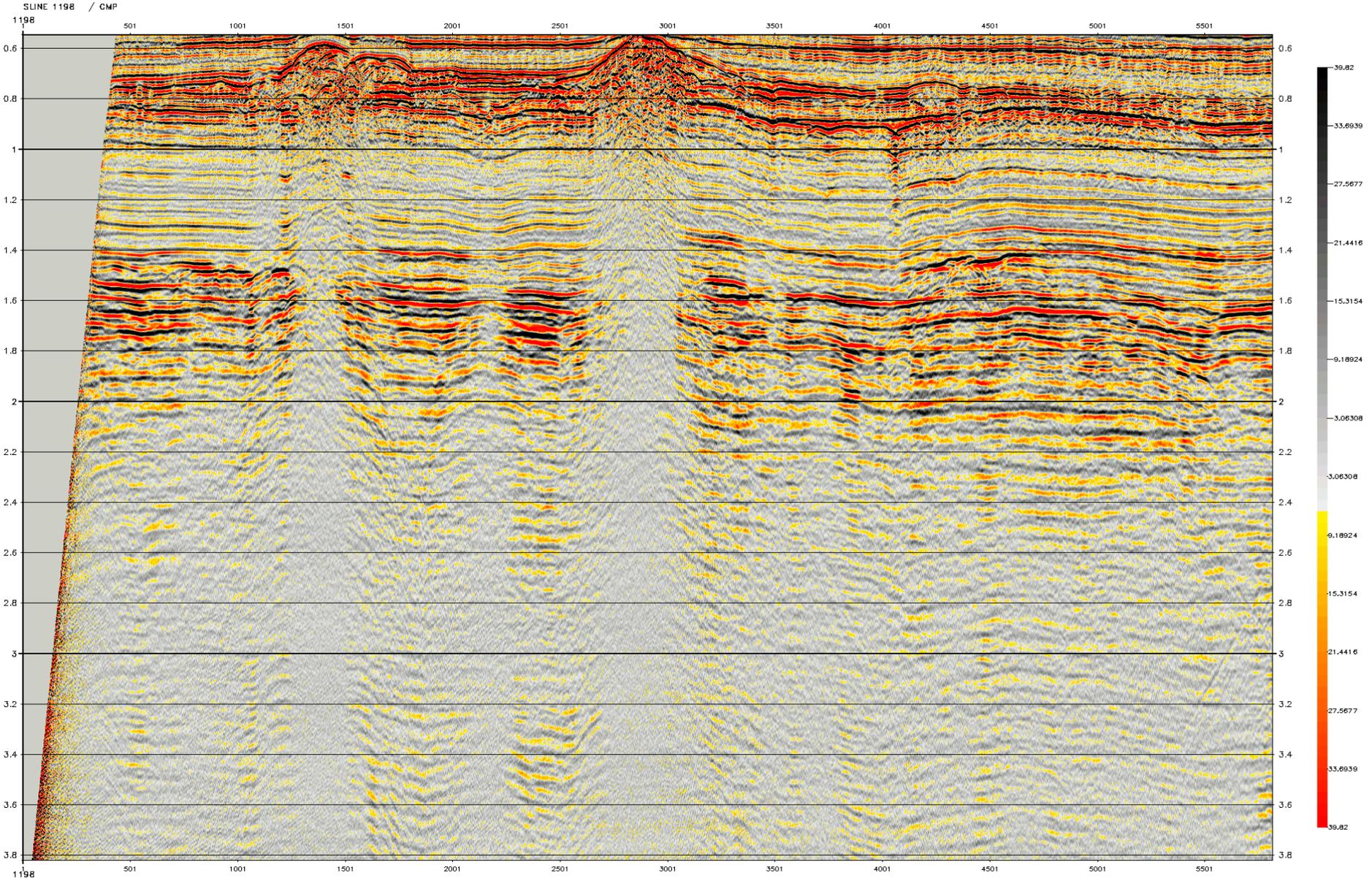
Shots: Difference display – Velocity 2750m/s

1198 noxrl sh1-1198 xrl2750 sh1



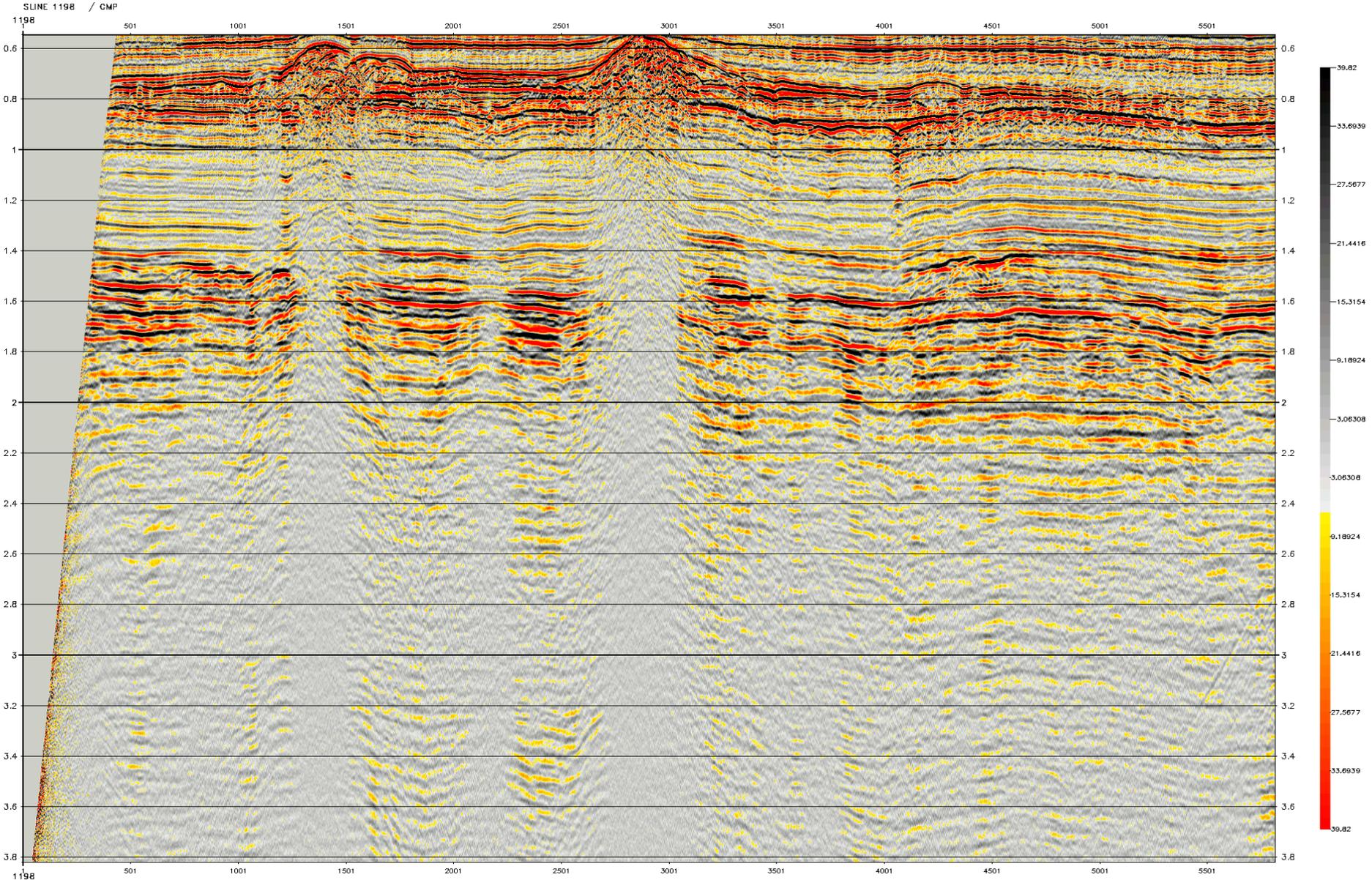
Stack before linear noise attenuation

Tango:vegas:spr224ws:s563lap:1198 noxrl stk.1



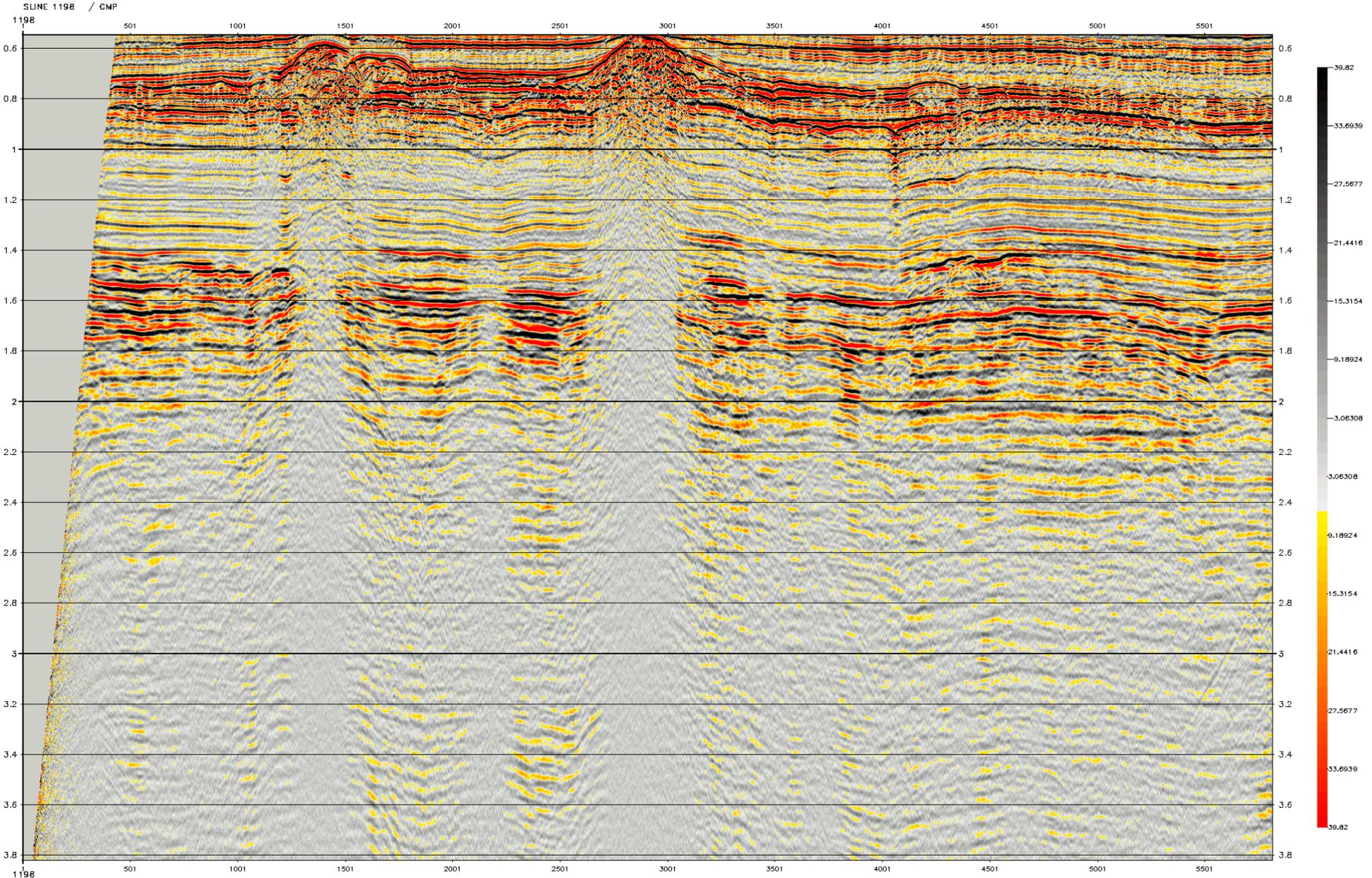
Stack after linear noise attenuation – Velocity 2250m/s

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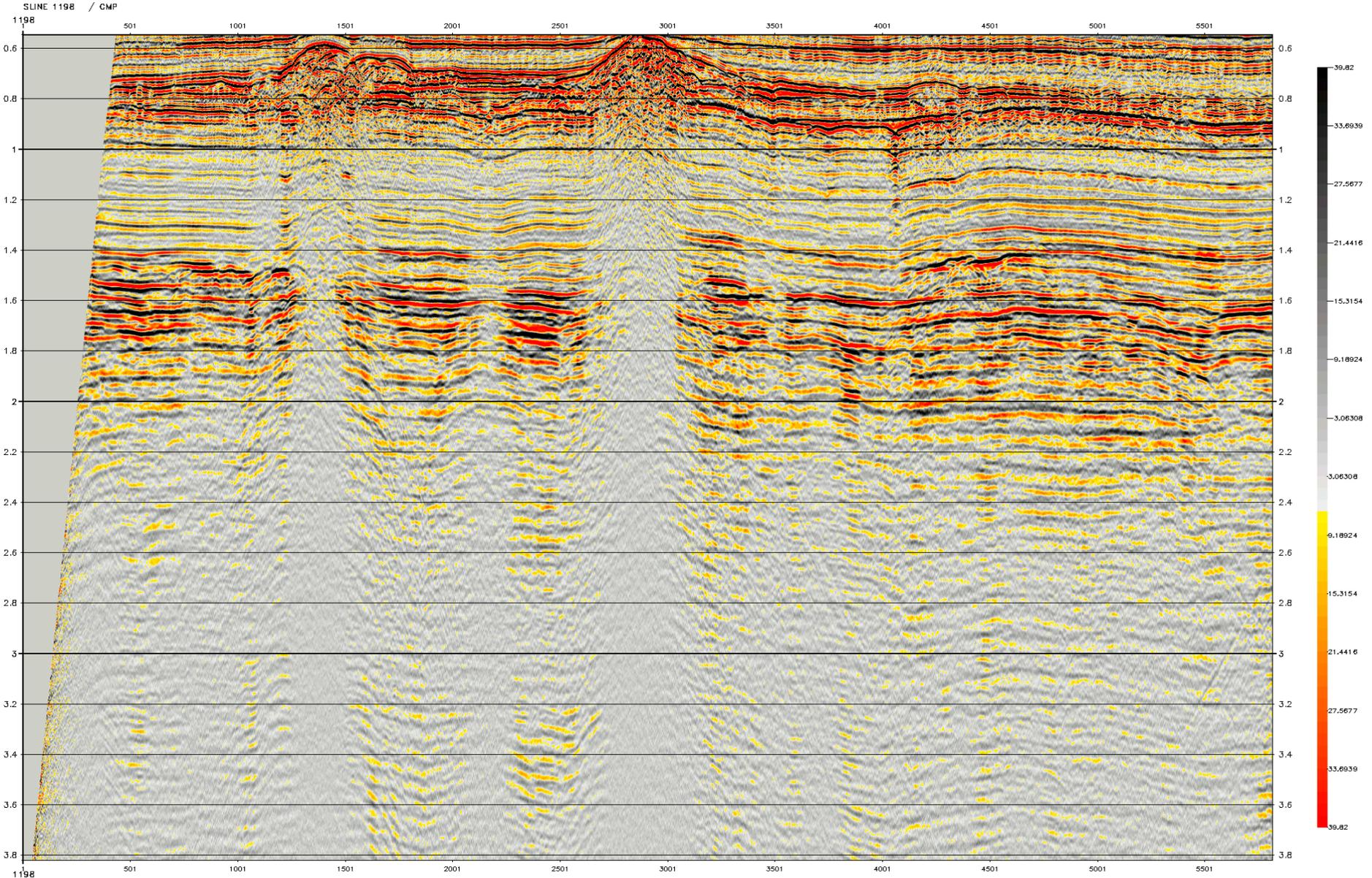
Stack after linear noise attenuation – Velocity 2500m/s

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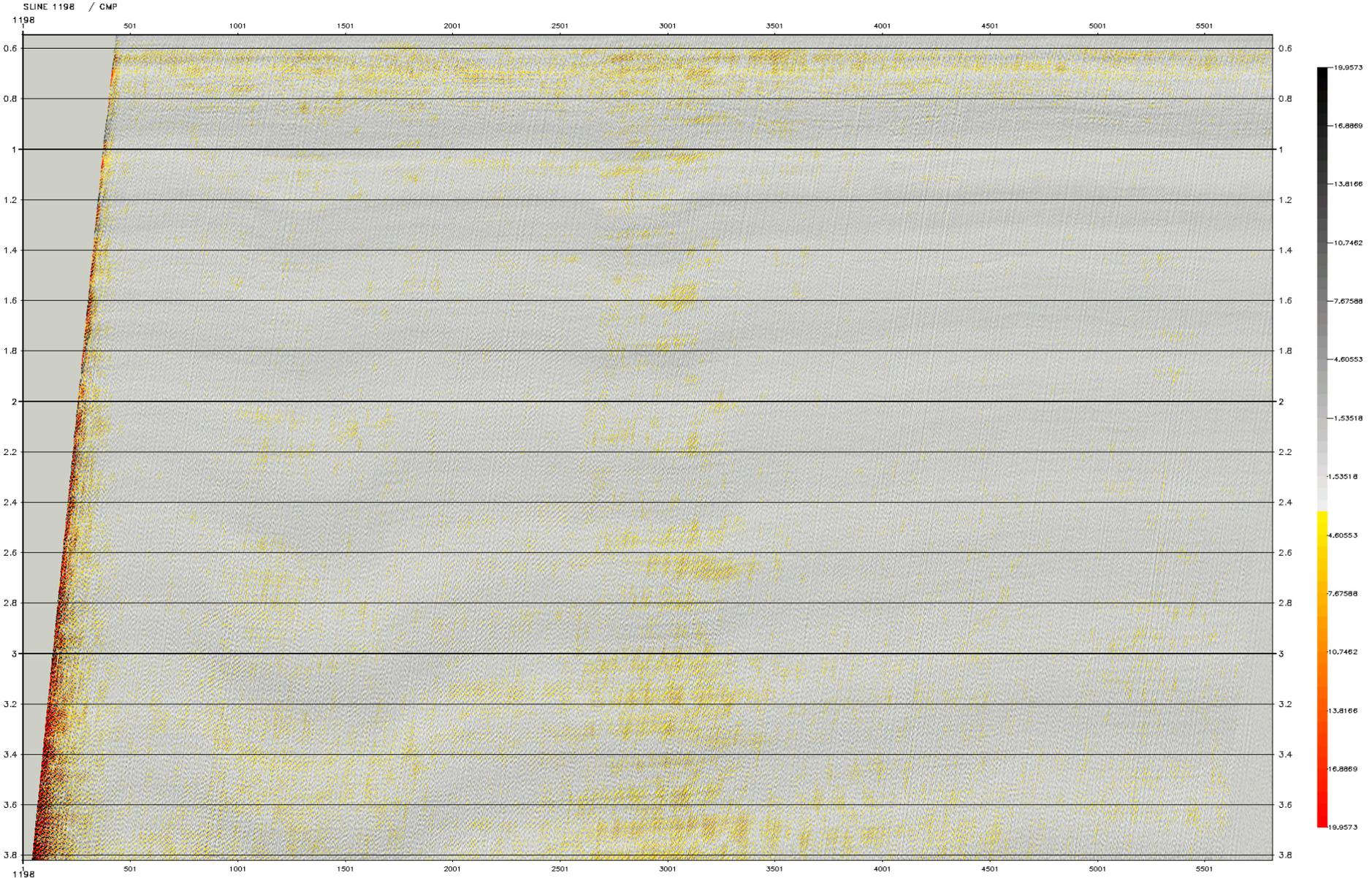
Stack after linear noise attenuation – Velocity 2750m/s

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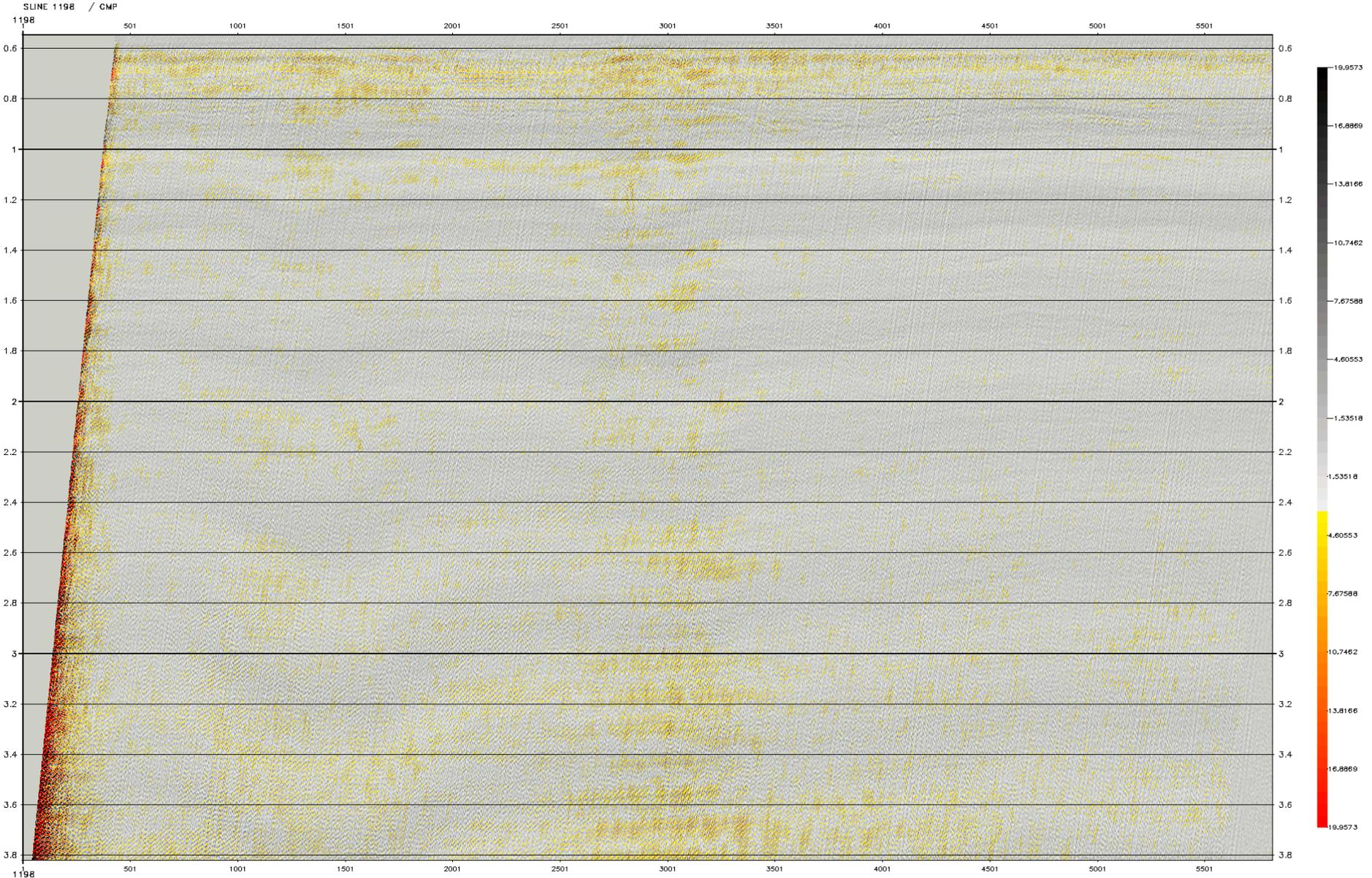
Stack: Difference display – Velocity 2250m/s

1198 noxr1 stk-1198 xrl2250 stk



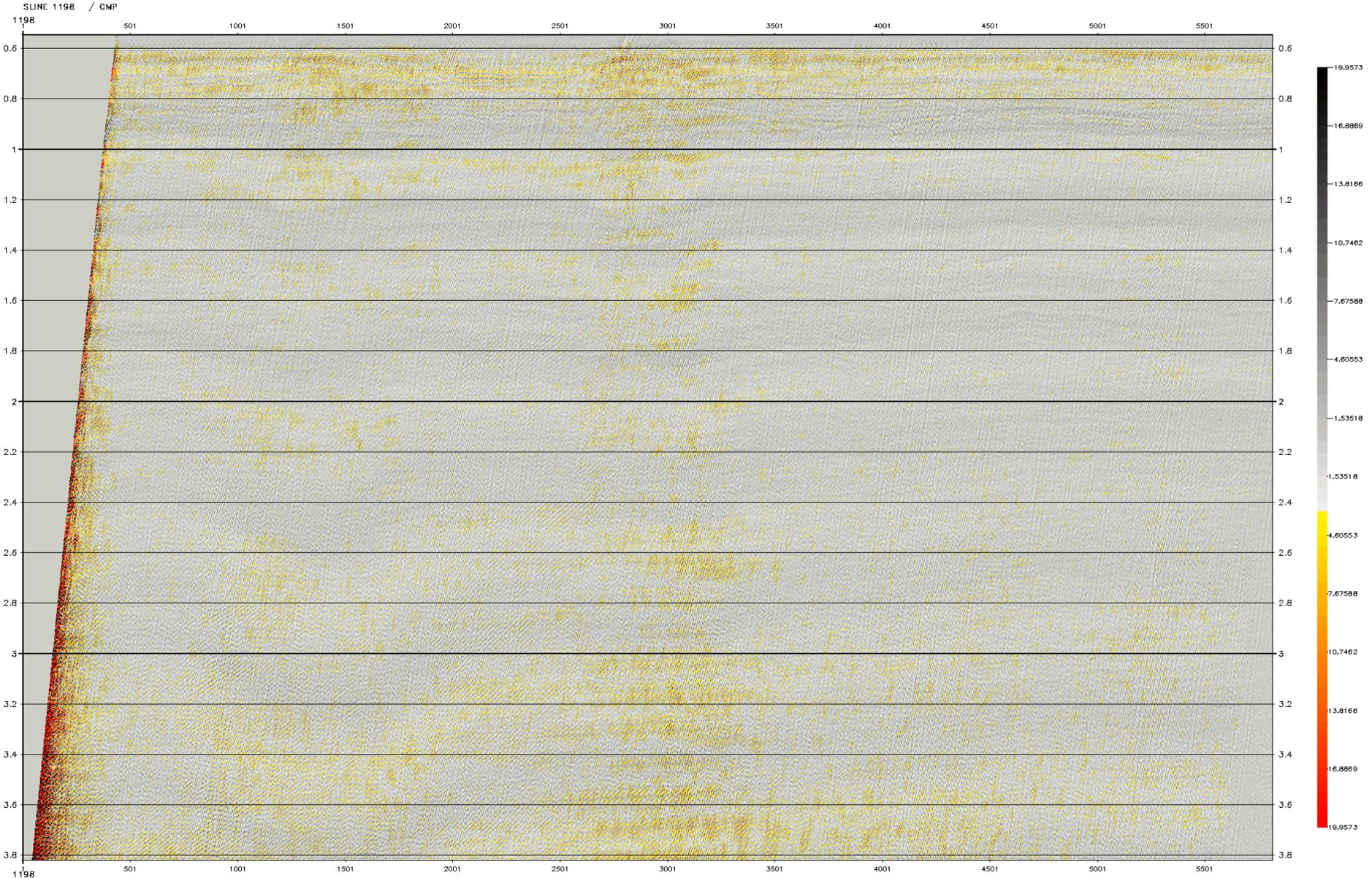
Stack: Difference display – Velocity 2500m/s

1198 noxr1 stk-1198 xrl2500 stk



Stack: Difference display – Velocity 2750m/s

1198 noxr1 stk-1198 xrl2750 stk



NMO corrected CDP gathers after linear noise attenuation with stacking mute graphed

