Tap Oil T/47P 3D PSTM

SRME AND TAUP TEST
Sailline 1378P1002 (near cable)
Shots 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, Velocity -2500m/s to 2500m/s
- SRME and Tau-P Test

CGGVERITAS

Test Summary

- Following combination of tests have been conducted to decide which process, SRME or Tau-P to be applied first.

- Input to the test is xrlin dataset

  - Test 1: Input ⟶ Tau-P
  - Test 2: Input ⟶ SRME
  - Test 3: Input ⟶ SRME ⟶ Tau-P
  - Test 4: Input ⟶ Tau-P ⟶ SRME

  For Tau-P, Operator length is 240ms and gap is 24ms

  For SRME, filter length 36ms and window length 512ms
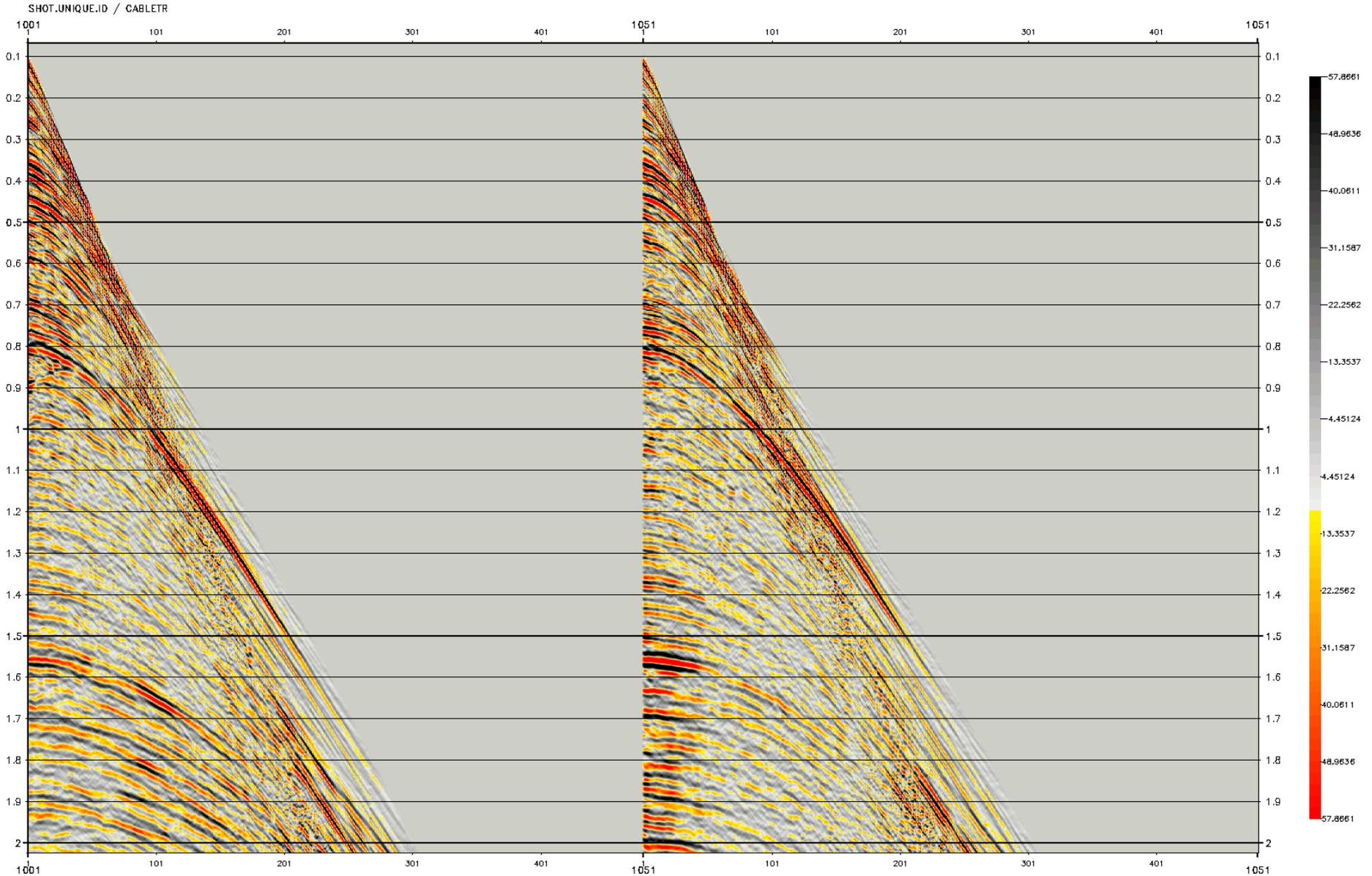
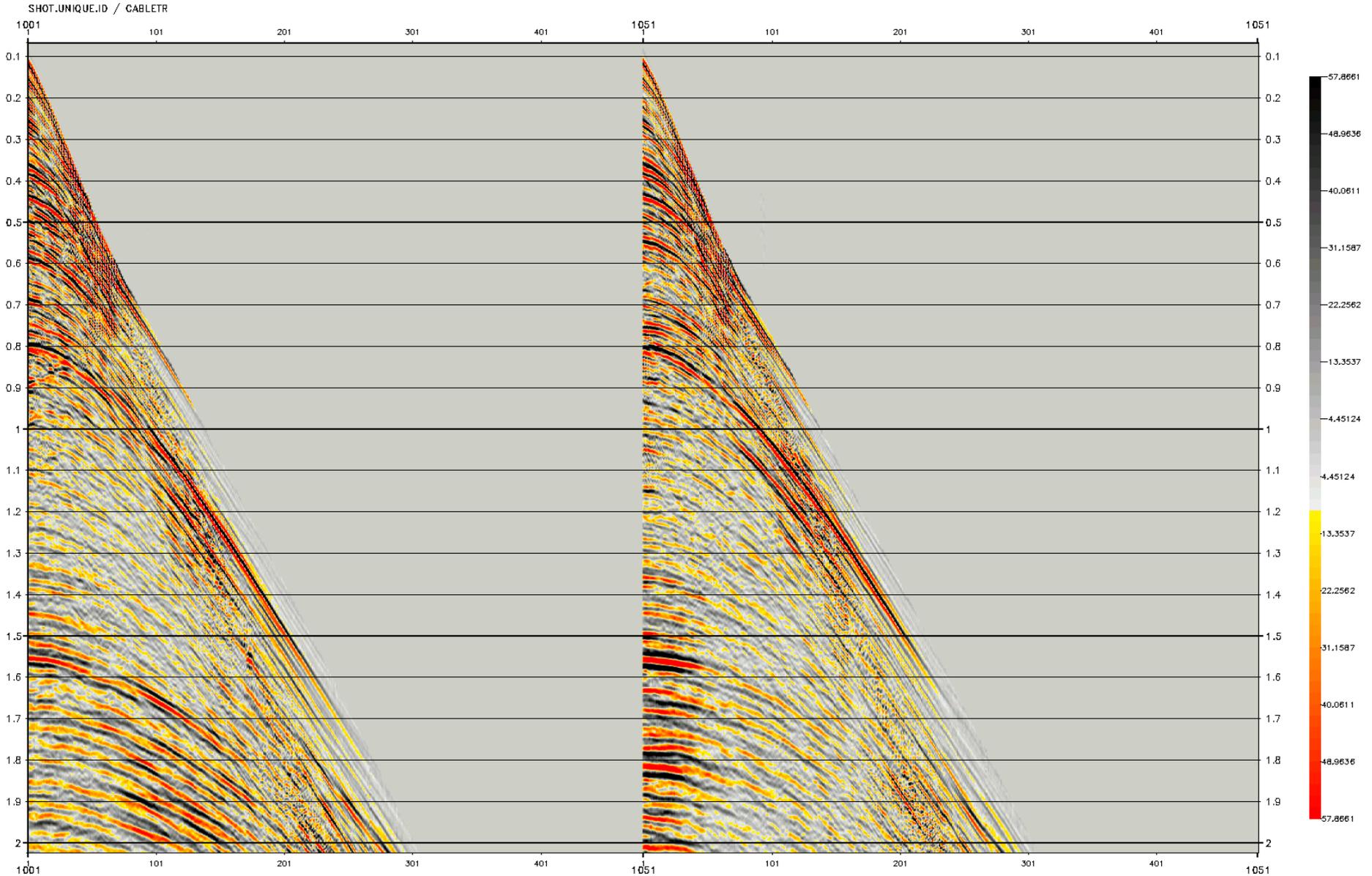**CGGVERITAS**

Input – Top View

Tango:vegas:spr224ws:s563tap:1378 notaup sht.1
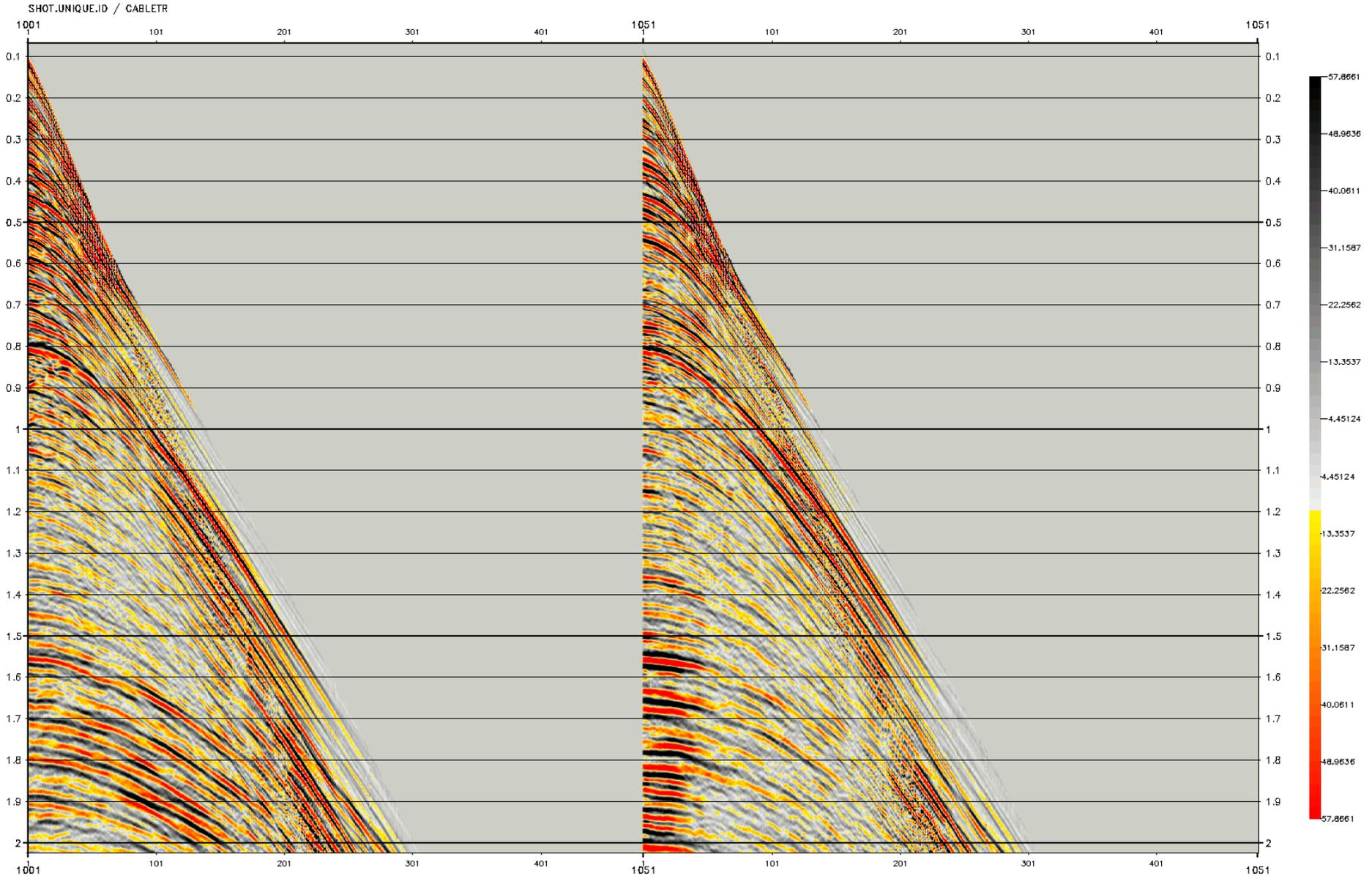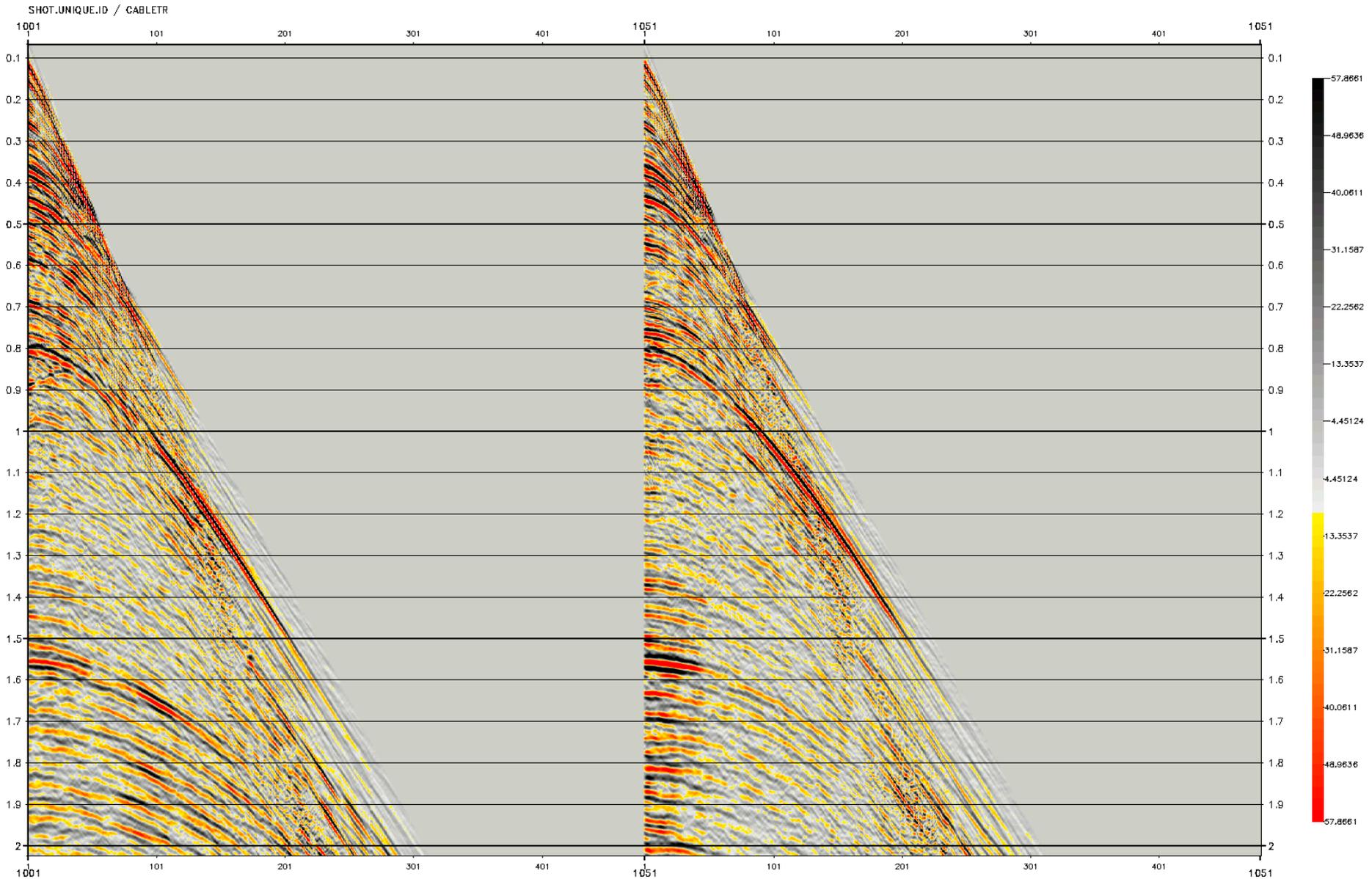
With Tau-P (Test 1) Top View

With SRME (Test 2) Top View

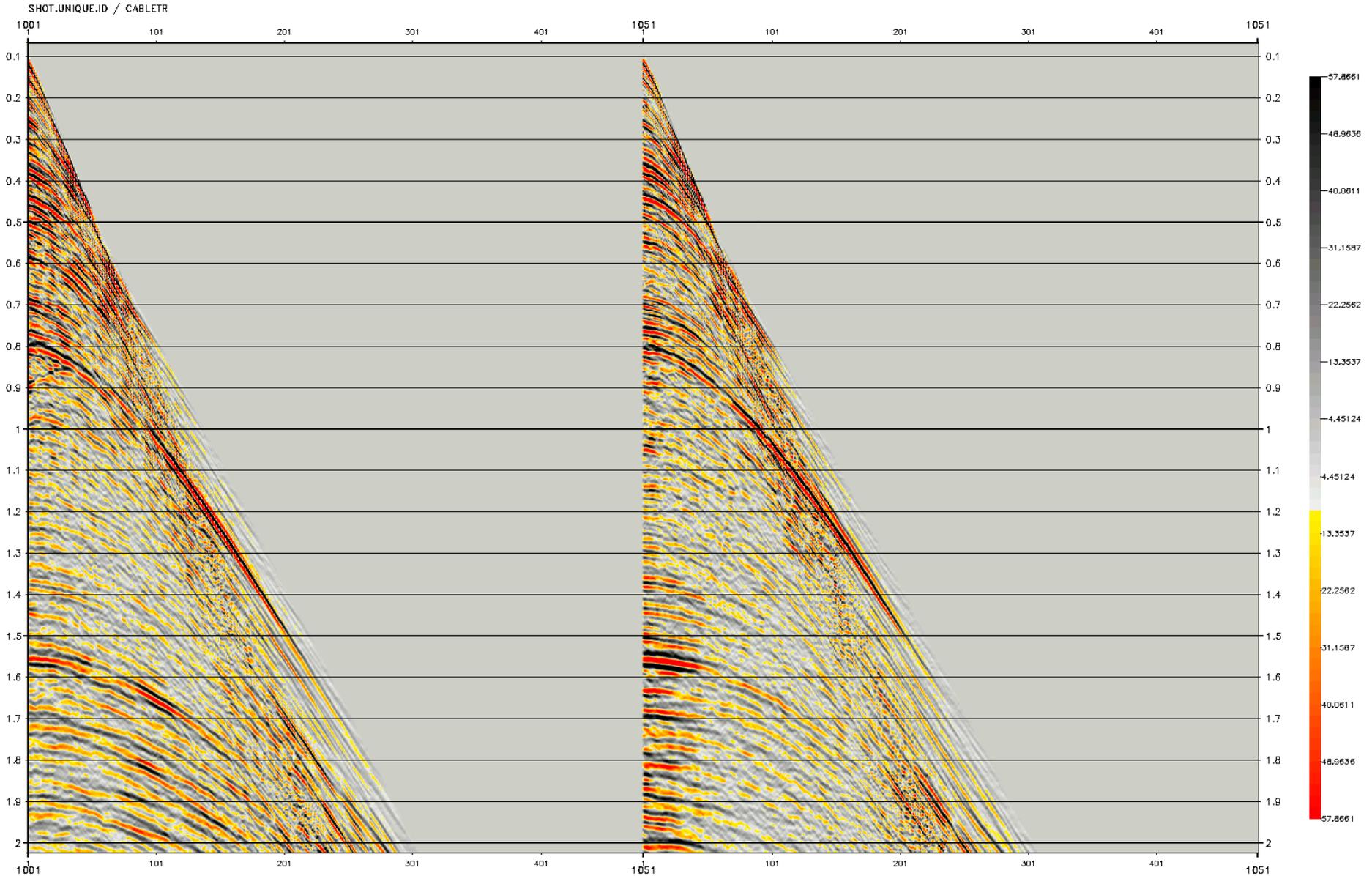Tango:vegas:spr224ws:s563tap:1378 srme2 shtc.1

With SRME + Tau-P (Test 3) Top View
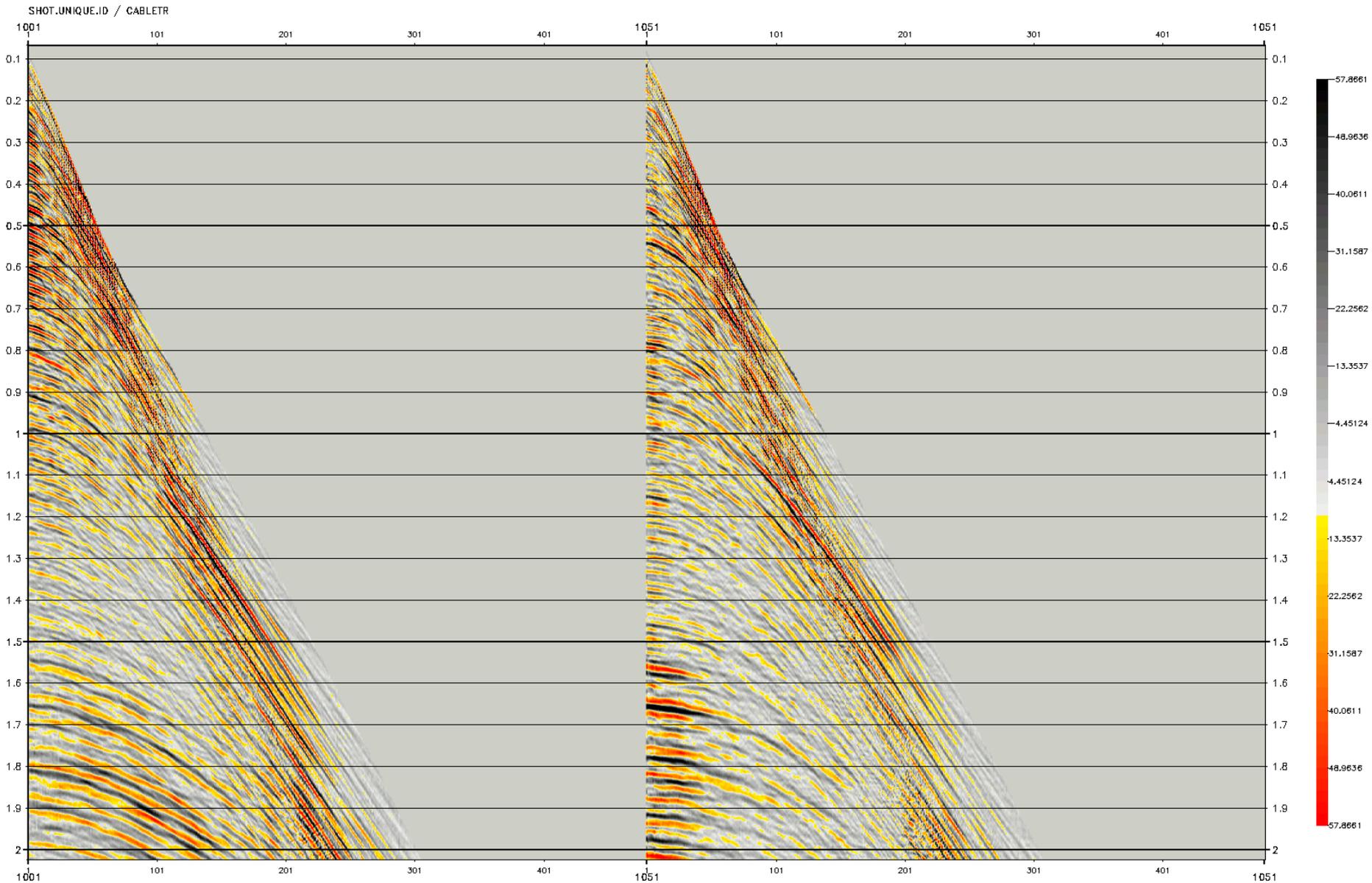
Tango:vegas:spr224ws:s563tap:1378 srmetp sht2.1

With Tau-P + SRME (Test 4) Top View

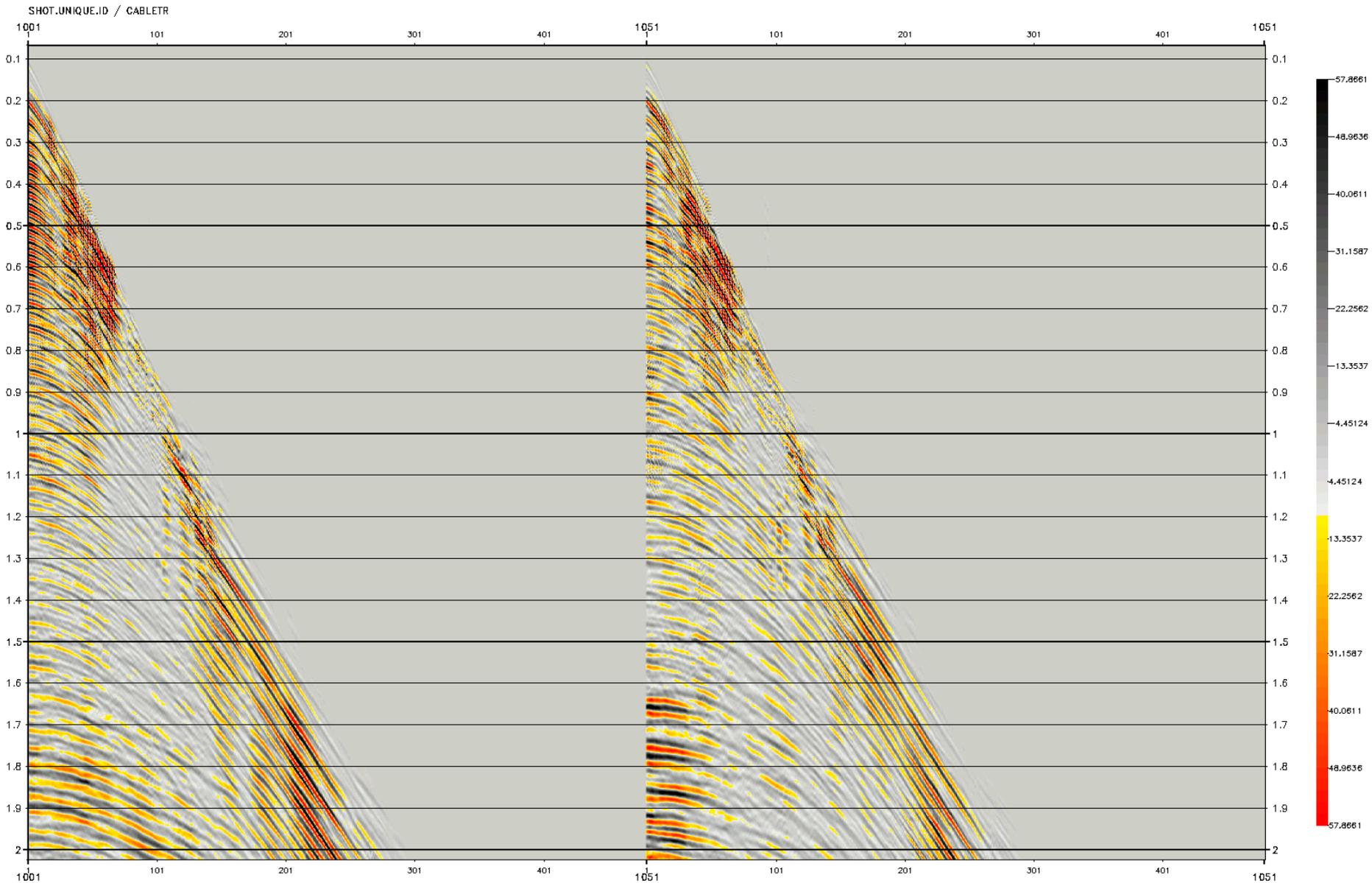Tango:vegas:spr224ws:s563tap:1378 tpsrme2 shtc.1

Difference display –Tau-P (test 1) – Top view
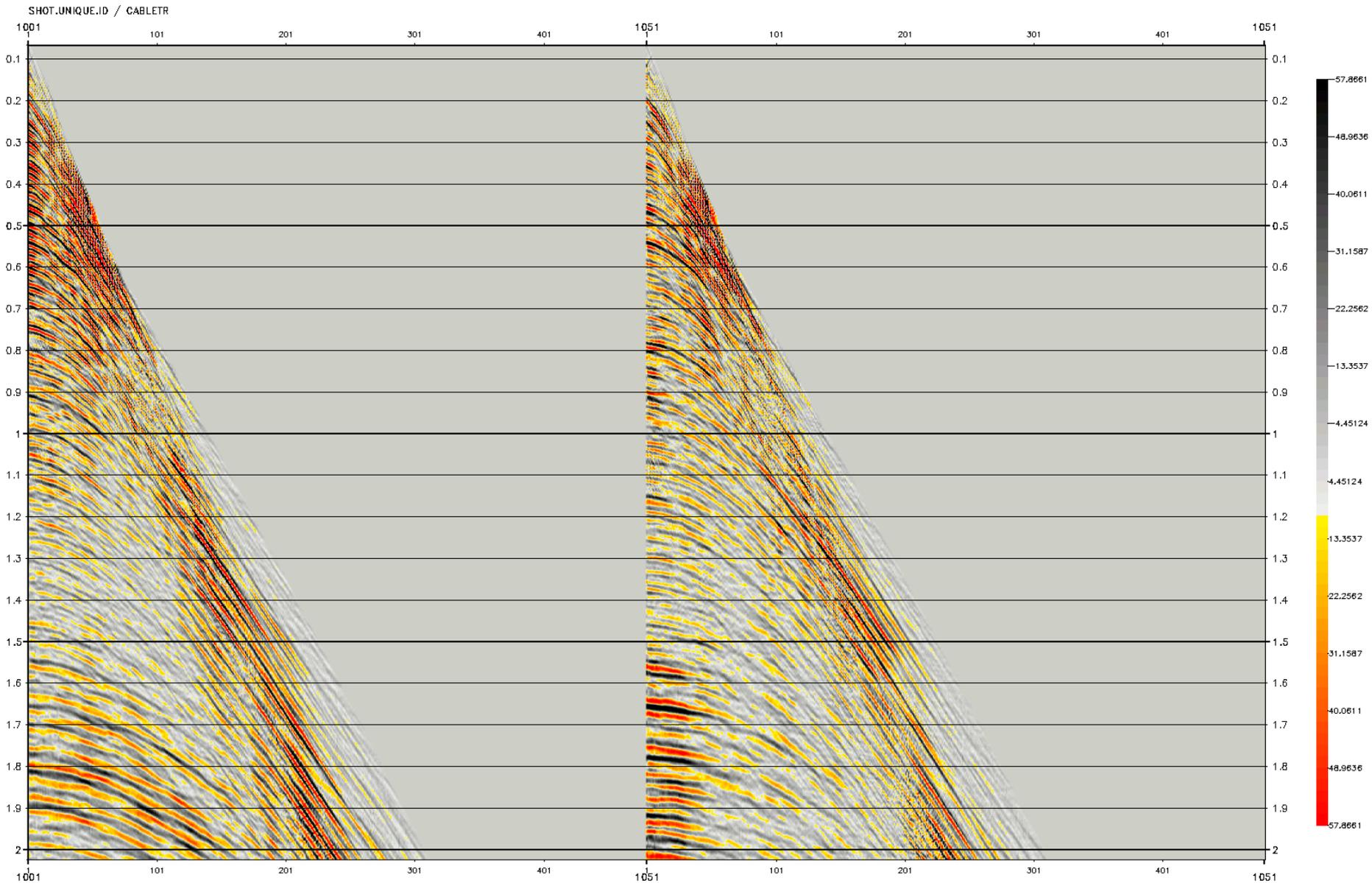

1378 notaup sht–1378 tp24 240shtn

Difference display – SRME (test 2) – Top view
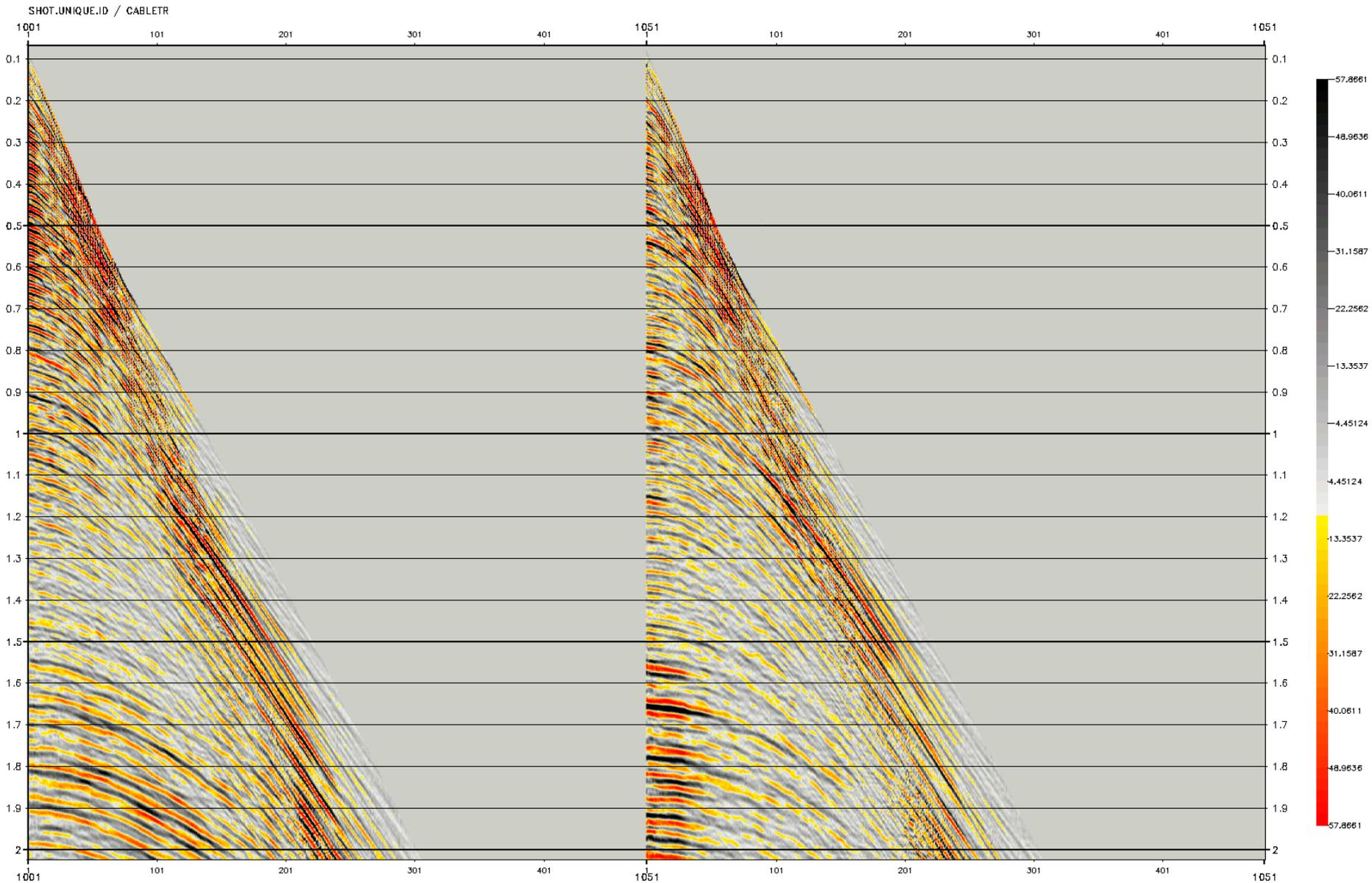

1378 notaup sht–1378 srme2 shtc

Difference display – SRME + Tau-P (test 3) – Top view
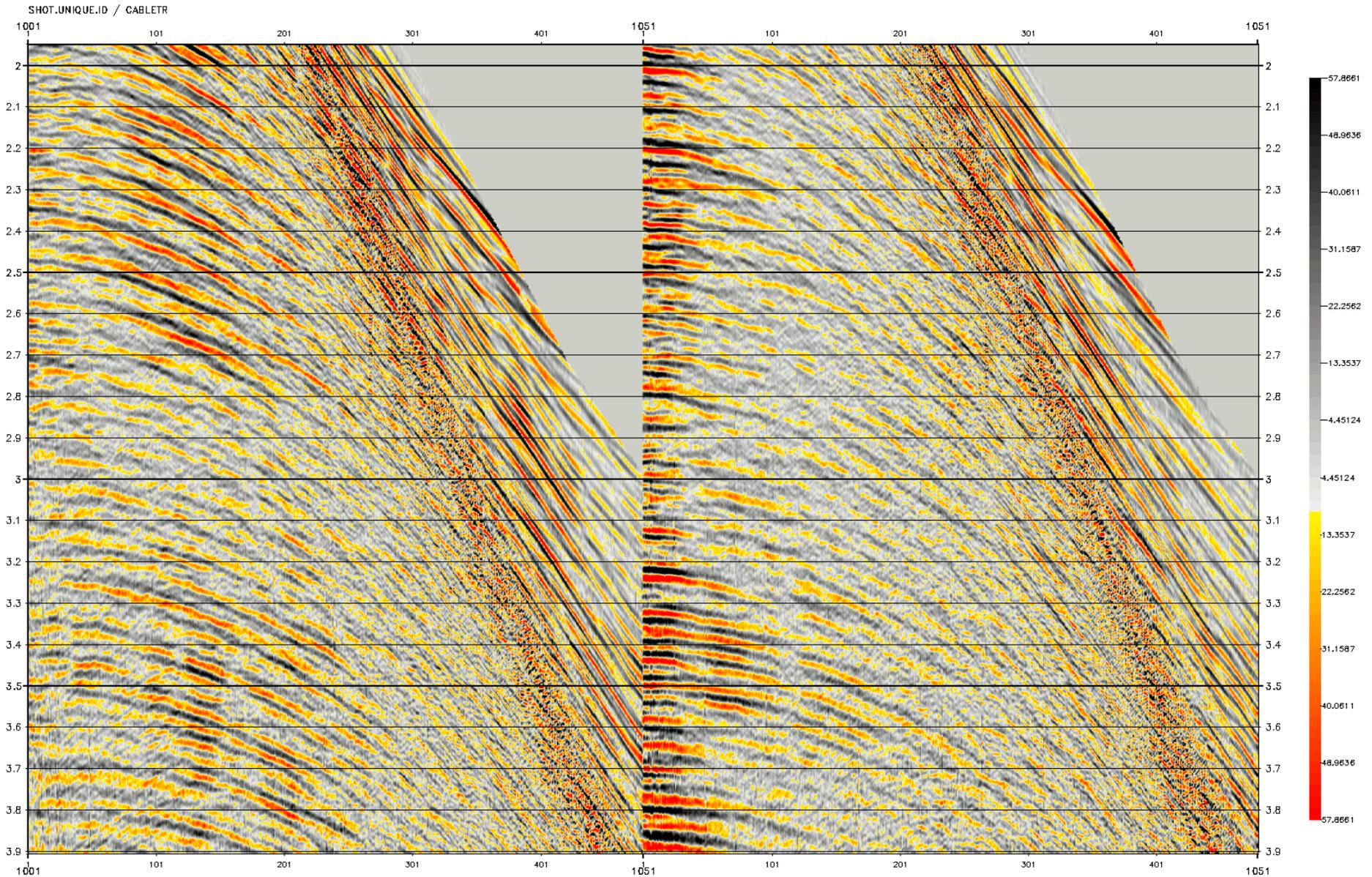

1378 notaup sht–1378 srmetp sht2

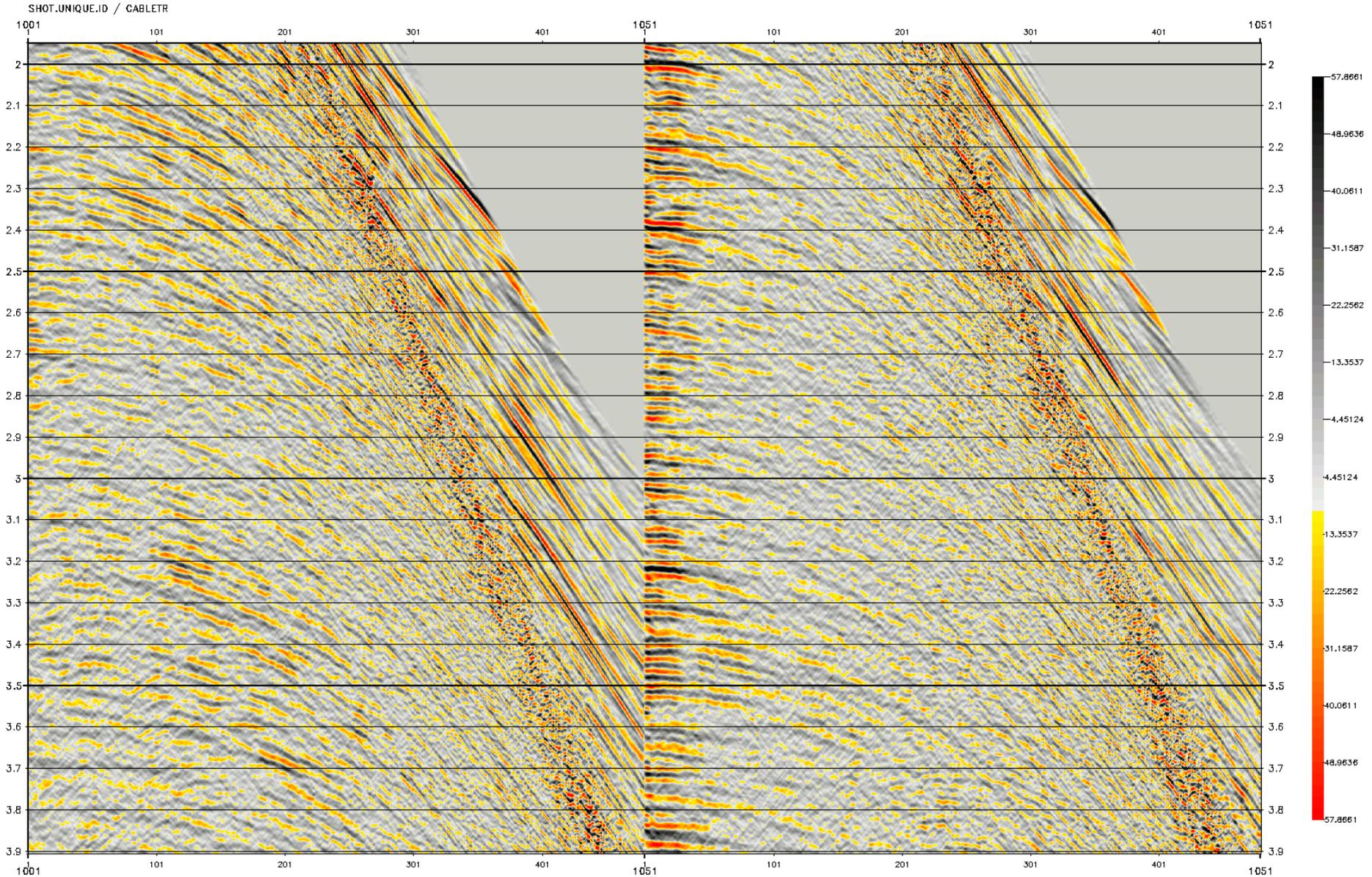# Difference display –Tau-P + SRME (test 4) – Top view

Input – Bottom View

Tango:vegas:spr224ws:s563tap:1378 notaup sht.1
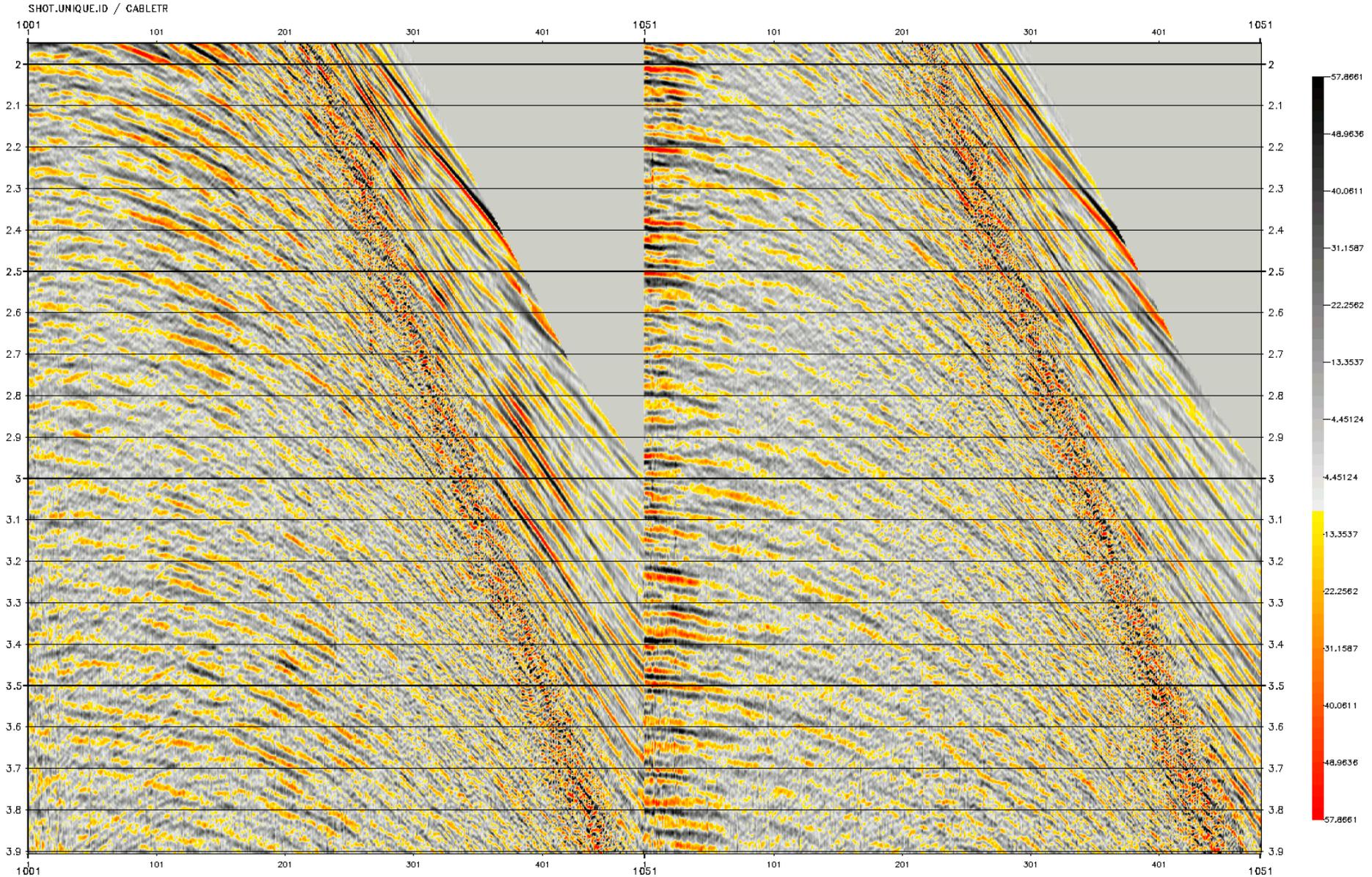
With Tau-P (Test 1) Bottom View

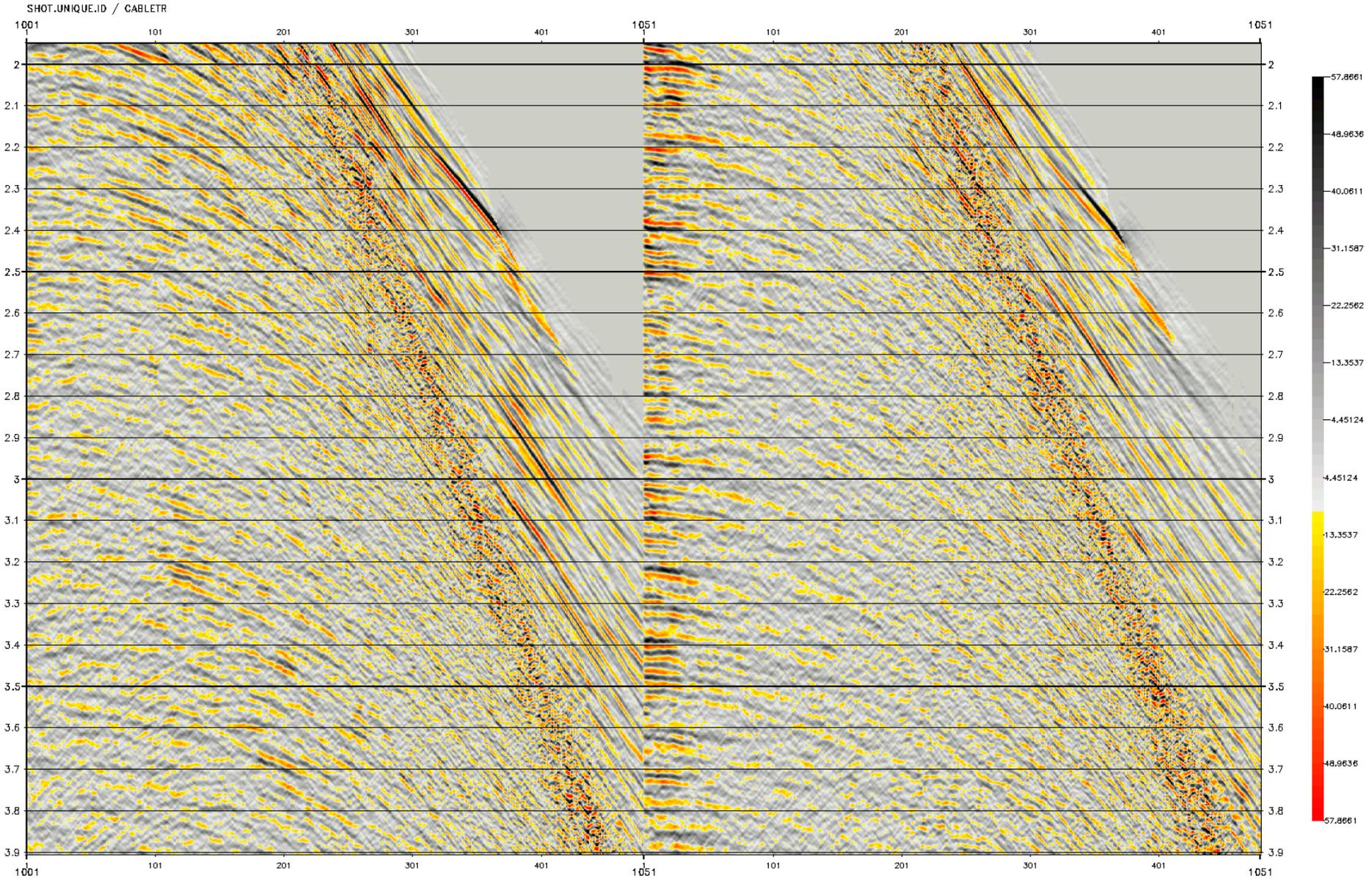Tango:vegas:spr224ws:s563tap:1378 tp24 240shln.1

With SRME (Test 2) Bottom View

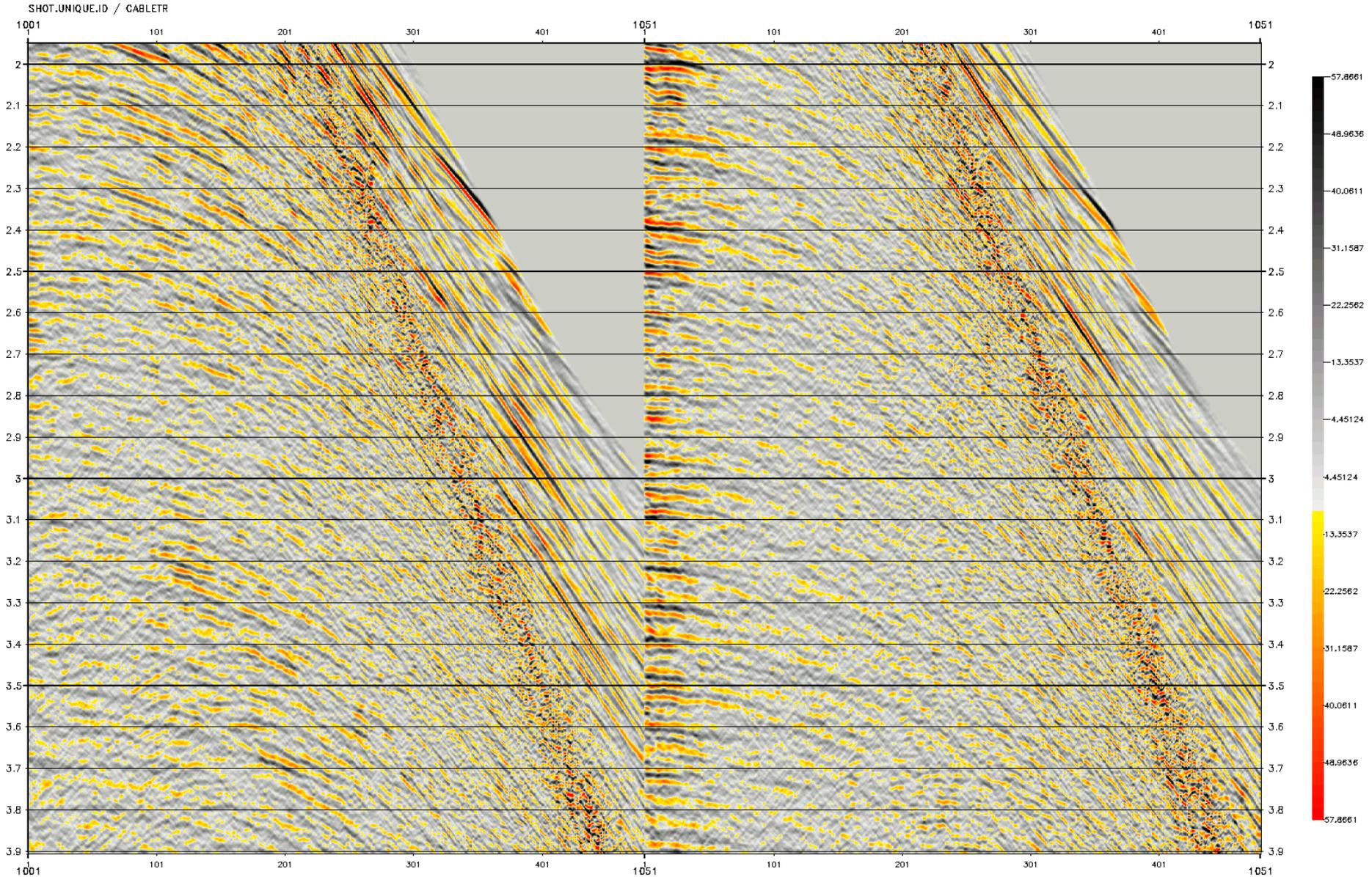Tango:vegas:spr224ws:s563łap:1378 srme2 shtc.1

With SRME + Tau-P (Test 3) Bottom View

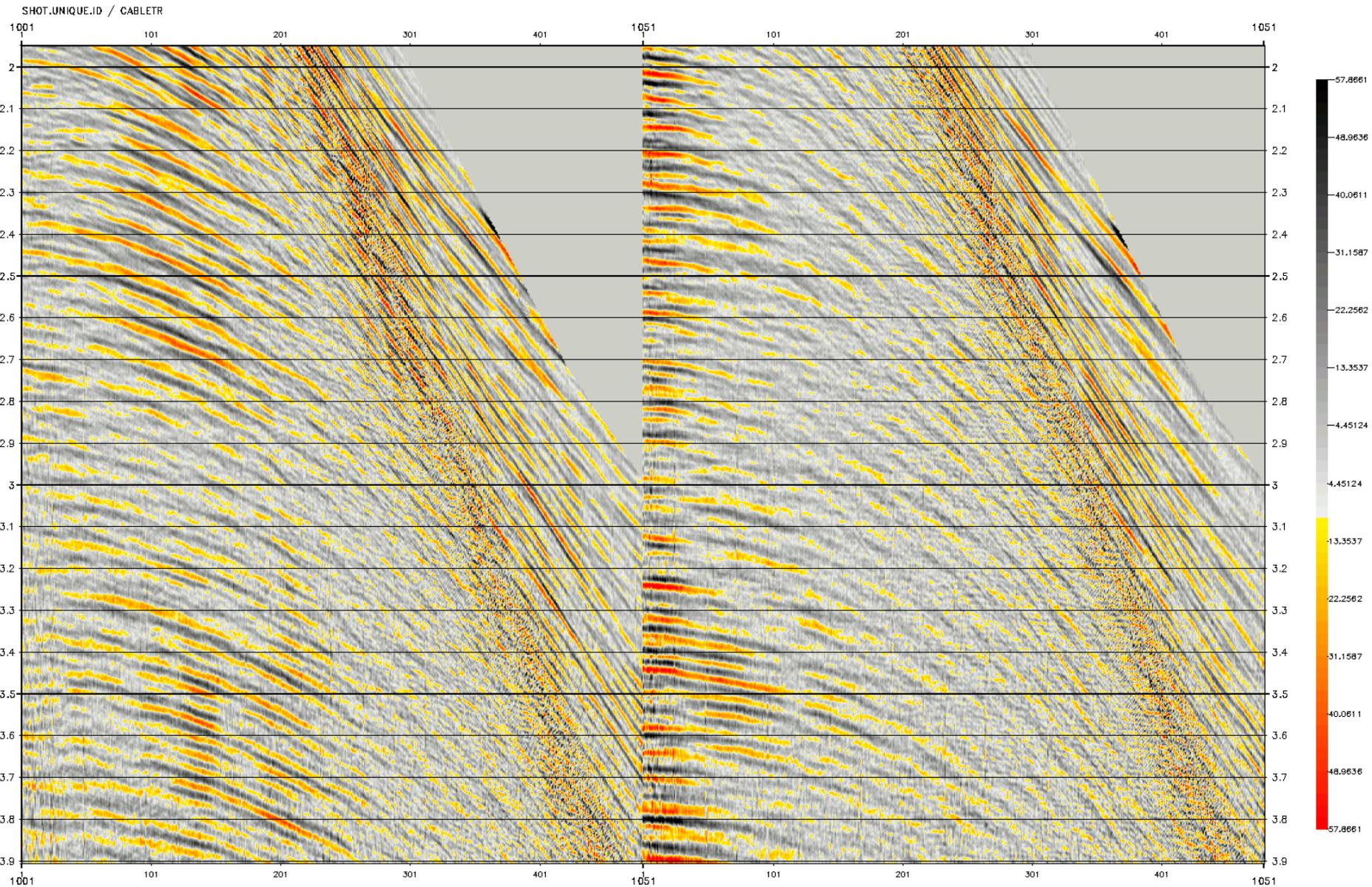Tango:vegas:spr224ws:s563tap:1378 srmetp sht2.1

With Tau-P + SRME (Test 4) Bottom View

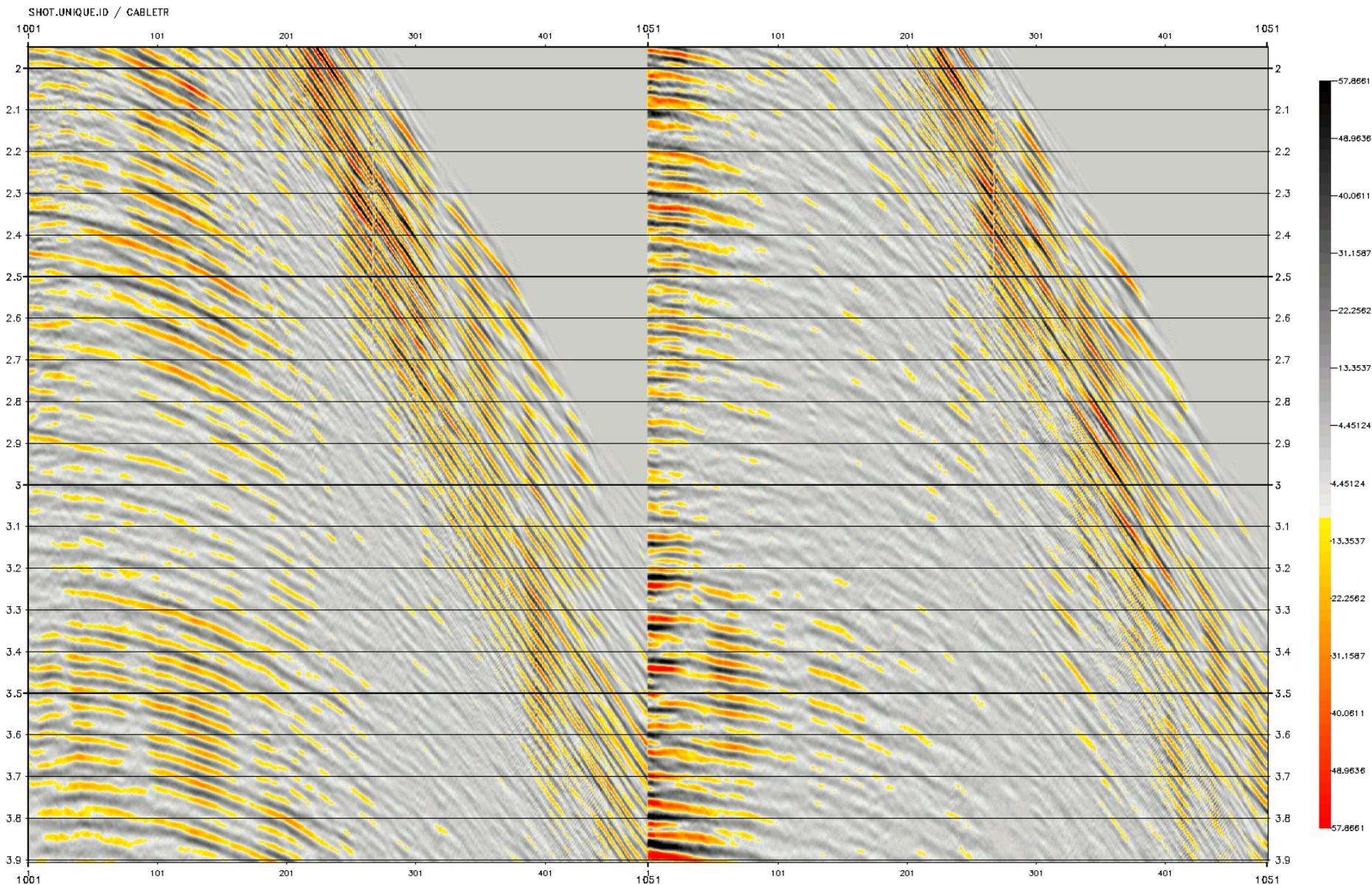Tango:vegas:spr224ws:s563tap:1378 fpsrme2 shtc.1

Difference display –Tau-P (test 1) – Bottom view
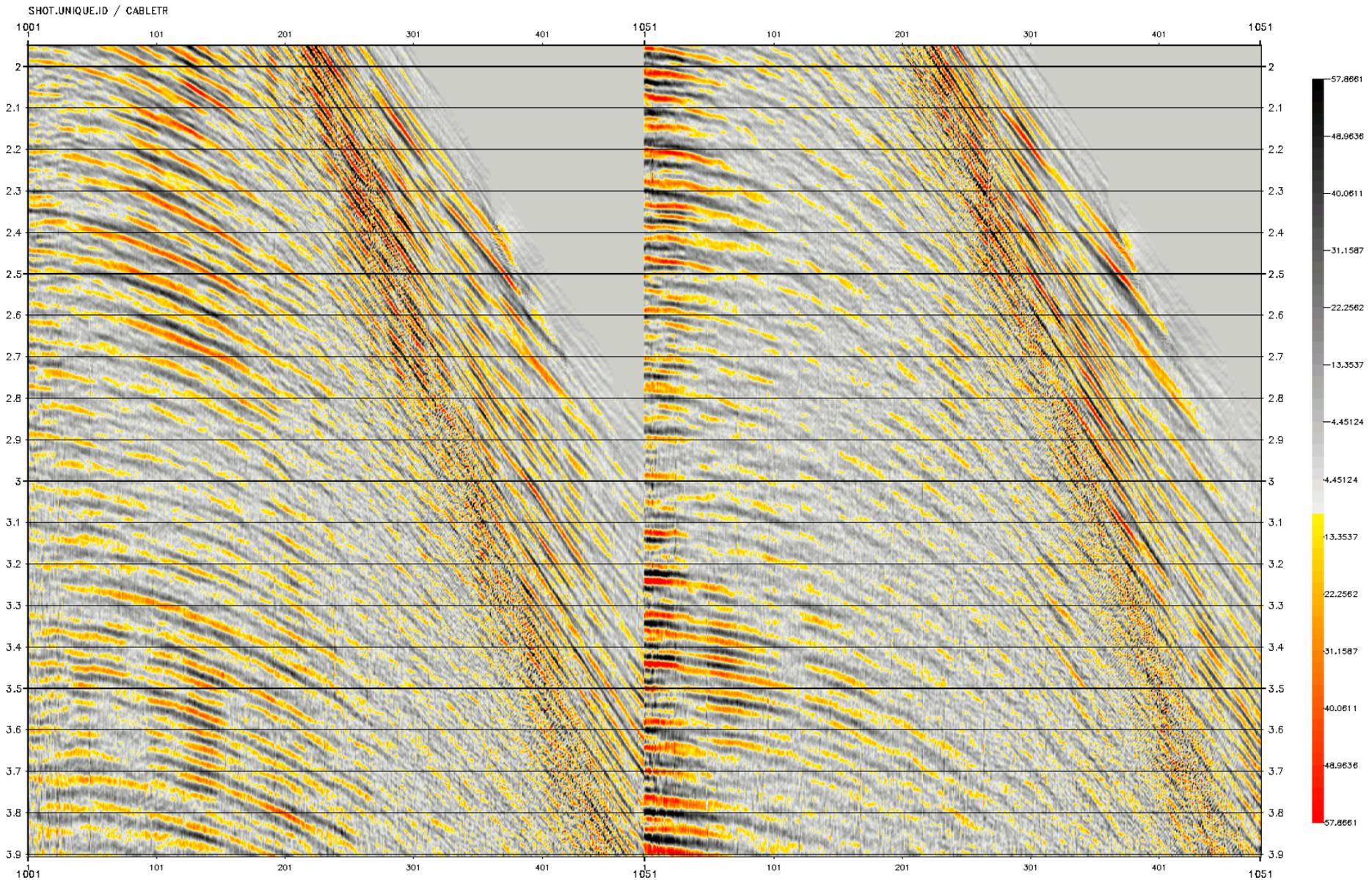

1378 notaup sht–1378 tp24 240shtn

Difference display – SRME (test 2) – Bottom view

Difference display – SRME + Tau-P (test 3) – Bottom view

Difference display –Tau-P + SRME (test 4) – Bottom view
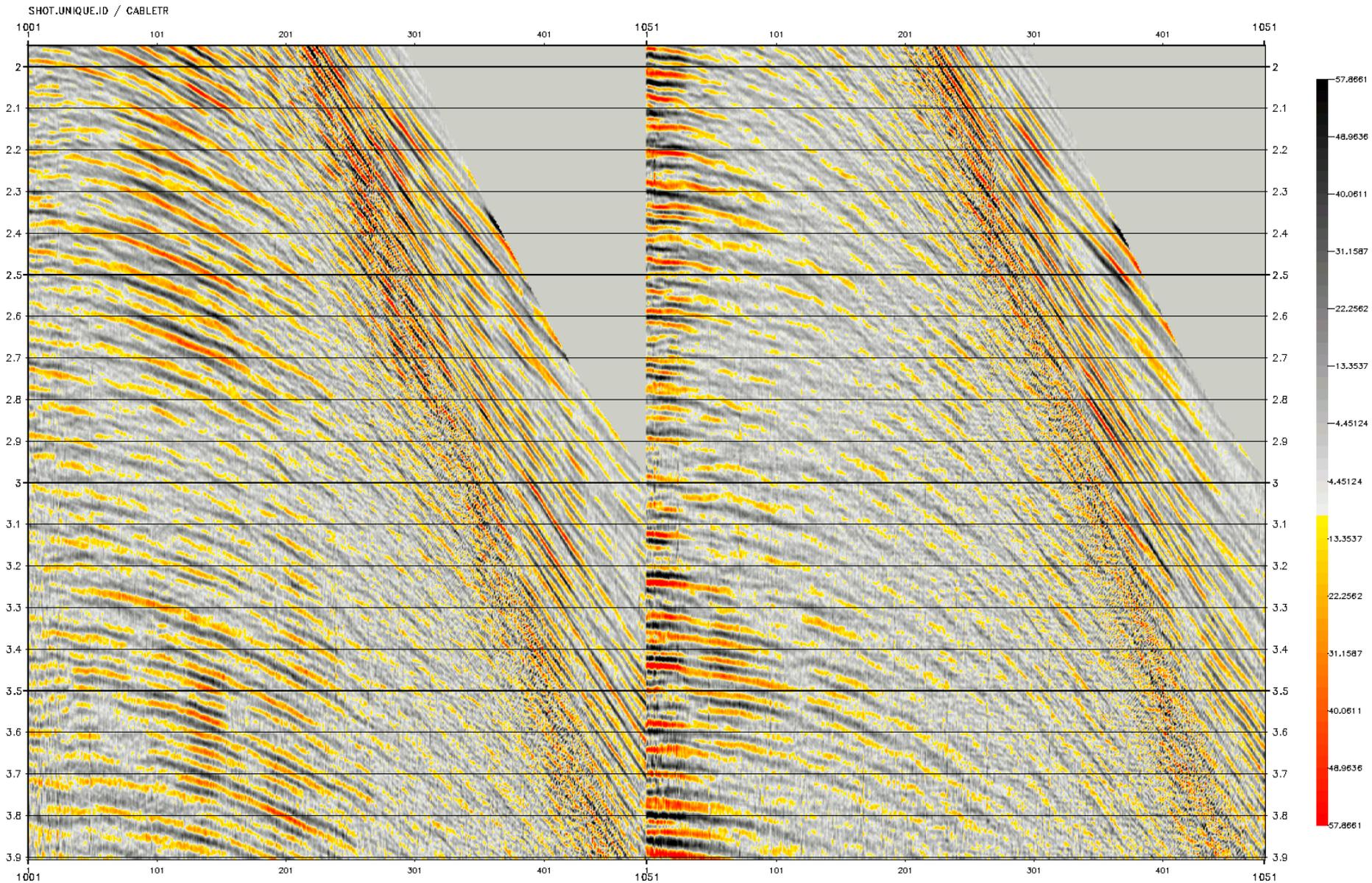
Recommendation

- Among the 4 combinations, Test 1 (only taup) and test 4 (taup + srme) looks better. It looks like, there is not much advantage of SRME applying in the data.