

# Tap Oil T/47P 3D PSTM

---



SRME AND TAUP TEST  
Sailline 1378P1002 (outer 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

# Test Summary

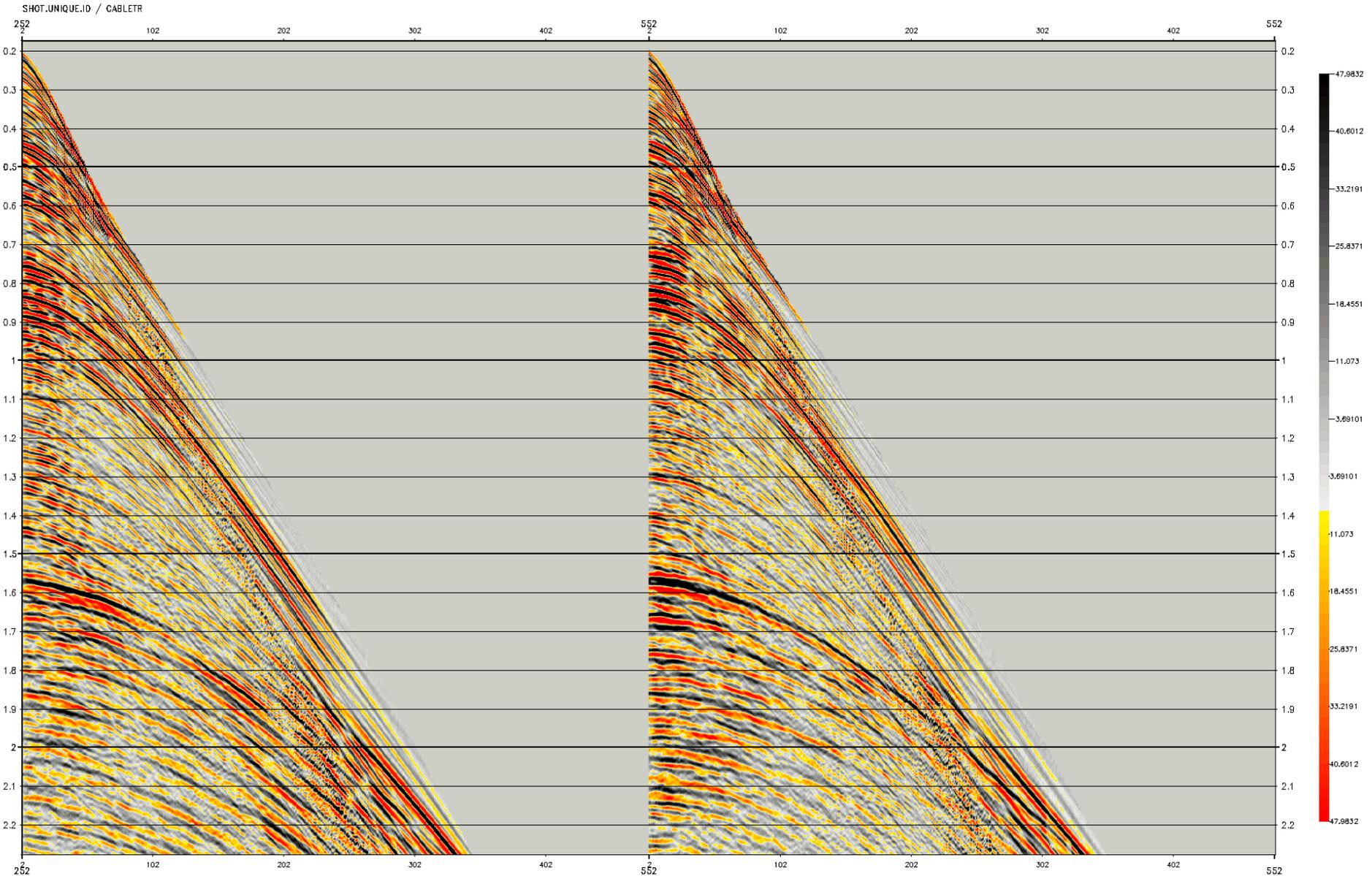
- Following combination of tests have been conducted to decide which process, SRME or Tau-P to be applied first.
- Input to the test is xrlin dataset
  - **Test 1:** Input → Tau-P
  - **Test 2:** Input → SRME
  - **Test 3:** Input → SRME → Tau-P
  - **Test 4:** Input → Tau-P → SRME

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

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

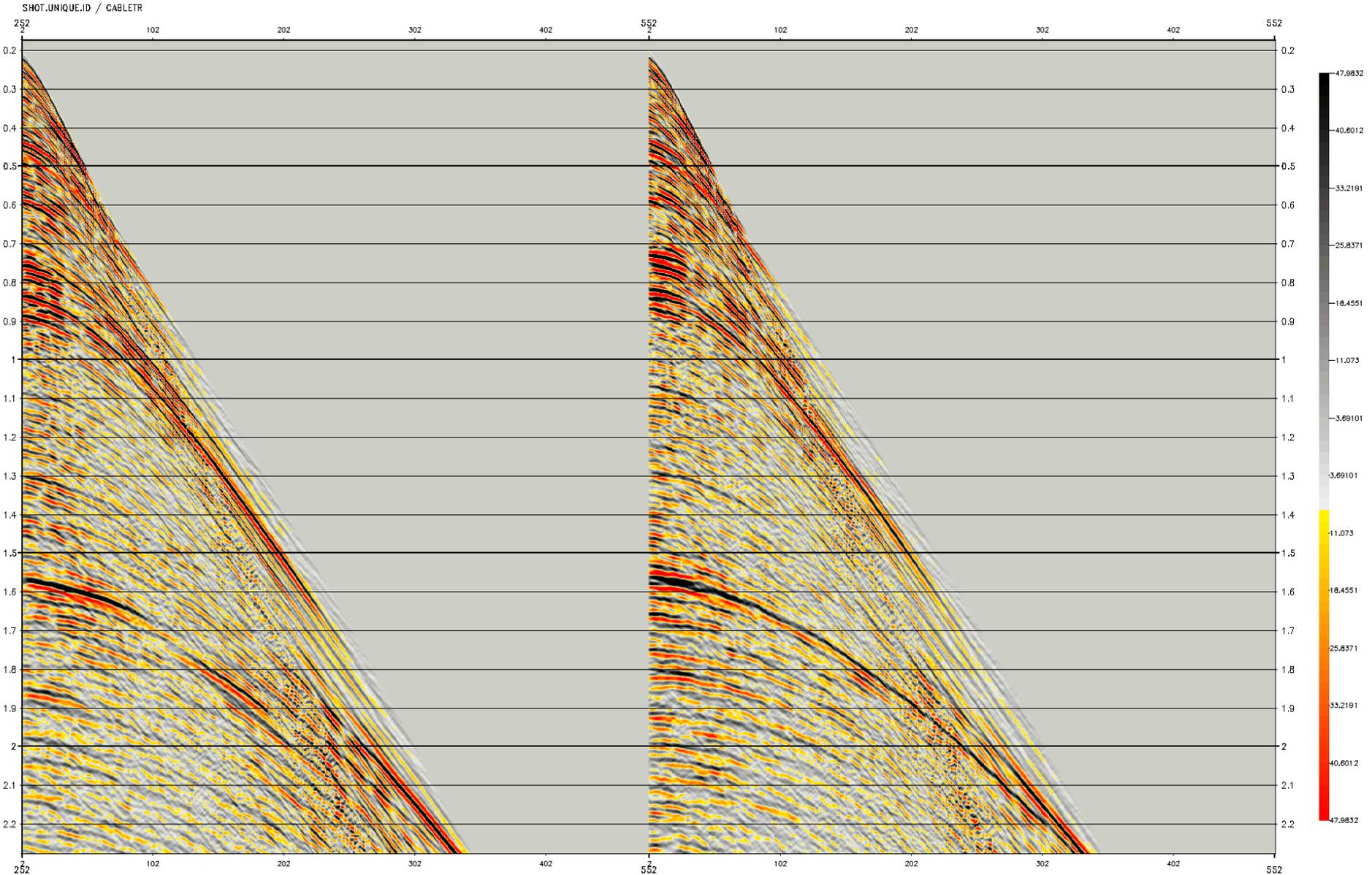
# Input – Top View

Tango:vegas:spr224ws:s563lap:1378s11 notp sh1.1



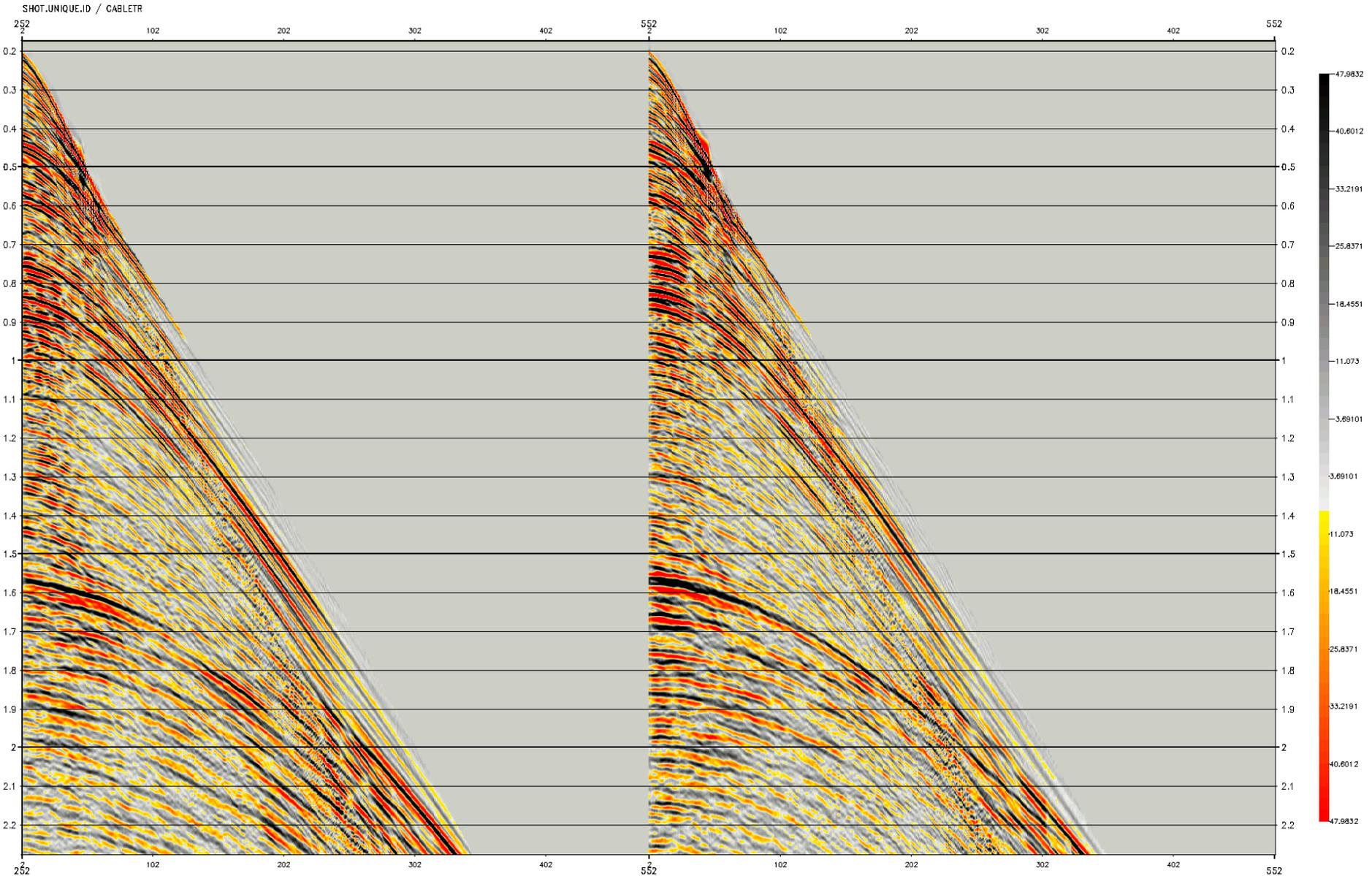
# With Tau-P (test 1) – Top View

Tango:vegas:spr224ws:s563lap:1378s11 taup\_sht.1



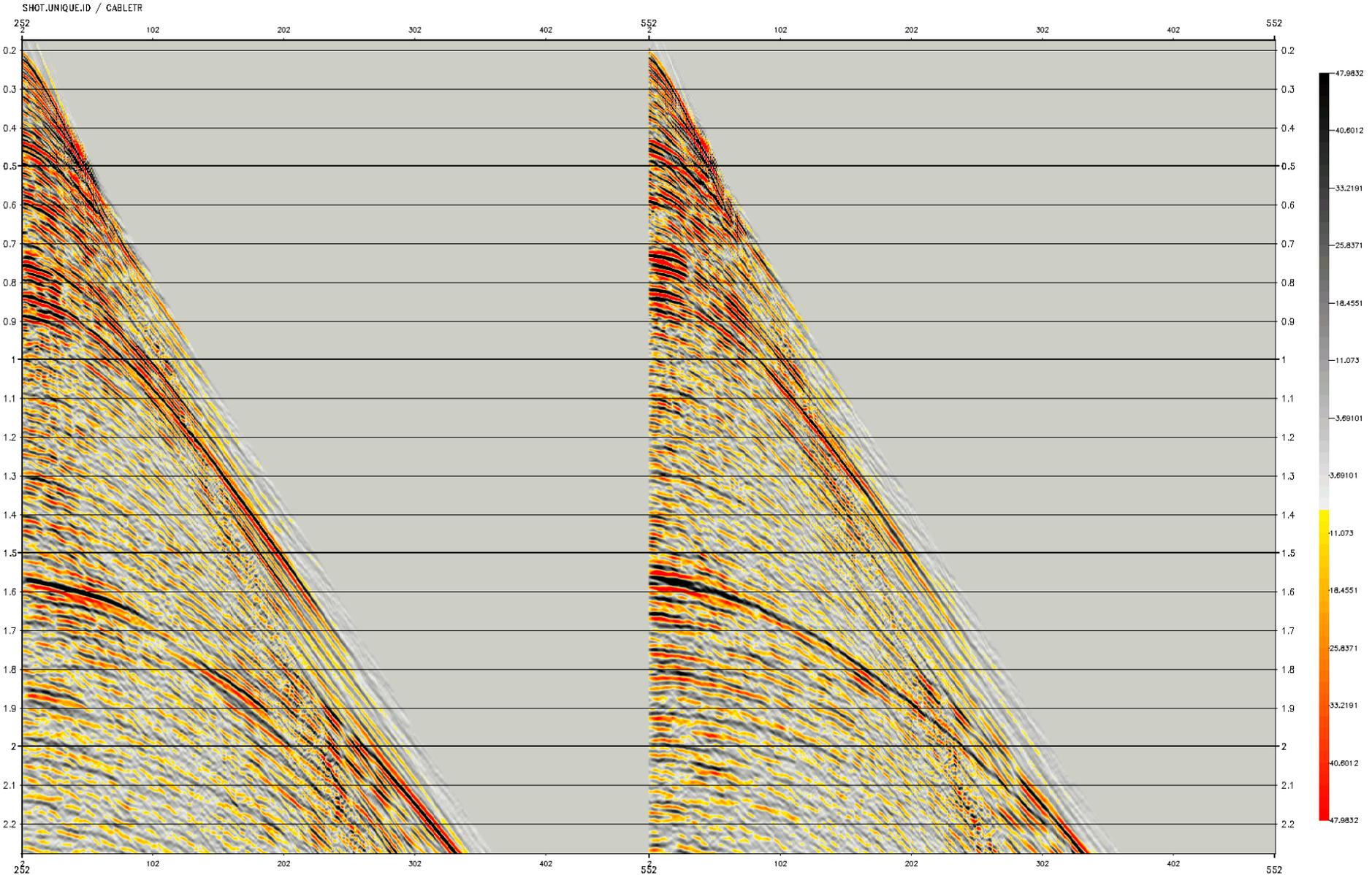
# With SRME (test 2) – Top View

Tango:vegas:spr224ws:s563lap:1378s11 sr2 sh1.1



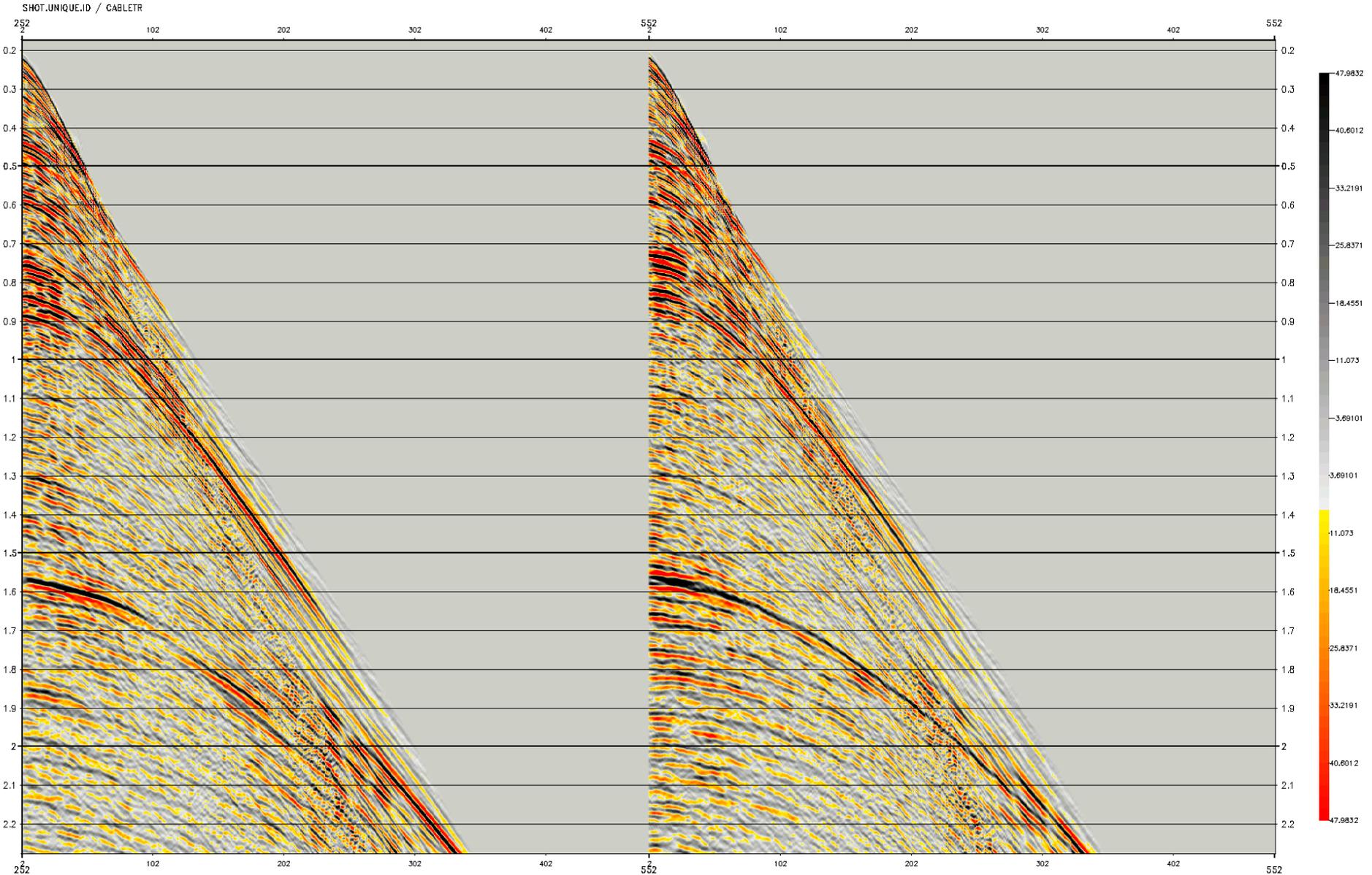
# With SRME + Tau-P (test 3) – Top View

Tango:vegas:spr224ws:s563lap:1378s11 srtp sh1.1



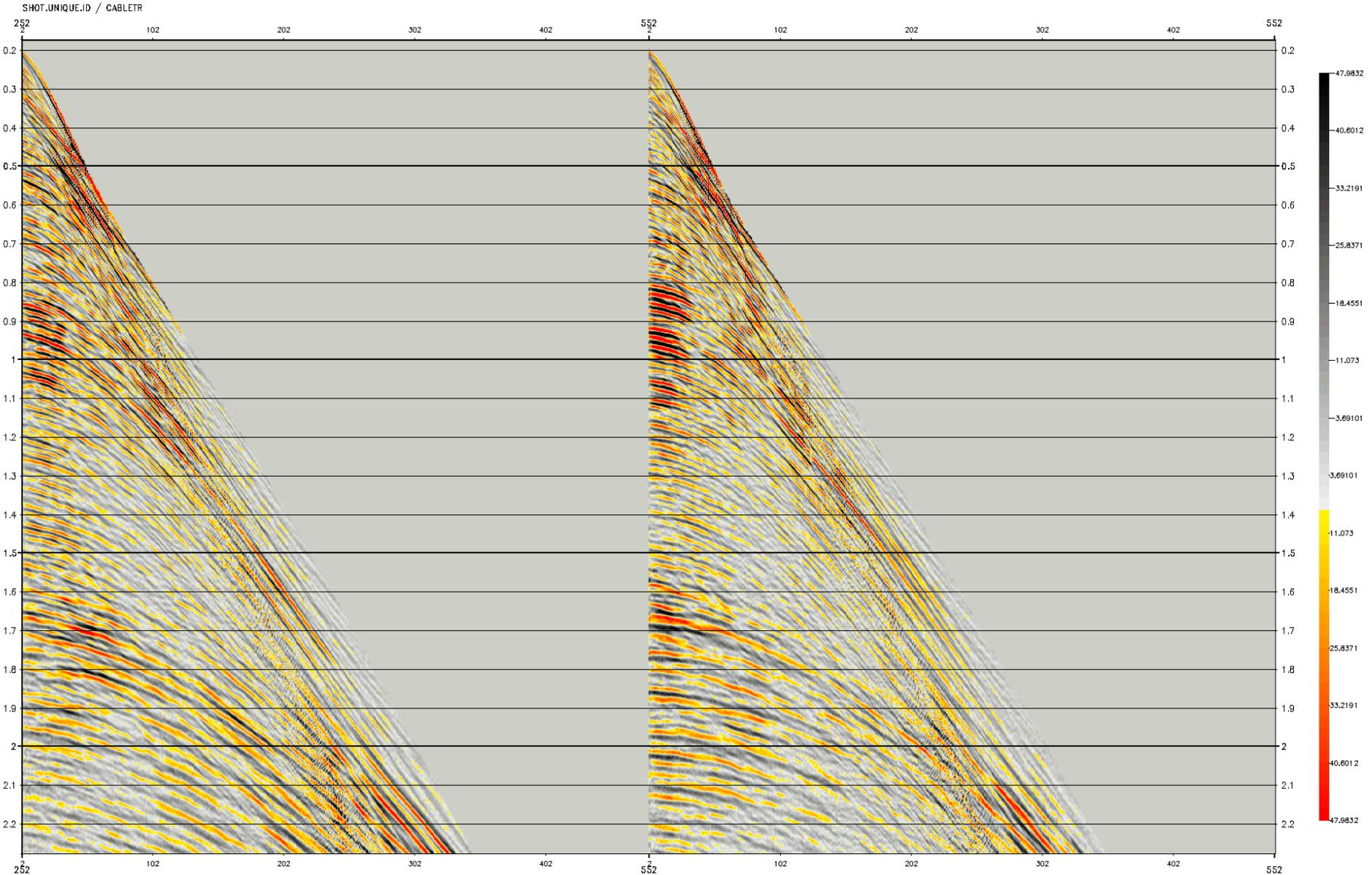
# With Tau-P + SRME (test 4) – Top View

Tango:vegas:spr224ws:s563lap:1378s11 lpsr2 sh1.1



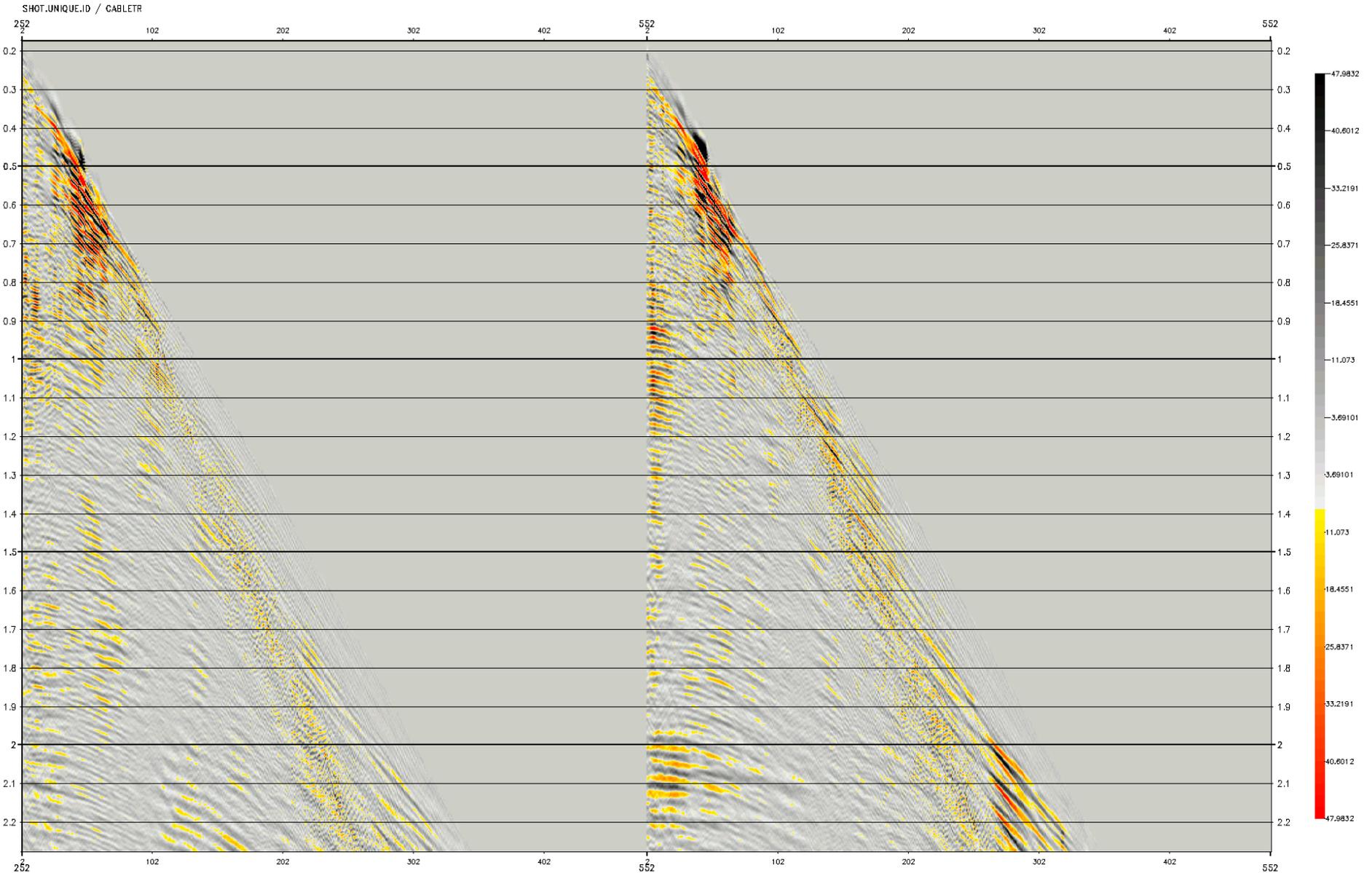
# Difference display -Tau-P (test 1) Top View

1378s11 notp sht-1378s11 taup sht



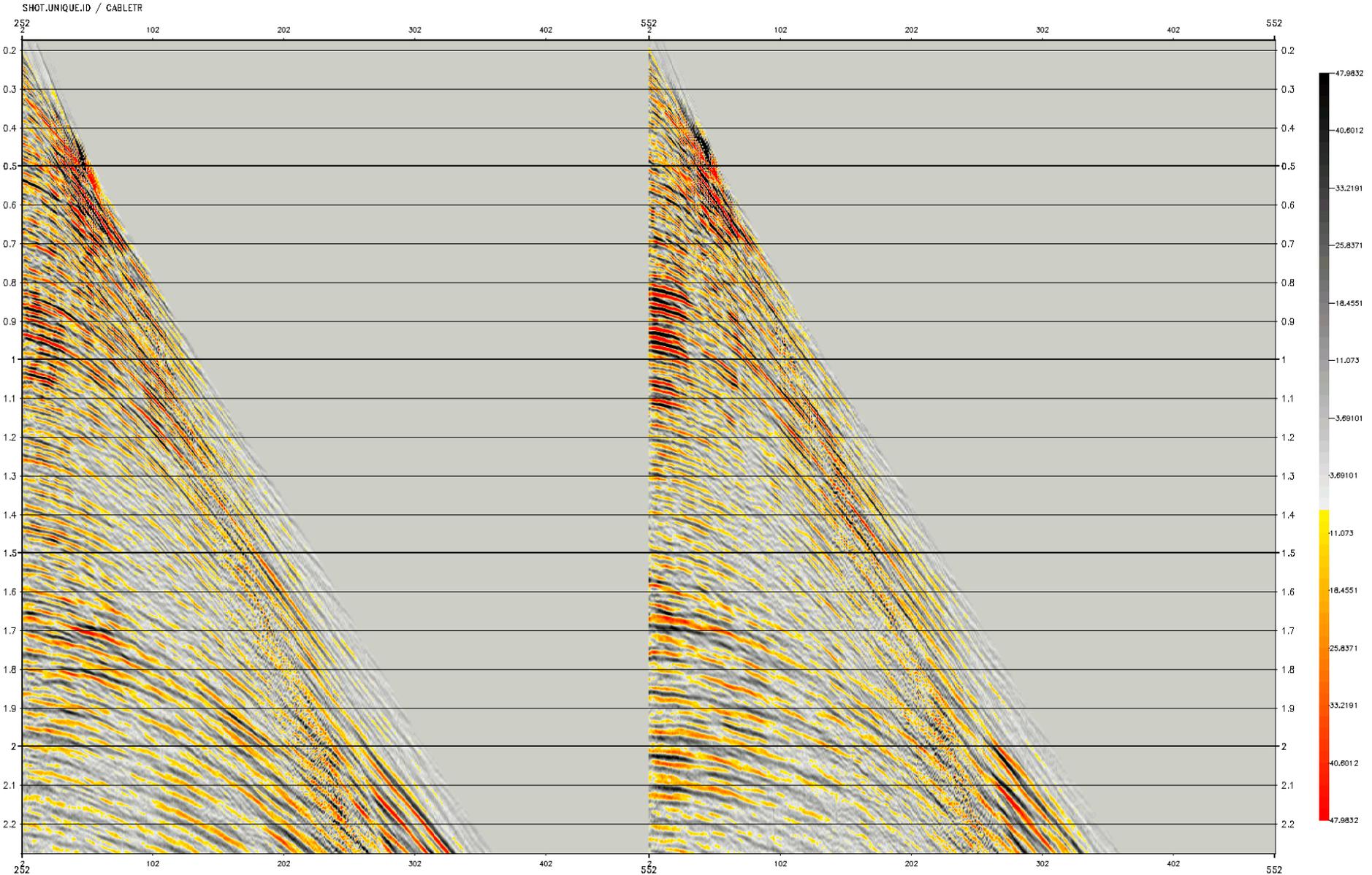
# Difference display – SRME (test 2) Top View

1378s11 no1p sht-1378s11 sr2 sht



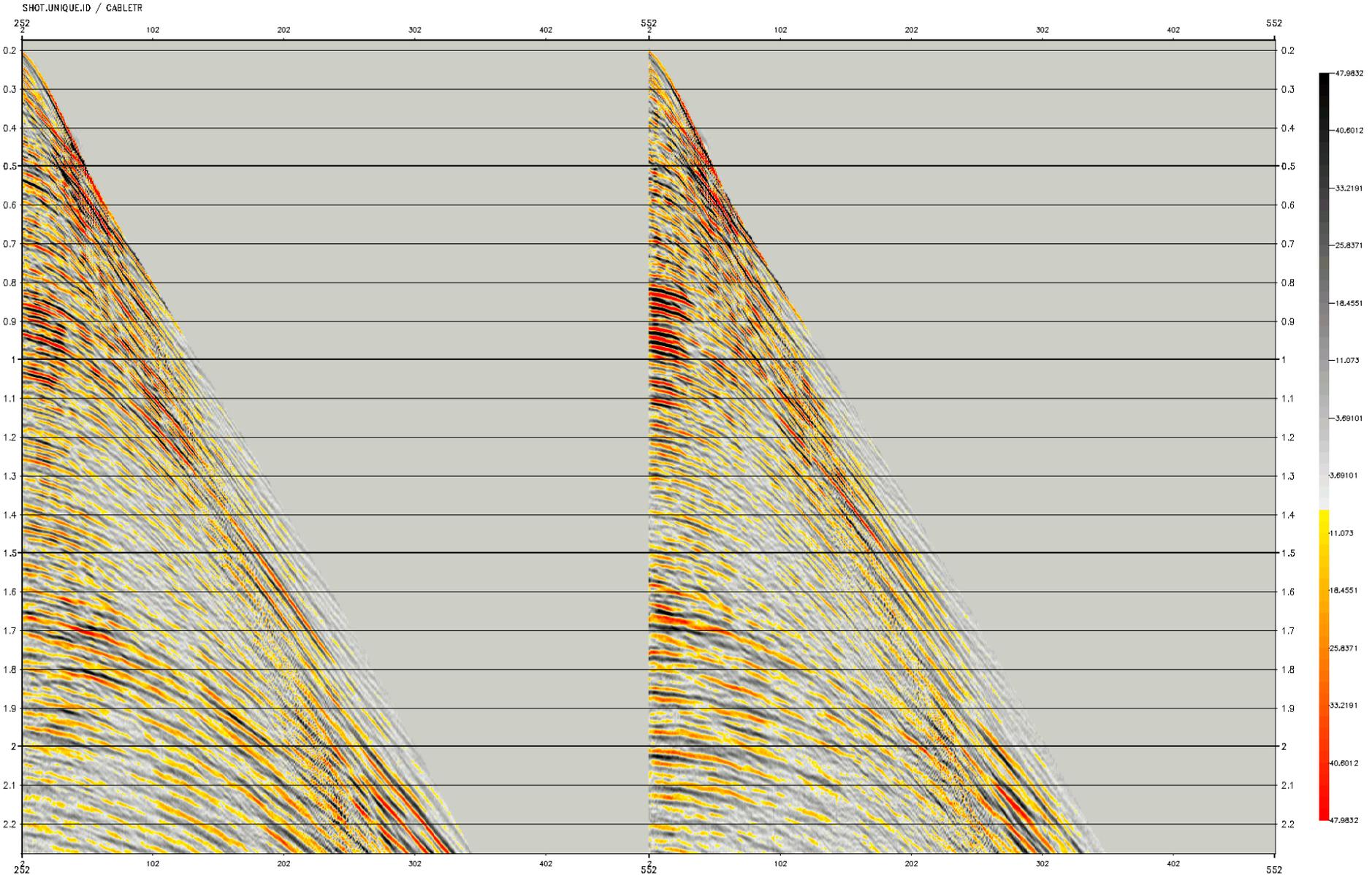
# Difference display – SRME + Tau-P (test 3) Top View

1378s11 notp sht-1378s11 srlp sht



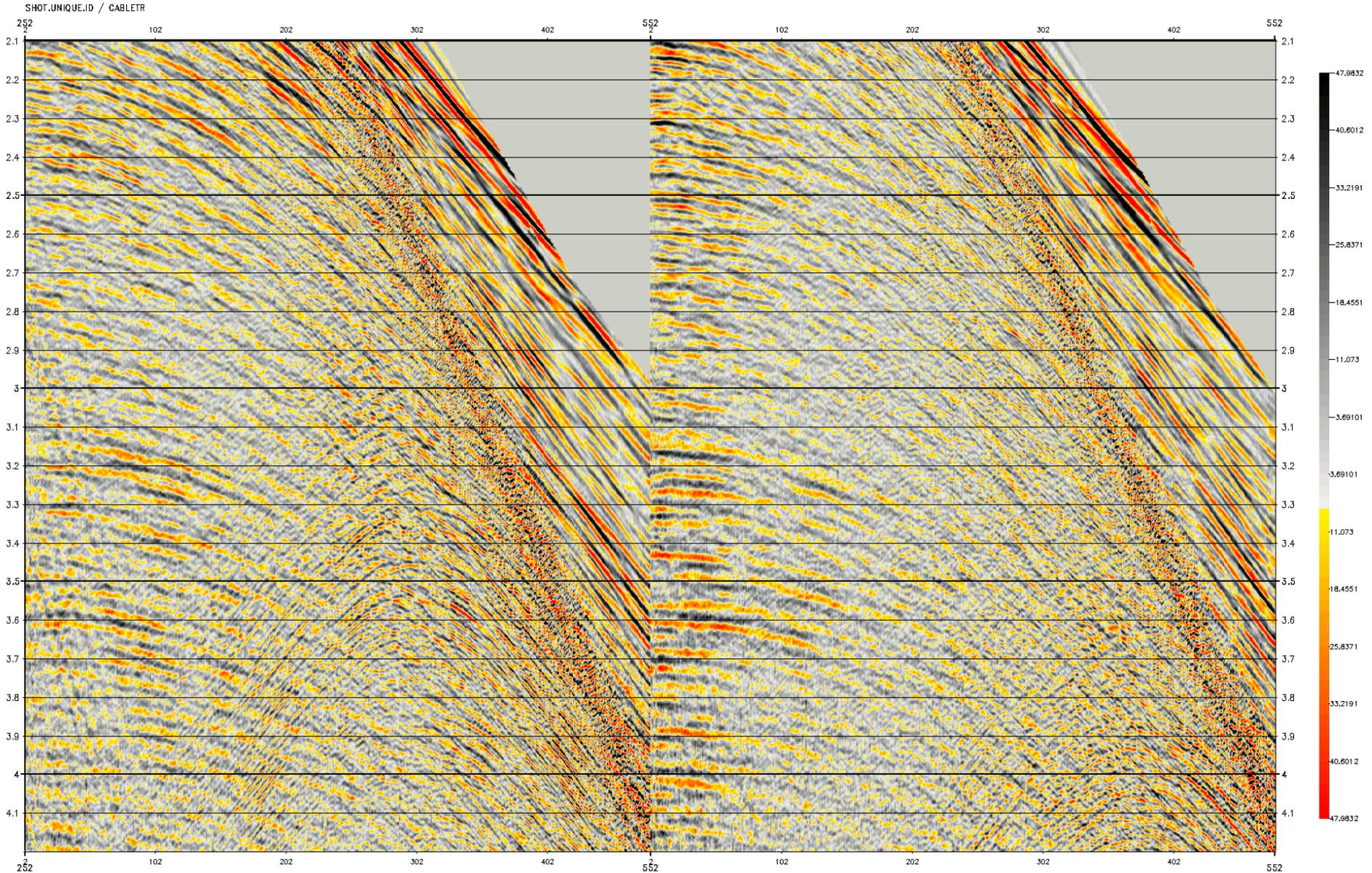
# Difference display Tau-P + SRME (test 4) Top View

1378s11 no1p sh1-1378s11 lpsr2 sh1



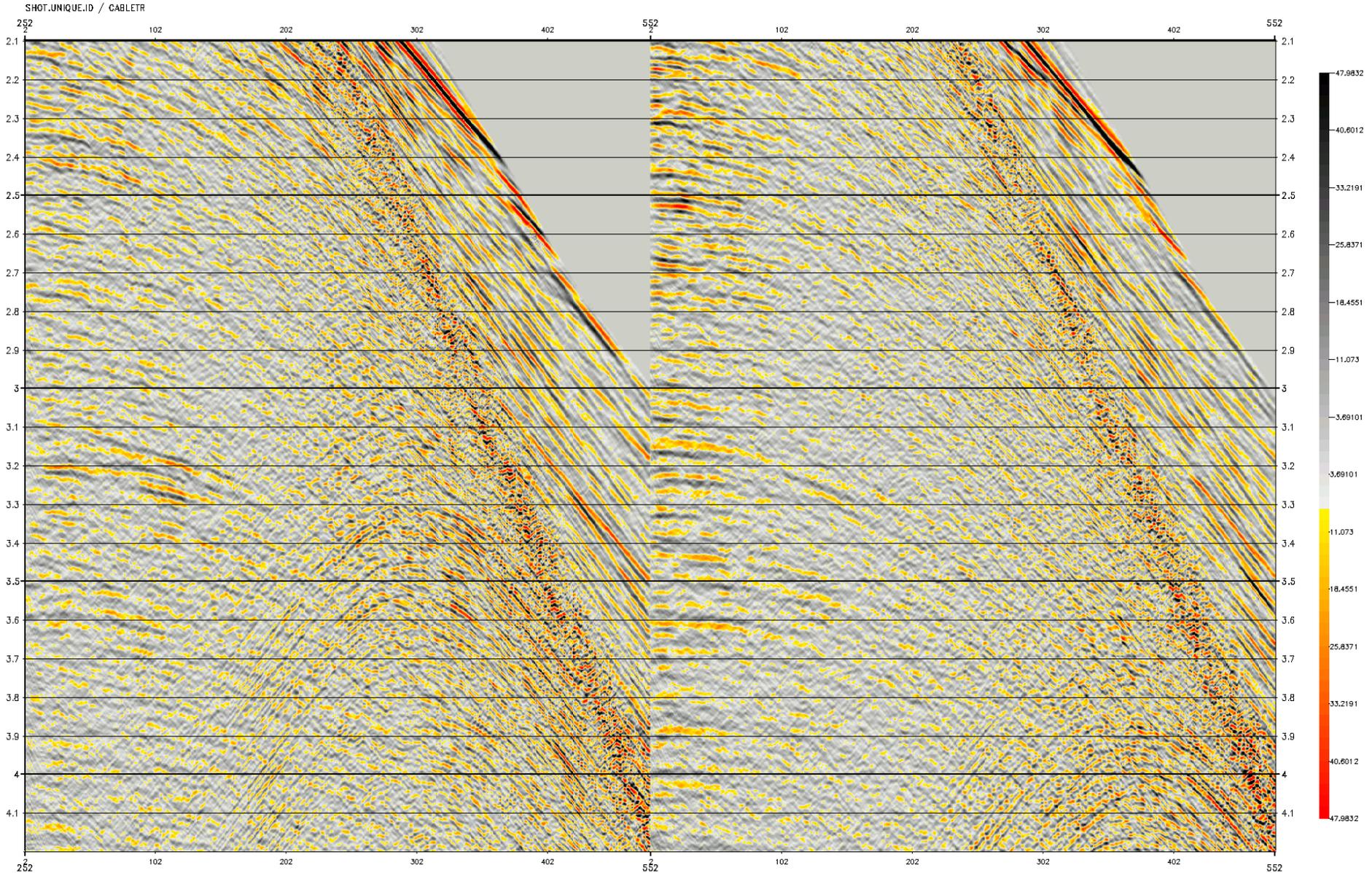
# Input – Bottom View

Tango:vegas:spr224ws:s5631ap:1378s11 notp sht.1



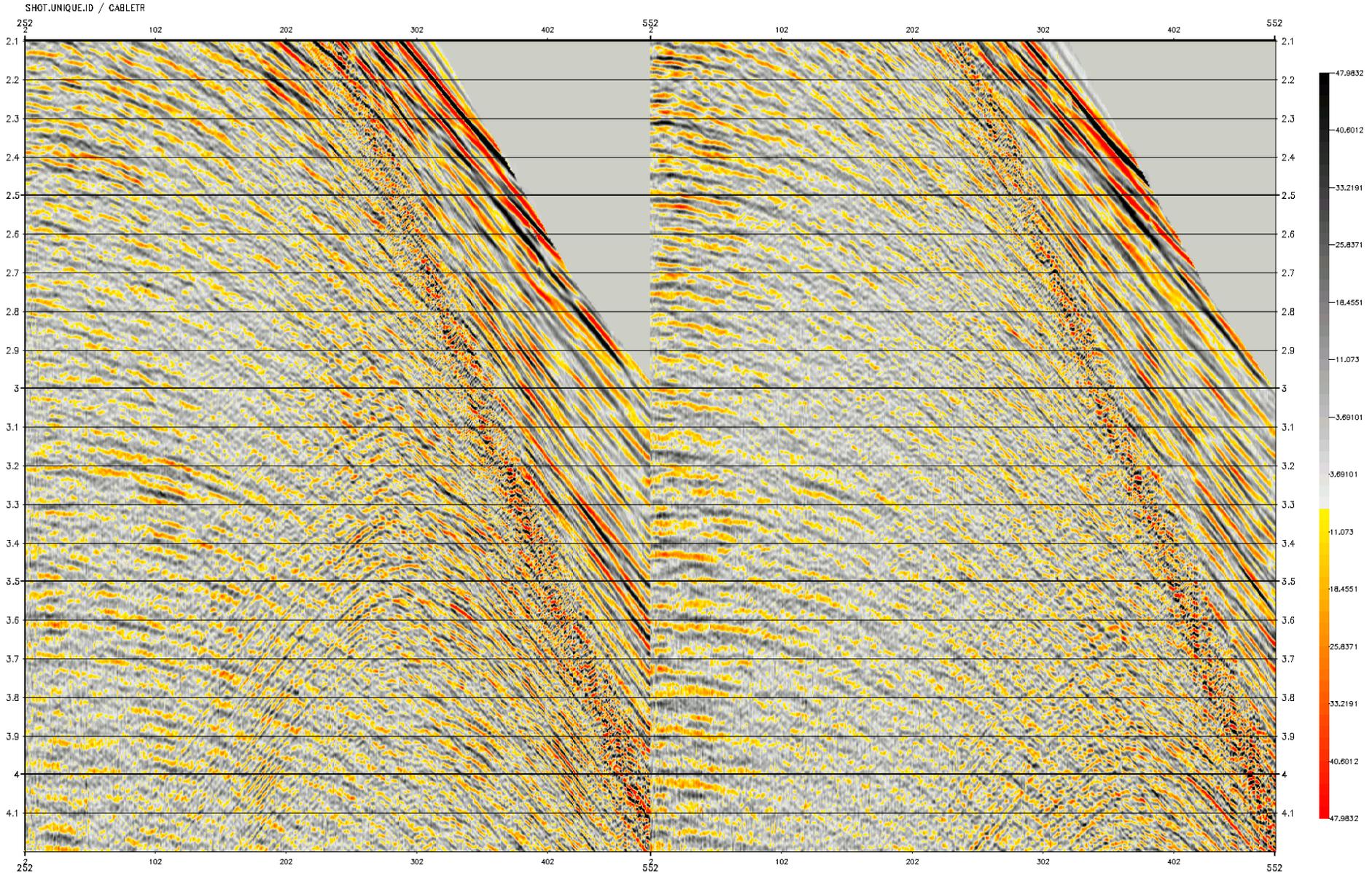
# With Tau-P (test 1) – Bottom View

Tango:vegas:spr224ws:s5631ap:1378s11 taup sht.1



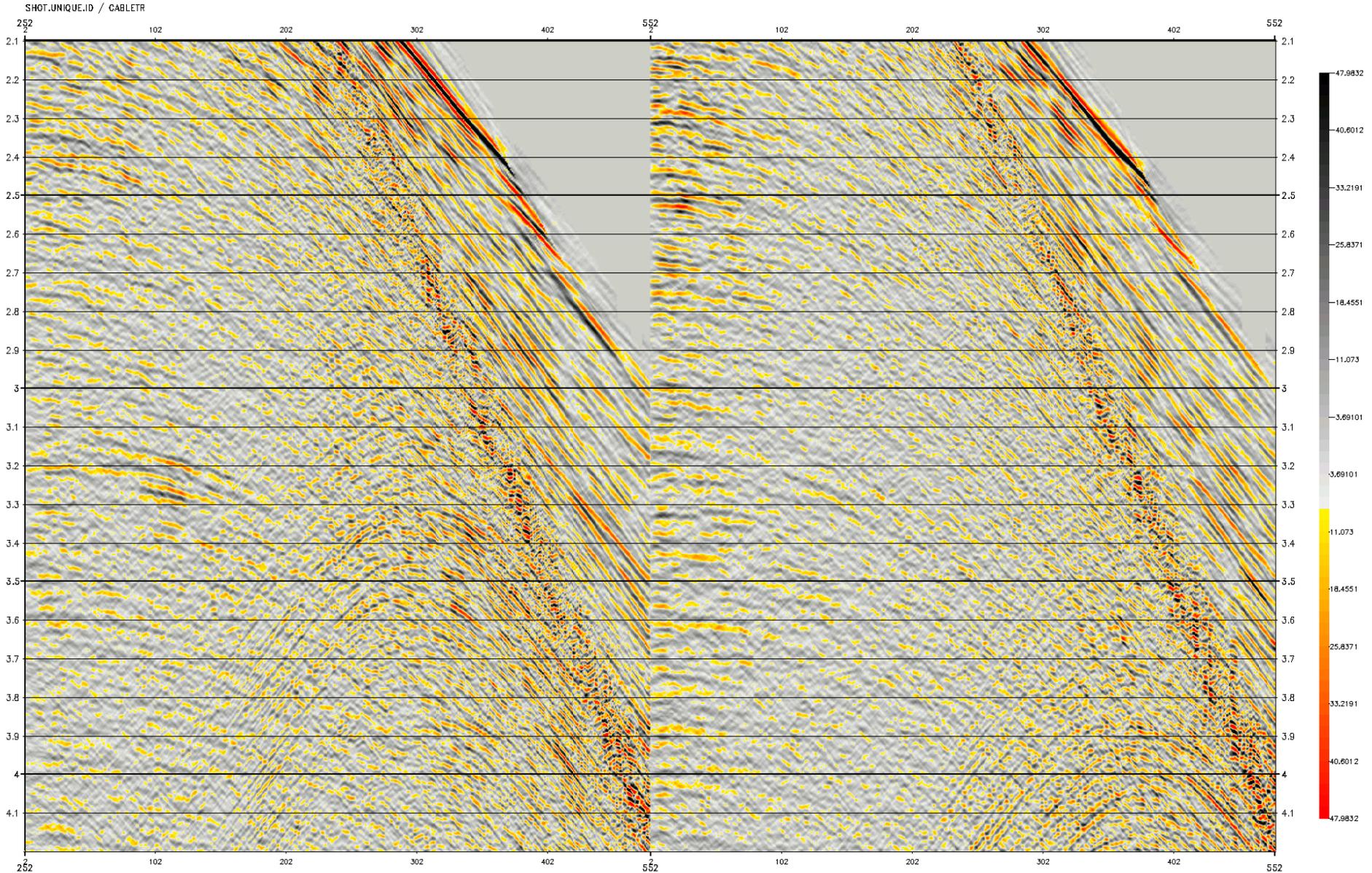
# With SRME (test 2) – Bottom View

Tango:vegas:spr224ws:s563lap:1378s11 sr2 sh1.1



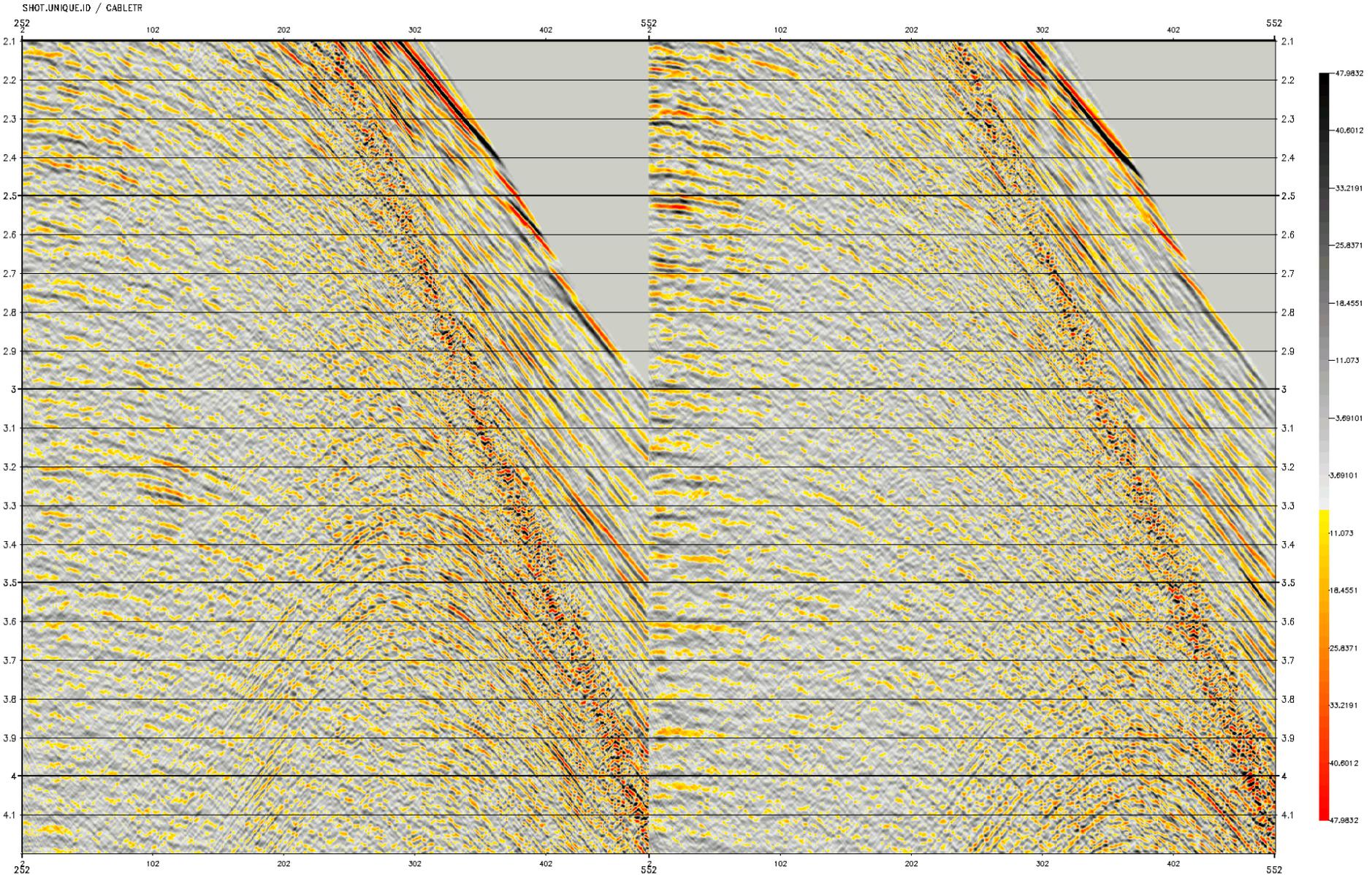
# With SRME + Tau-P (test 3) – Bottom View

Tango:vegas:spr224ws:s563lap:1378s11 srtp sht.1



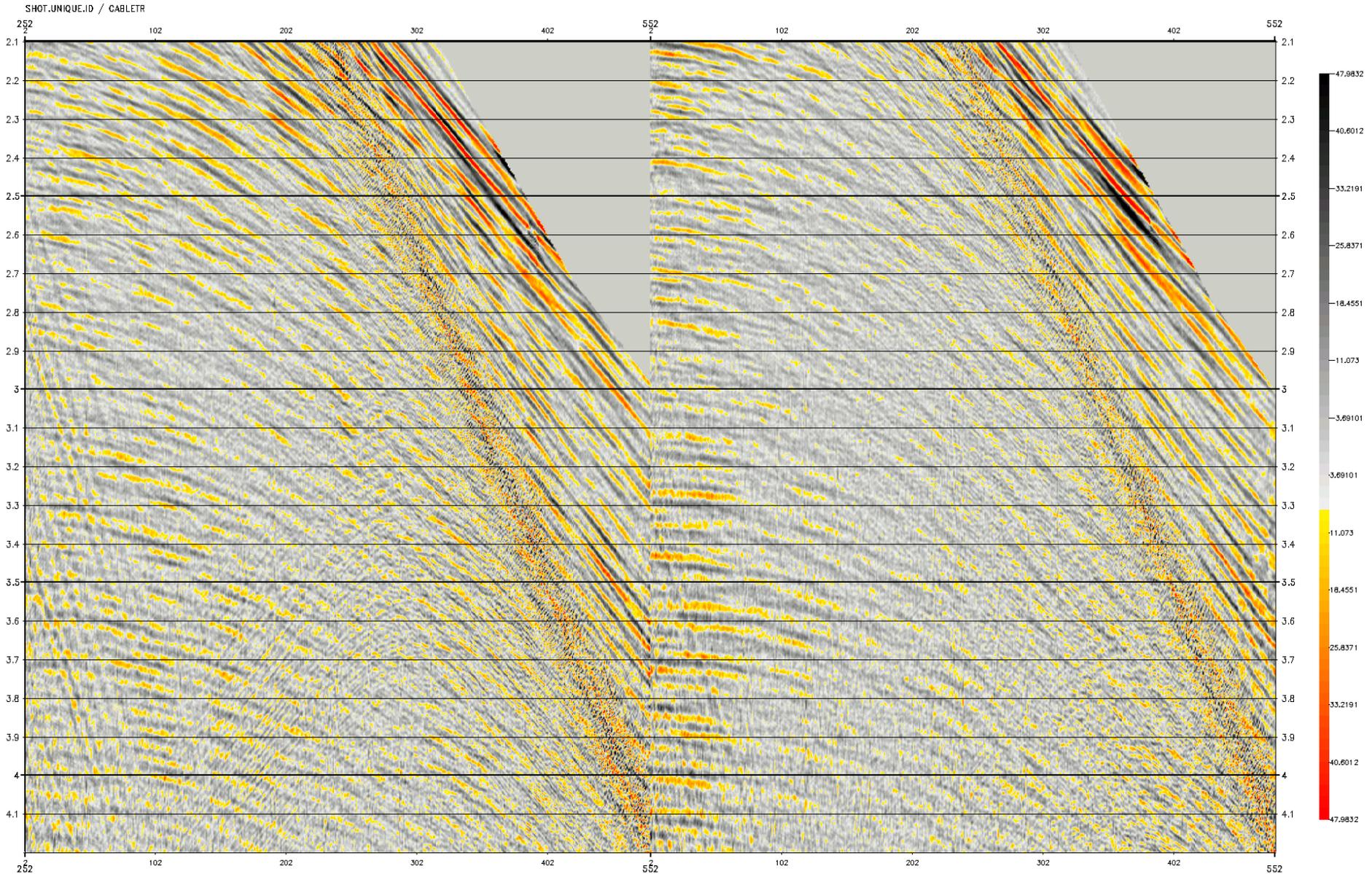
# With Tau-P + SRME (test 4) – Bottom View

Tango:vegas:spr224ws:s563lap:1378s11 lpsr2 shf.1



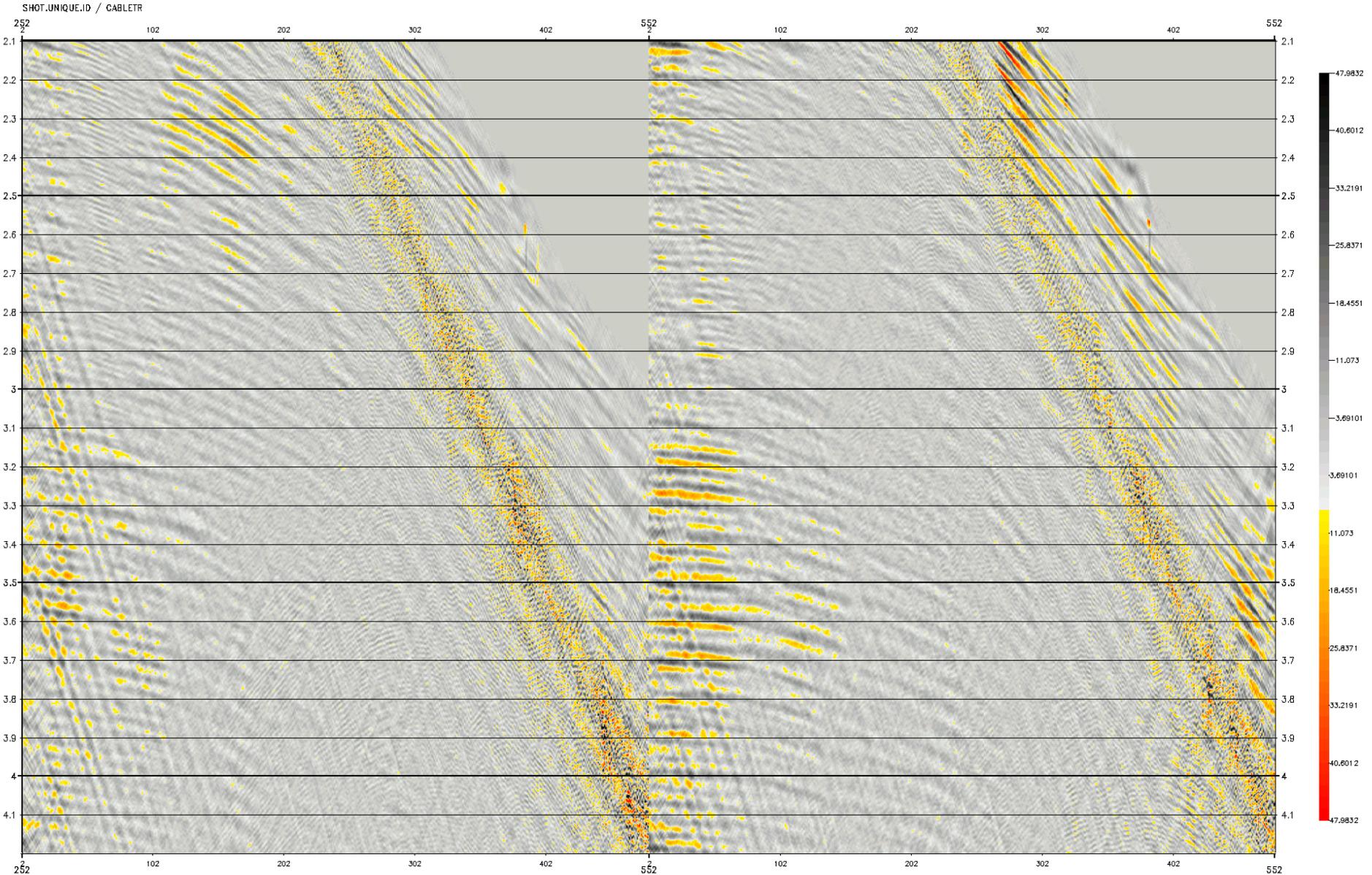
# Difference display -Tau-P (test 1) Bottom View

1378s11 notp sht-1378s11 taup sht



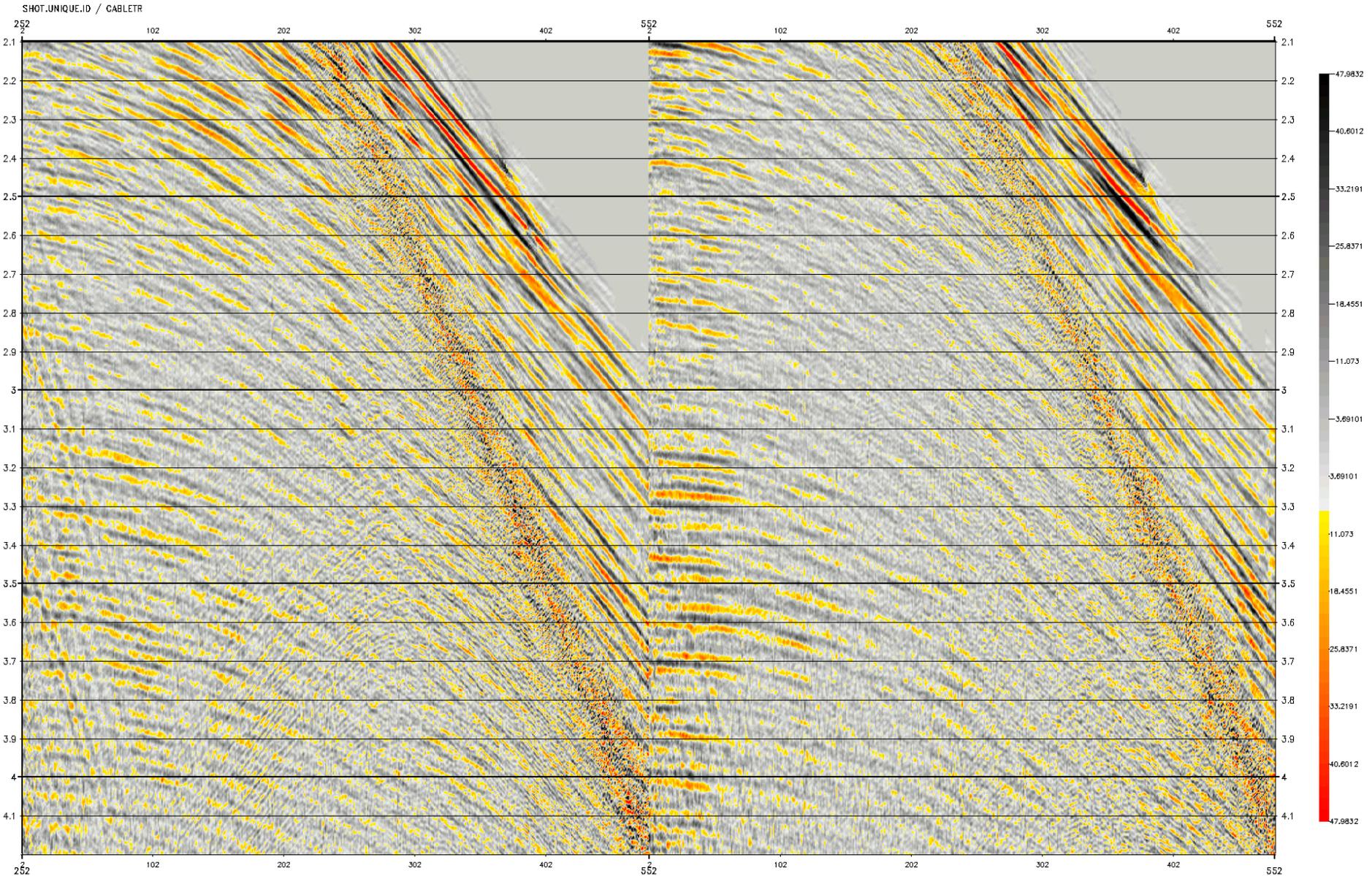
# Difference display – SRME (test 2) Bottom View

1378s11 n0lp sht-1378s11 sr2 sht



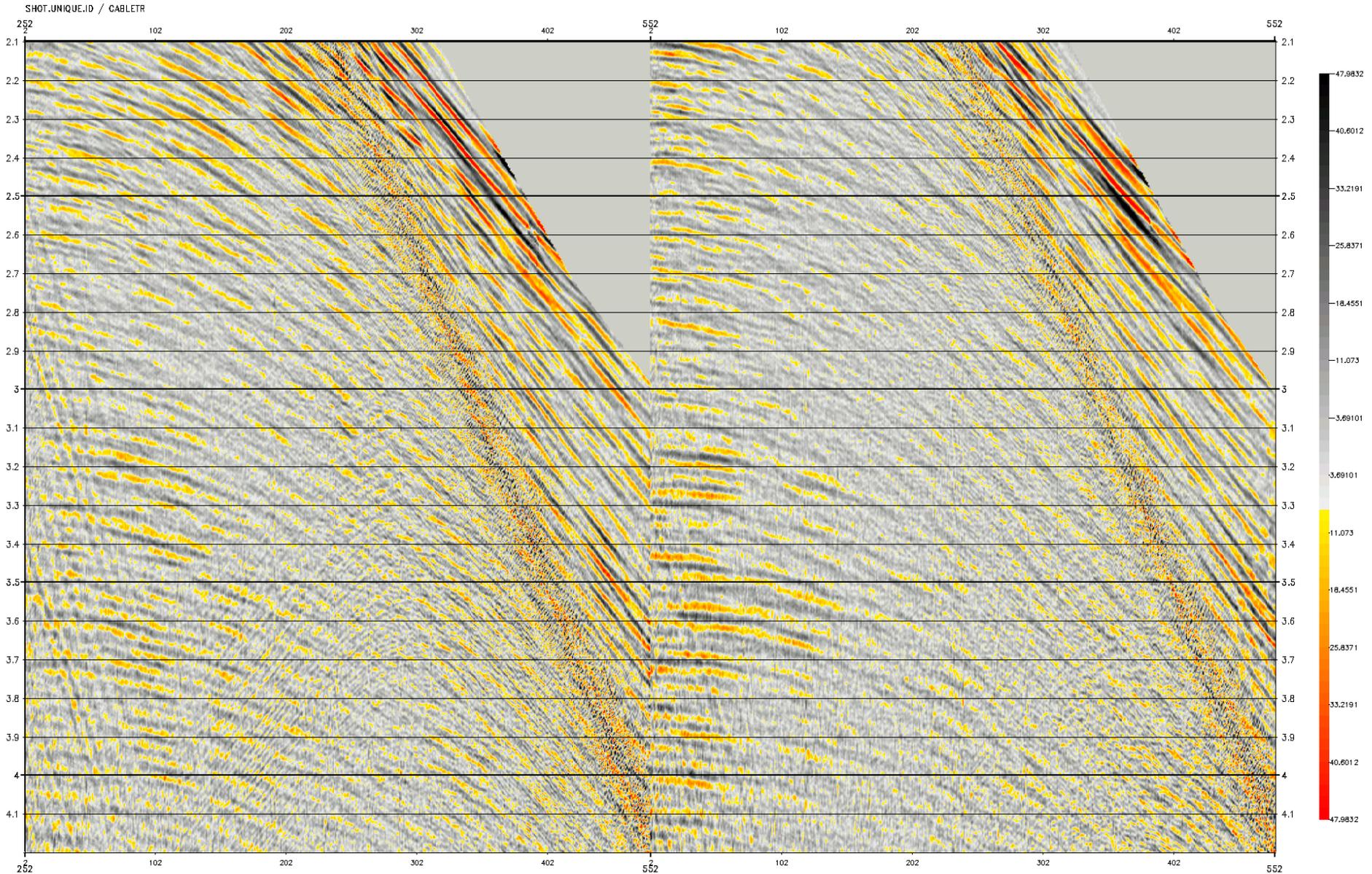
# Difference display – SRME + Tau-P (test 3) Bottom View

1378s11 nstp sht-1378s11 srtp sht



# Difference display Tau-P + SRME (test 4) Bottom View

1378s11 noIp sh1-1378s11 lpsr2 sh1



# 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 applying SRME on the data.