

# Tap Oil T/47P 3D PSTM

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High resolution radon demultiple test  
Outer cable

# 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
- Tau-P de-convolution, operator length 280 and gap 24ms
- First pass velocity analysis on 1km x 1km grid
- NMO with QC'ed velocity
- Alternate trace drop with K – filter
- Interpolate one trace in cdp domain
- High resolution radon demultiple
- Remove the interpolated trace
- Gathers and stack display

# Test Summary

- Four tests have been conducted

- **Test 1:**

- Transform range: -600 to 3100
- Frequency range: 3 to 90 Hz
- Time variant protection range:

Time	Cut
0	-600 to 600
1000	-600 to 500
2000	-600 to 420

- Start time: No demult applied from 0 to 700ms  
Demult ramped from 700 to 1000ms

# Test Summary

- Test 2:

- Transform range: -600 to 3100
- Frequency range: 3 to 90 Hz
- Time variant protection range:

Time	Cut
0	-600 to 500
1000	-600 to 420
2000	-600 to 340

- Start time: No demult applied from 0 to 700ms  
Demult ramped from 700 to 1000ms

# Test Summary

- Test 3:

- Transform range: -600 to 3100
- Frequency range: 3 to 90 Hz
- Time variant protection range:

Time	Cut
0	-600 to 500
1000	-600 to 360
2000	-600 to 280

- Start time: No demult applied from 0 to 700ms  
Demult ramped from 700 to 1000ms

# Test Summary

- **Test 4:** (Cut is same as test 2. Difference is in start time)

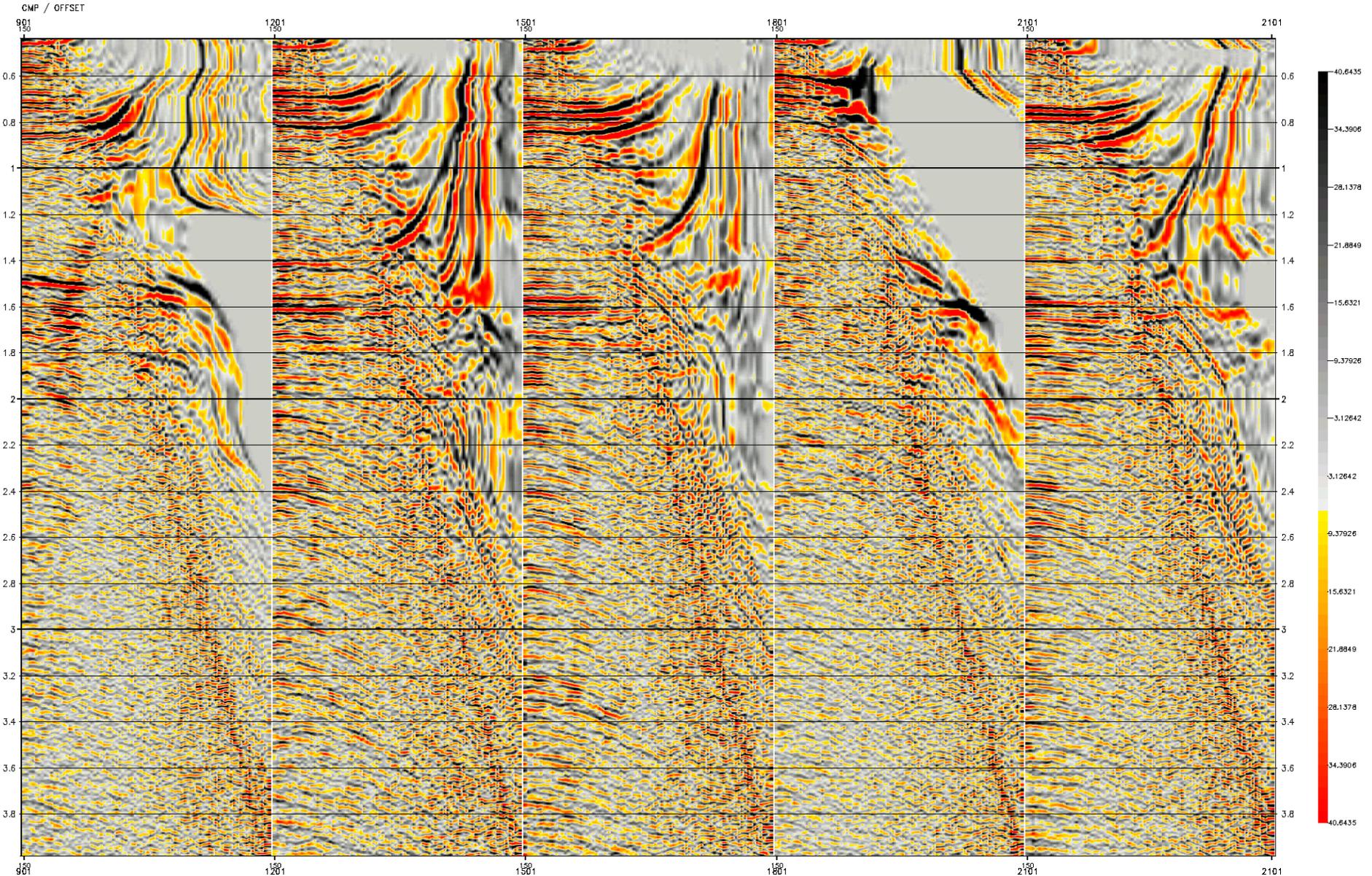
- Transform range: -600 to 3100
- Frequency range: 3 to 90 Hz
- Time variant protection range:

Time	Cut
0	-600 to 500
1000	-600 to 420
2000	-600 to 340

- Start time: No demult applied from 0 to 500ms  
Demult ramped from 500 to 800ms

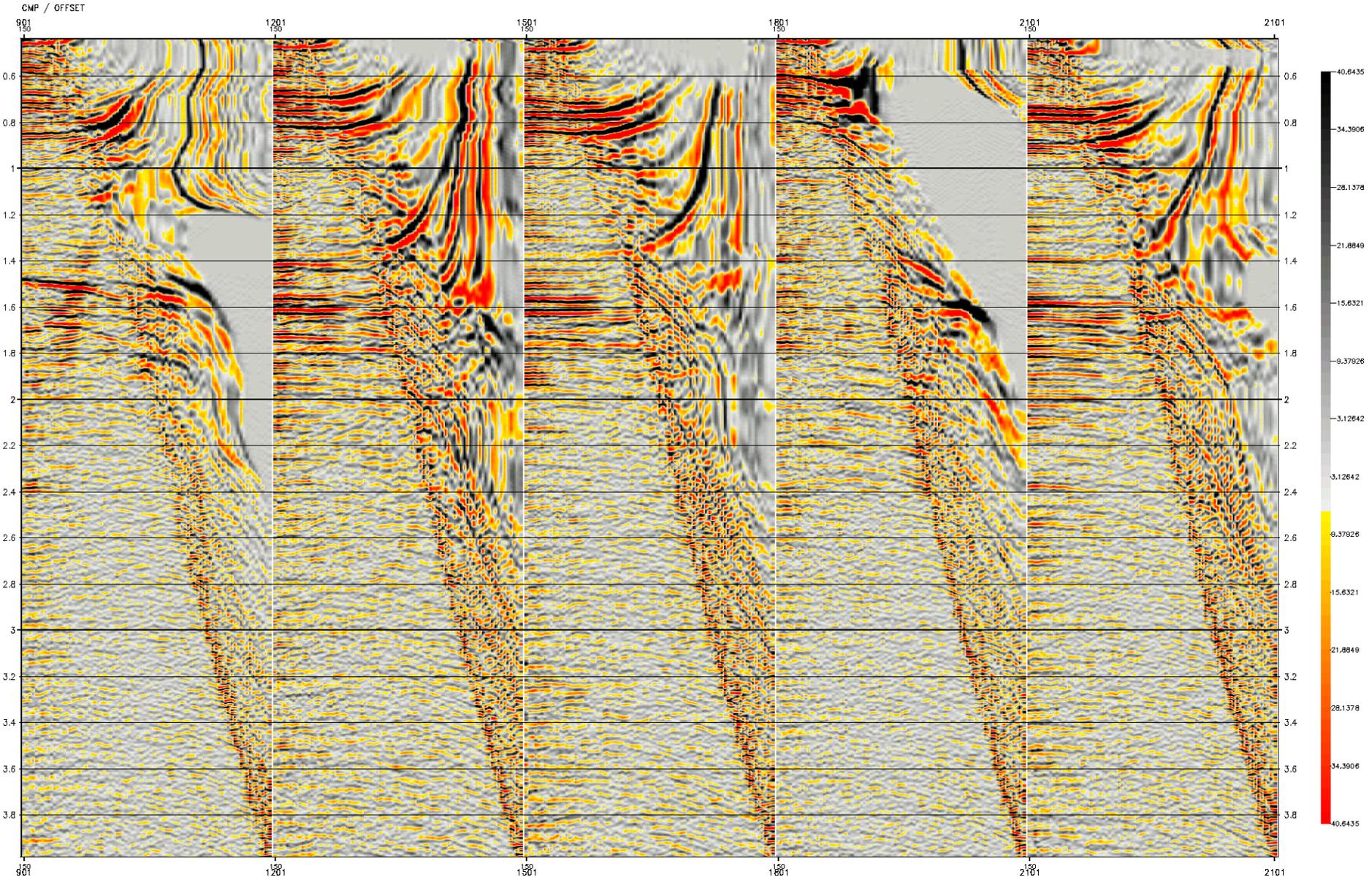
# Gathers **without** radon

Tango::spr205pc:s563top:o1198 knoxrm.1



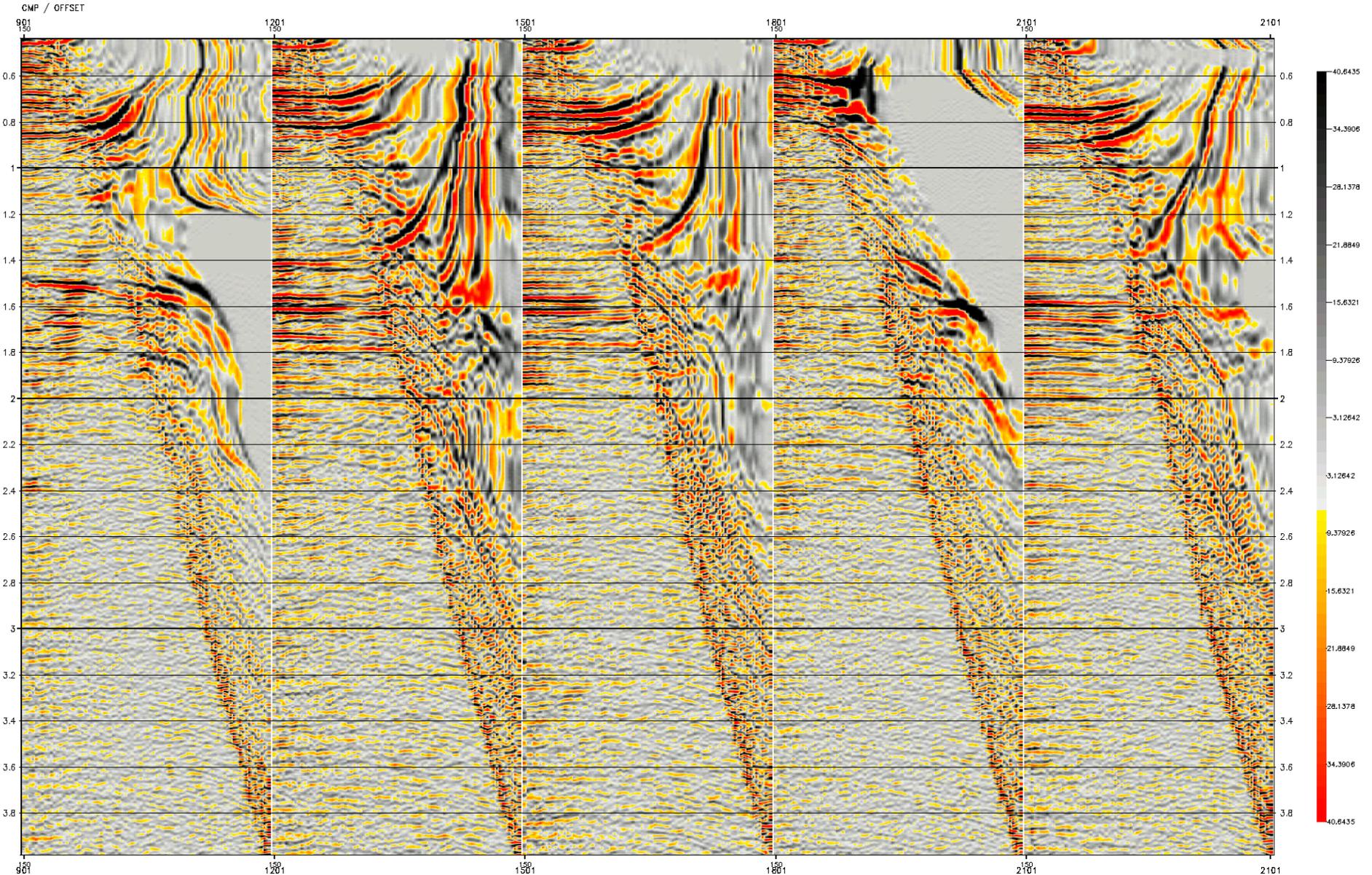
# Gathers with radon – Test 1

Tango::spr205pcis563tap:oxrm Ist22a i.1



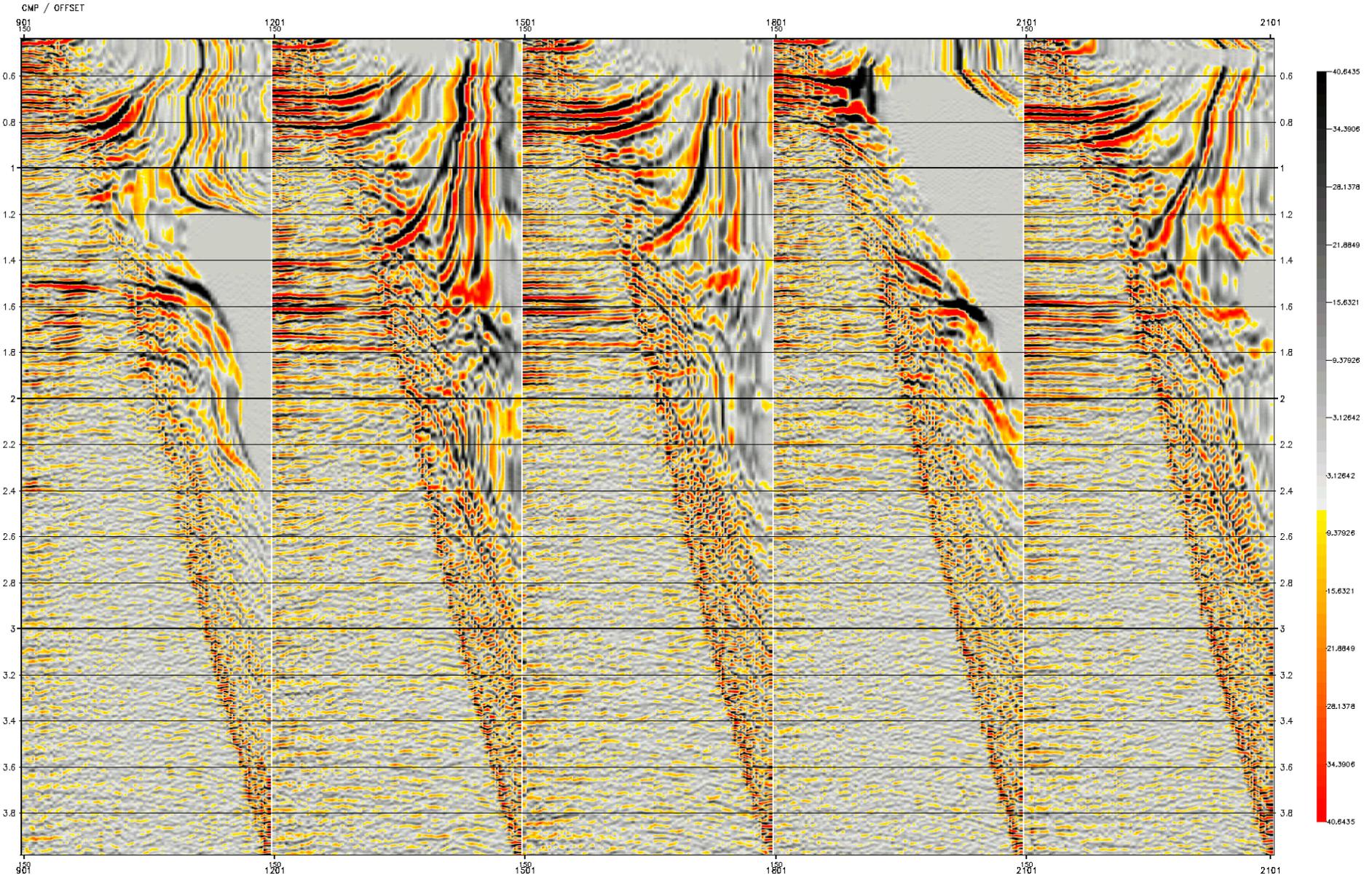
# Gathers with radon – Test 2

Tango::spr205pcis563tap:oxrm Ist22b i.1



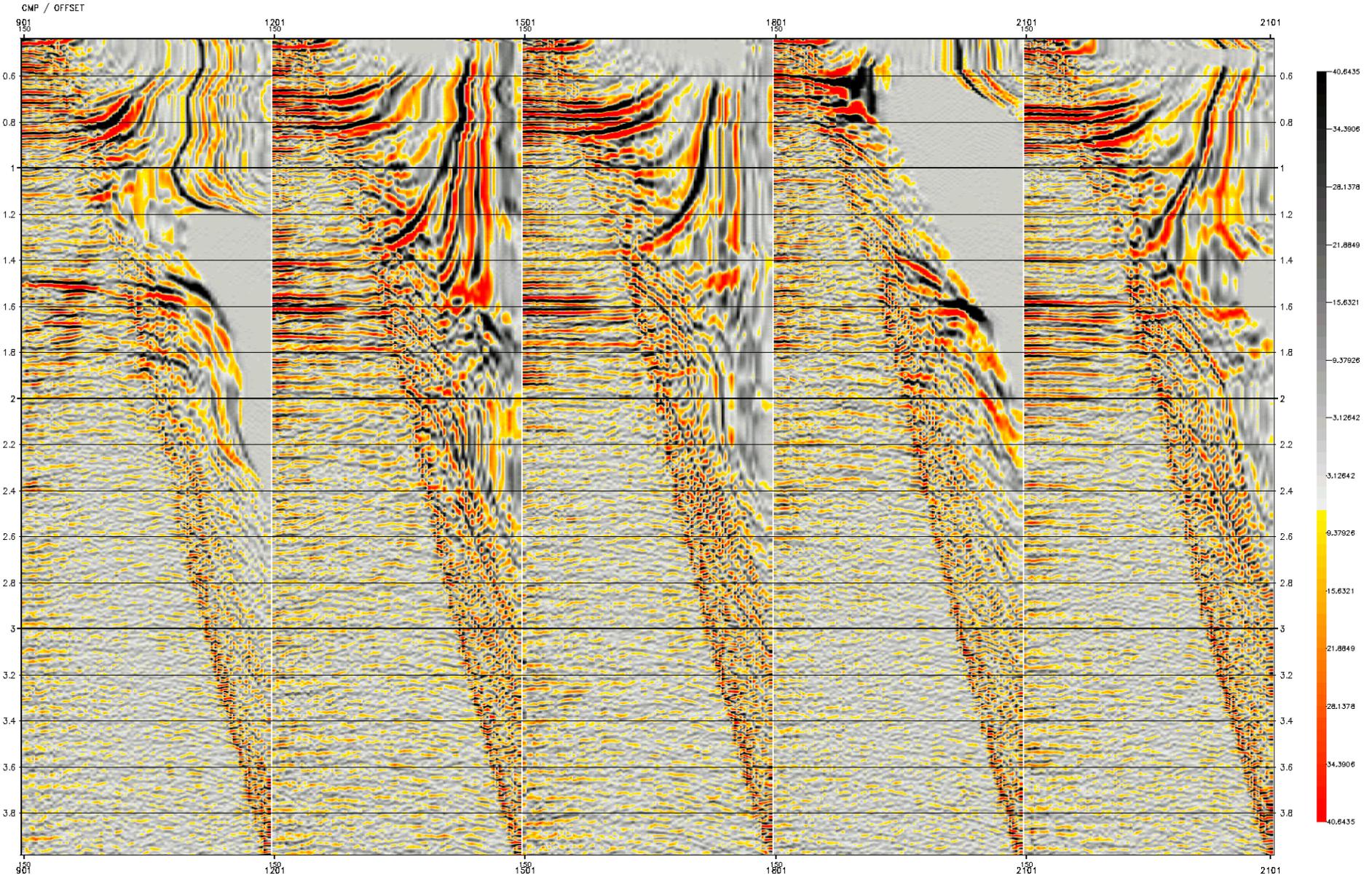
# Gathers with radon – Test 3

Tango::spr205pcis563tap:oxrm Ist22e i.1



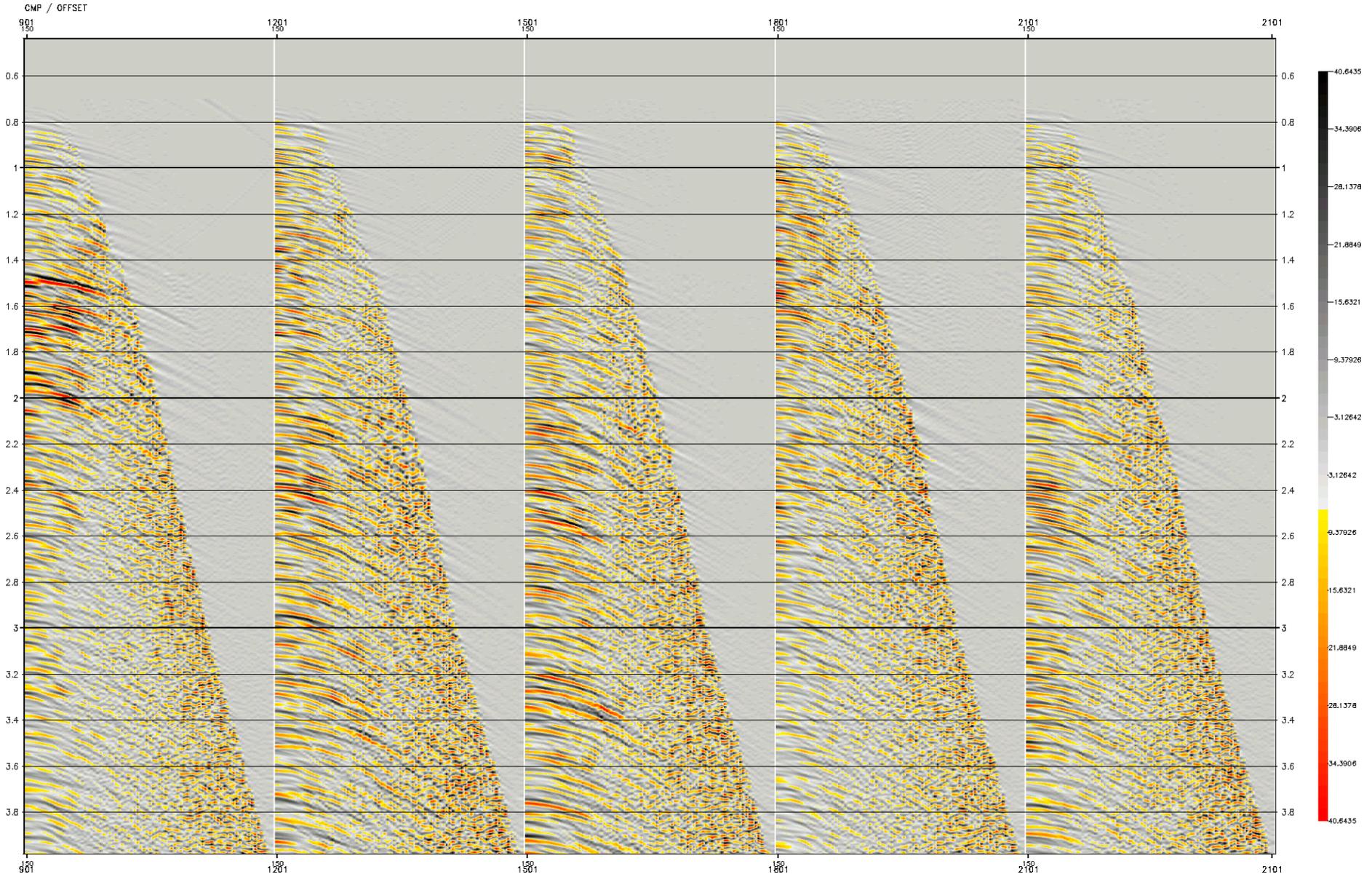
# Gathers with radon – Test 4

Tango::spr205pc:s5631ap:oxrm ts122b it.1



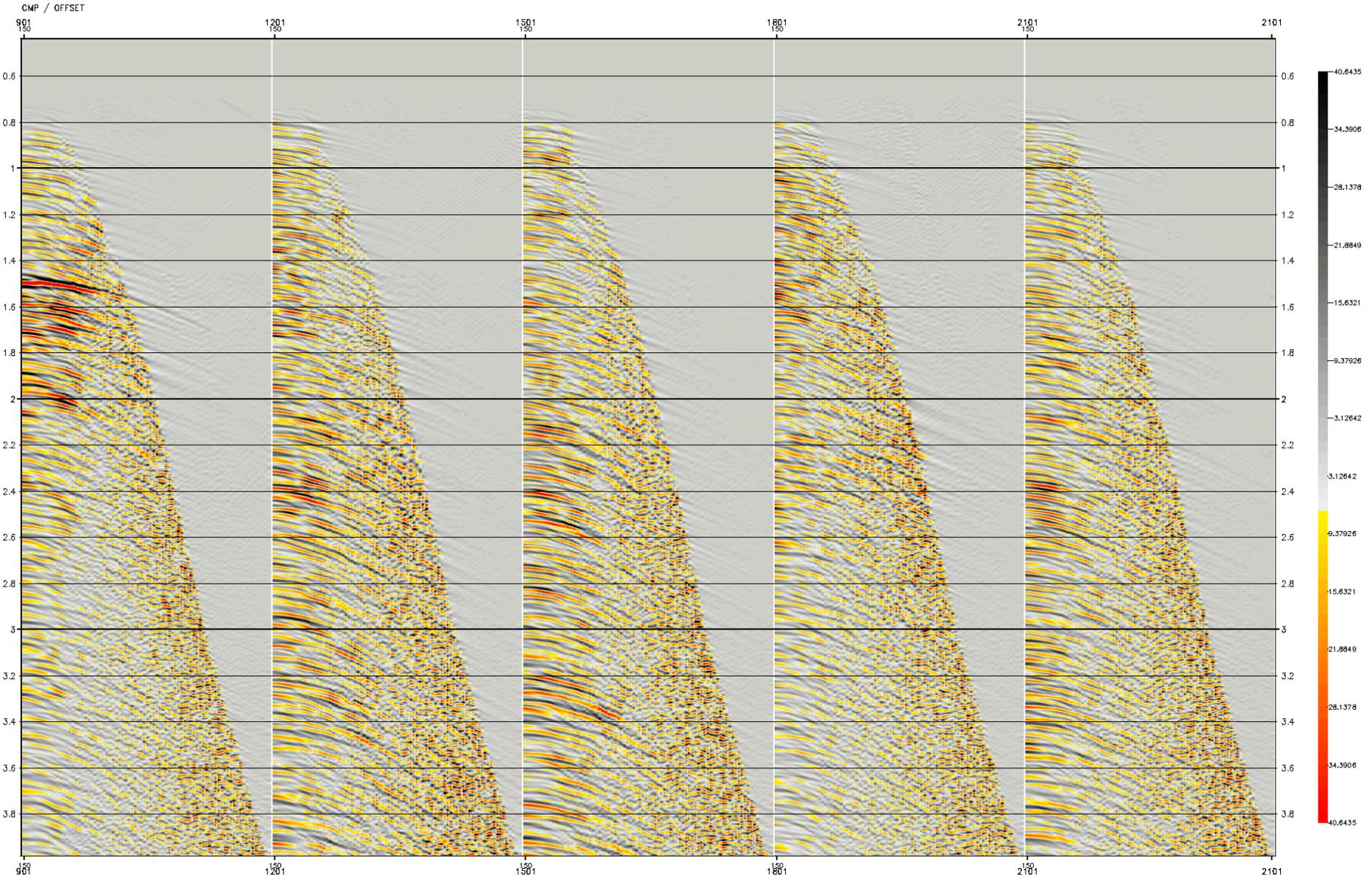
# Gathers: Difference display – Test 1

o1198 knoxrm-oxrm ts122e i



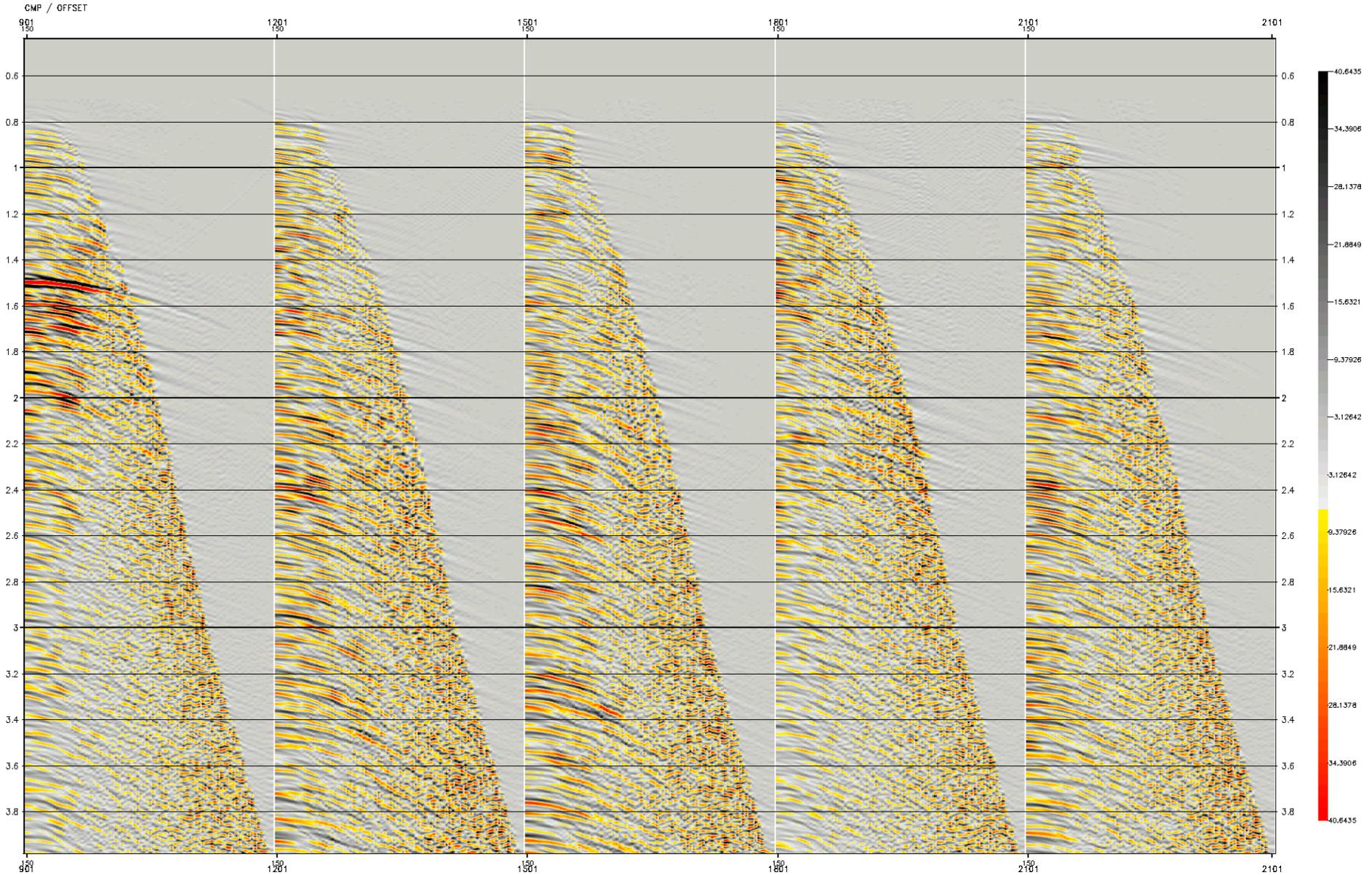
# Gathers: Difference display – Test 2

o1198 knoxrm-oxrm ts122b i



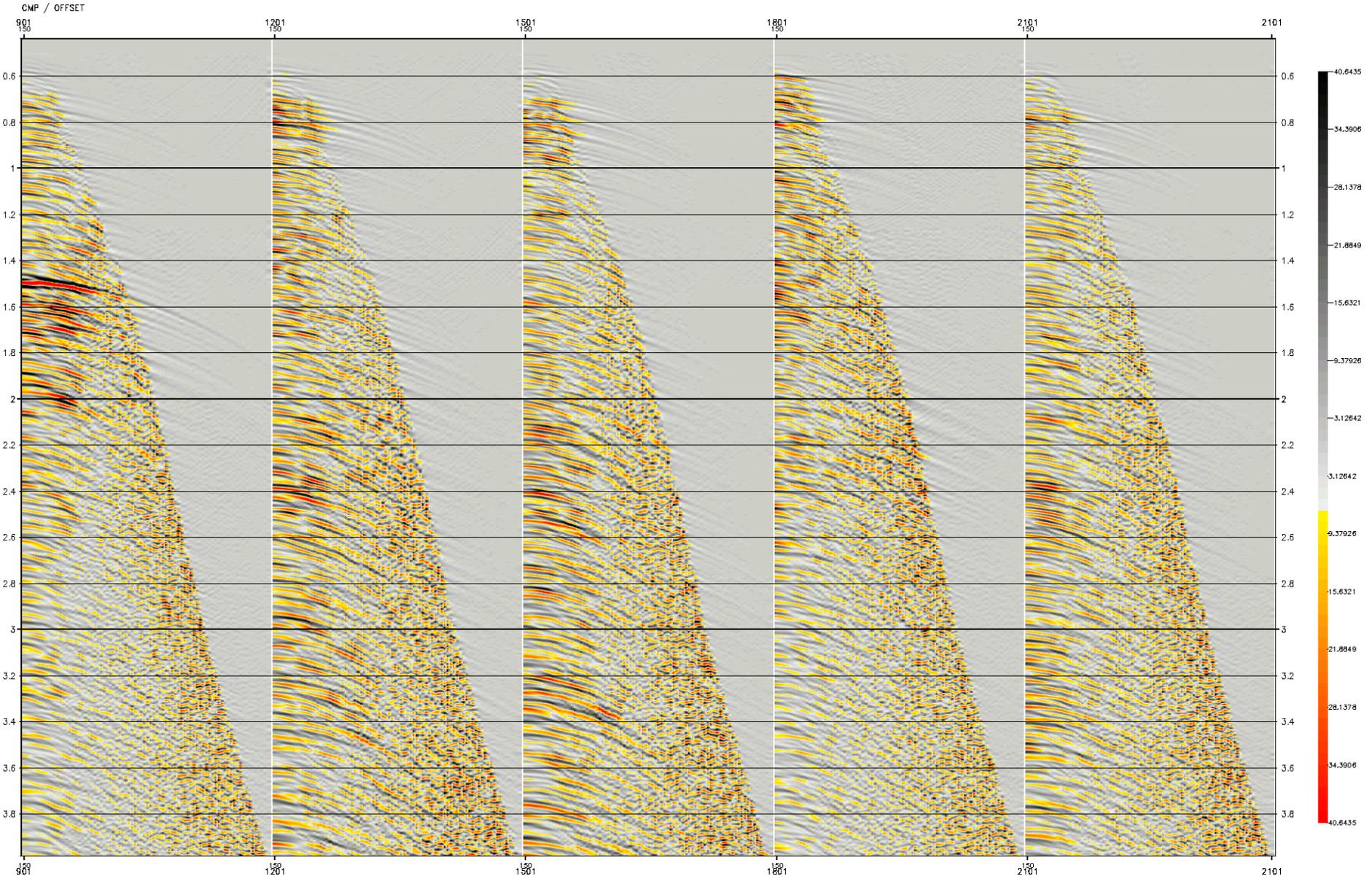
# Gathers: Difference display – Test 3

o1198 knoxrm-oxrm ts122c i



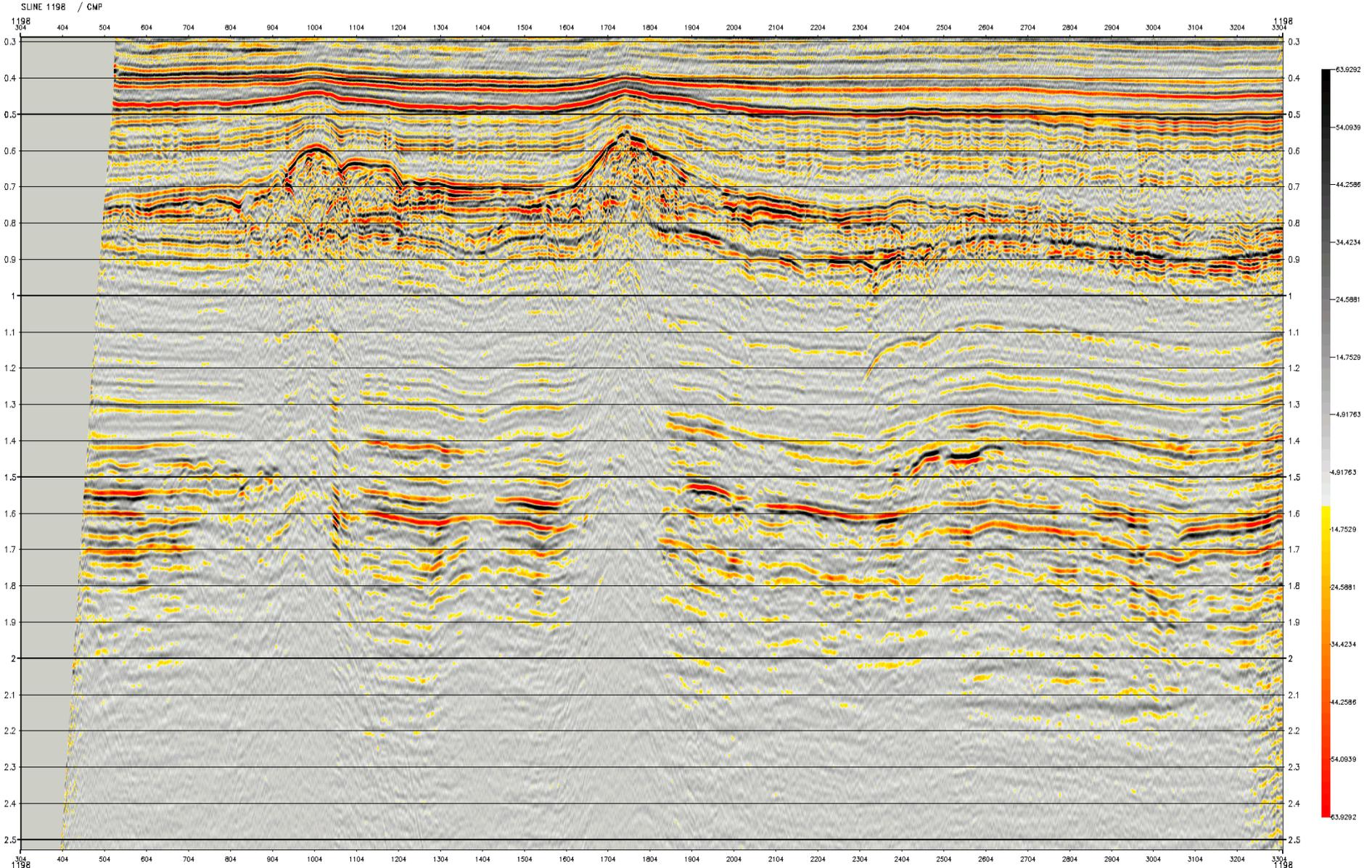
# Gathers: Difference display – Test 4

o1198 knoxrm-oxrm tst22b it



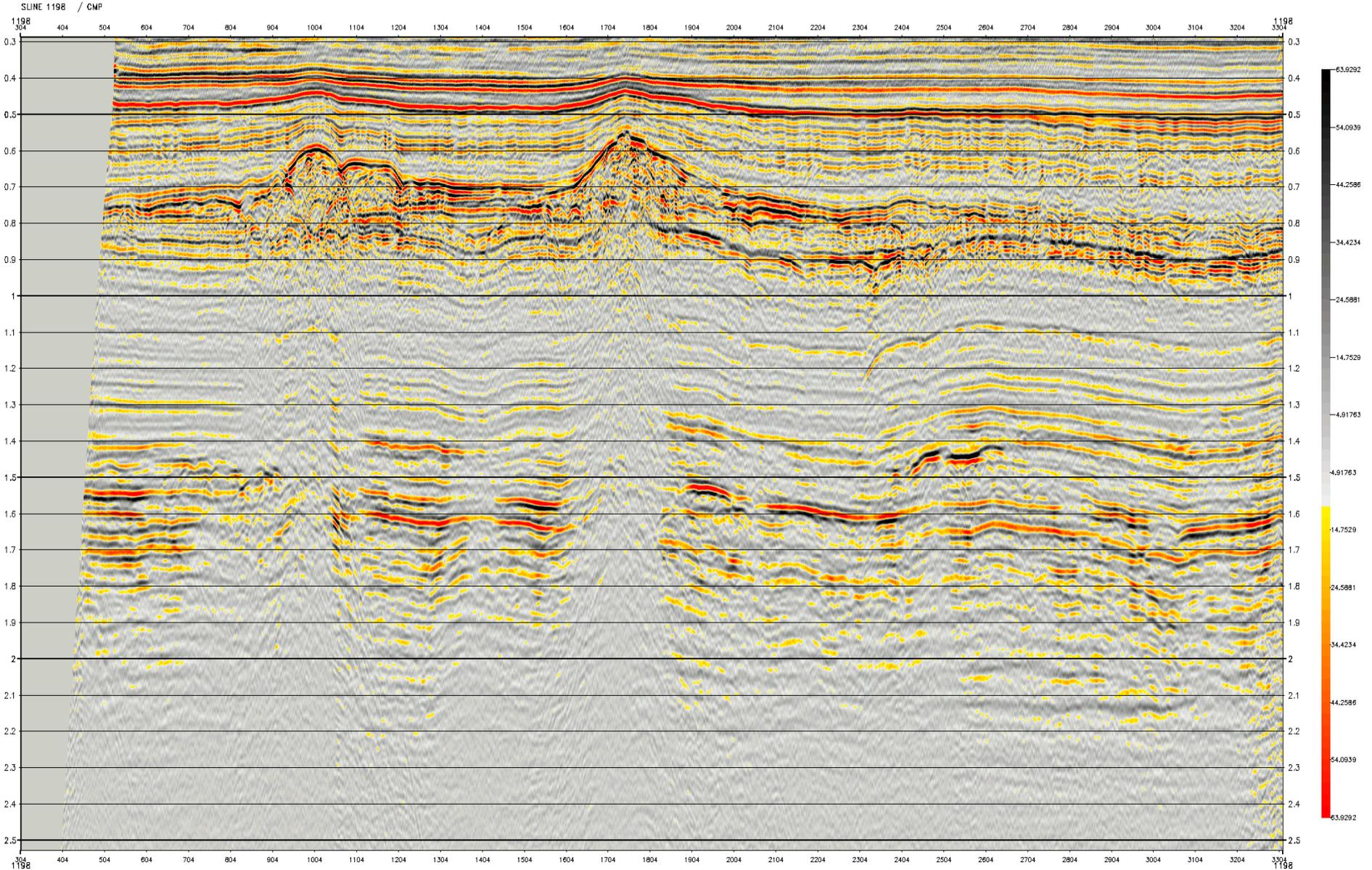
# Stack without radon

Tengo::spr205pc:s563tep:o1198 noxrm stk.1



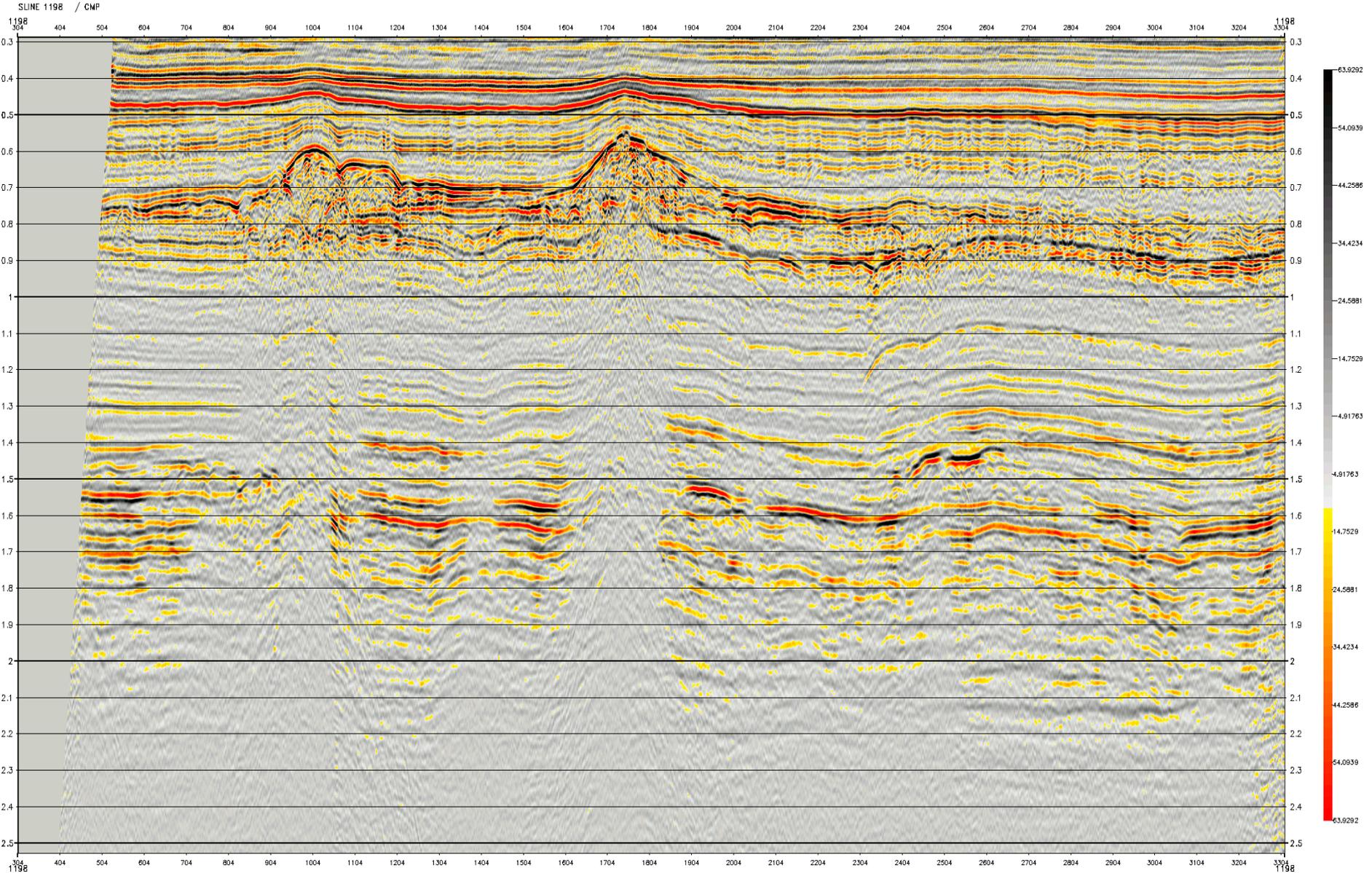
# Stack with radon – Test 1

Tango::spr205pc:s563lep:o1198 xrm mldstk2.1



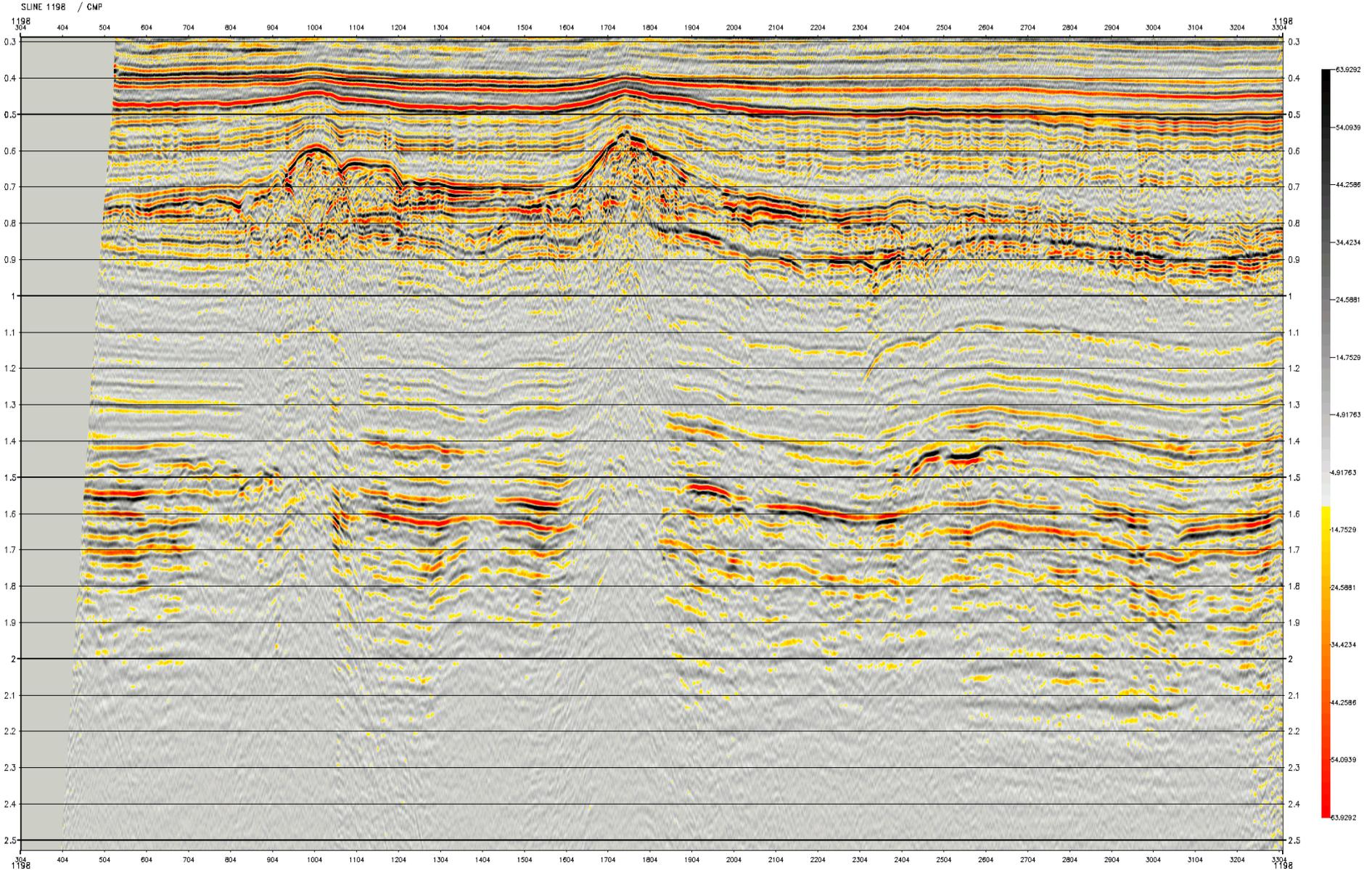
# Stack with radon – Test 2

Tango::spr205pc:s563lap:o1198 xrm modstk2.1



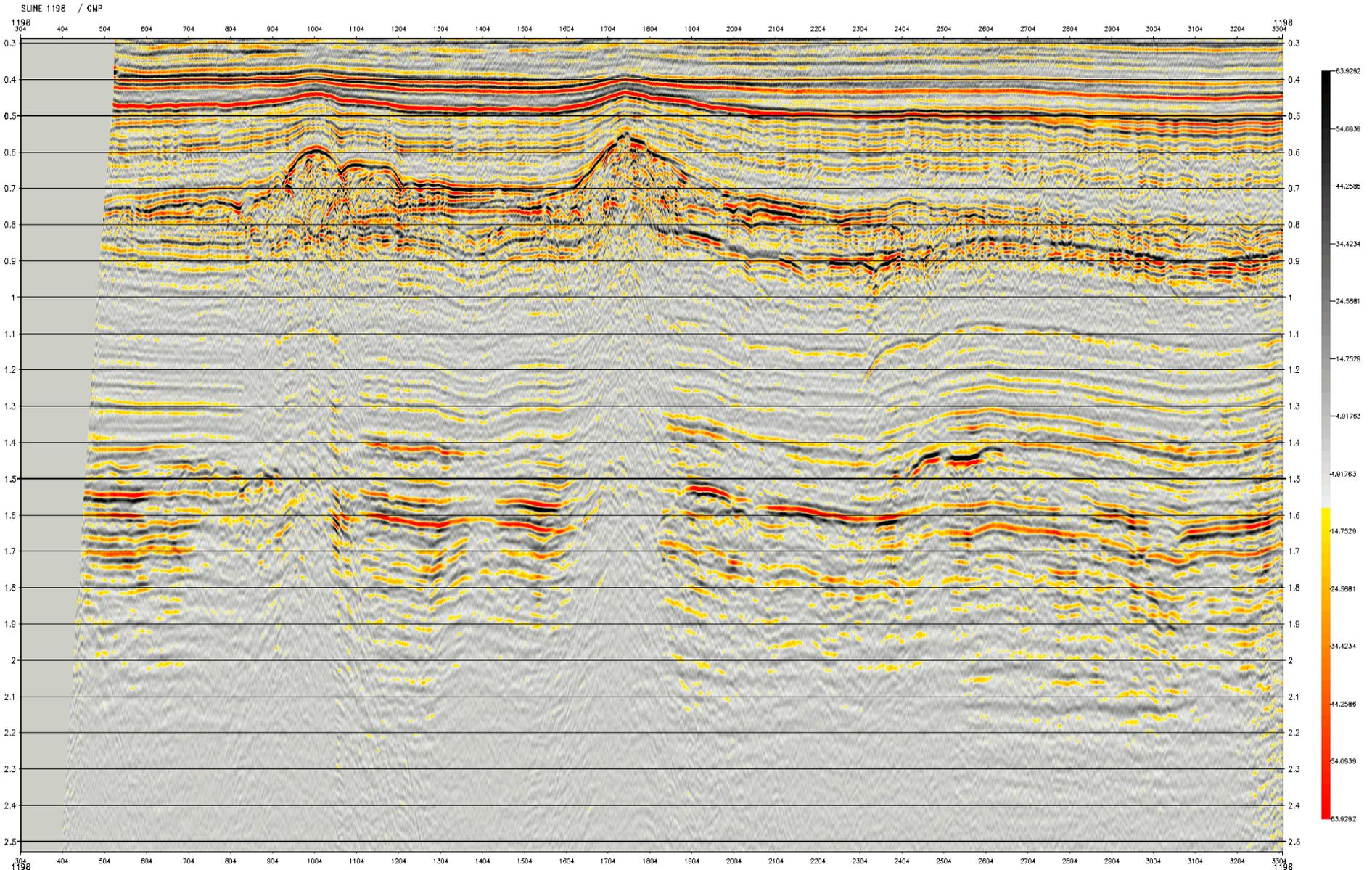
# Stack with radon – Test 3

Tango::spr205pc:s5631ep:o1198 xrm sevsk2.1



# Stack with radon – Test 4

Tango::spr205pc:s563lep:o1198xrm modstk21.1



# Stack: Difference display – Test 1

o1198 noxrm slk-o1198 xrm mldstk2



# Stack: Difference display – Test 2

o1198 noxrm stk-o1198 xrm modstk2



# Stack: Difference display – Test 3

o1198 noxrm slk-o1198 xrm sevstk2



# Stack: Difference display – Test 4

o1198 noxrm stk-o1198xrm modstk2f

