

Tap Oil T/47P 3D PSTM



High resolution radon demultiple test
Inner 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)

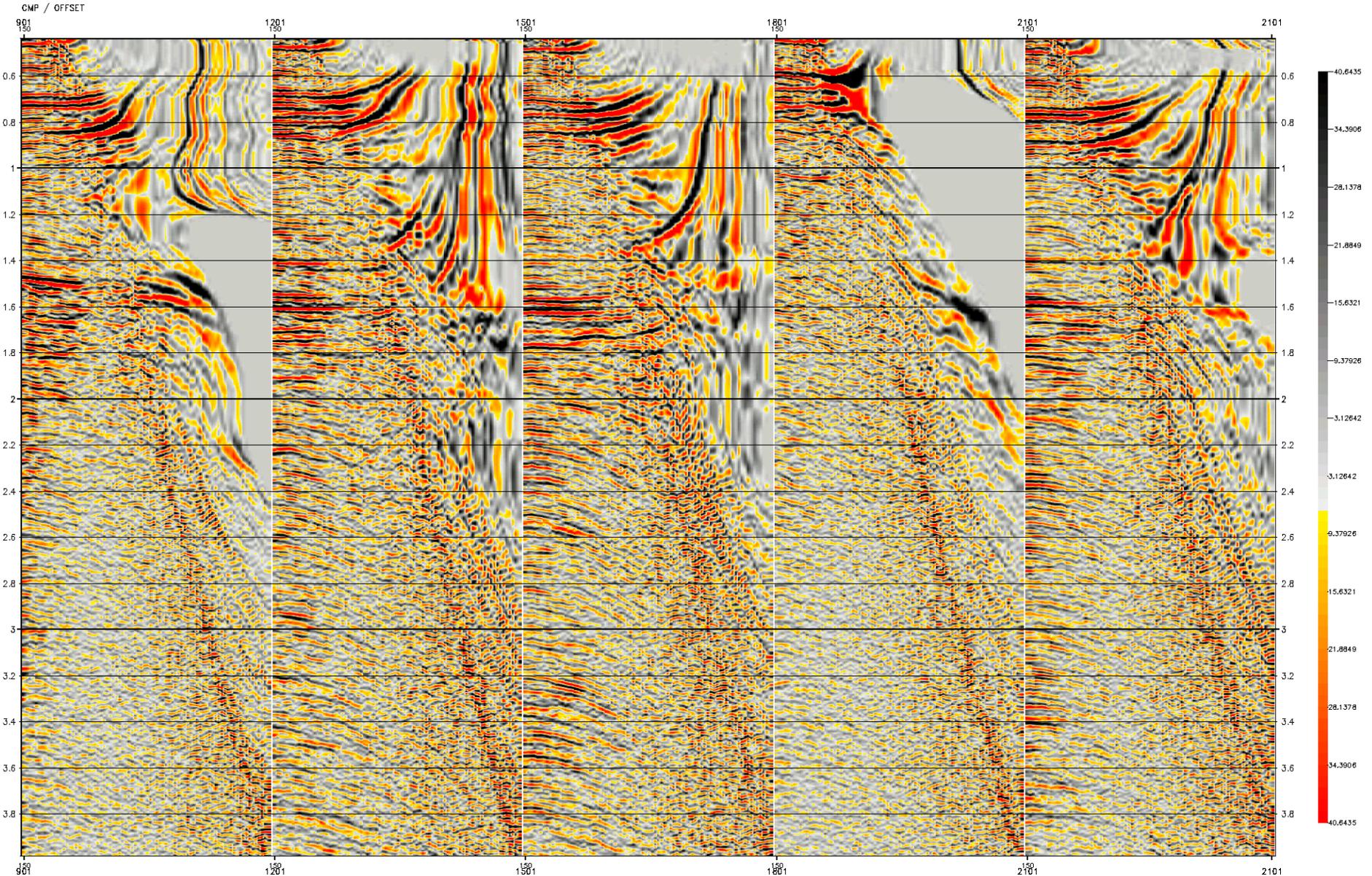
- Transform range: -600 to 3100
- Frequency range: 3 to 90 Hz
- Time variant protection range:

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

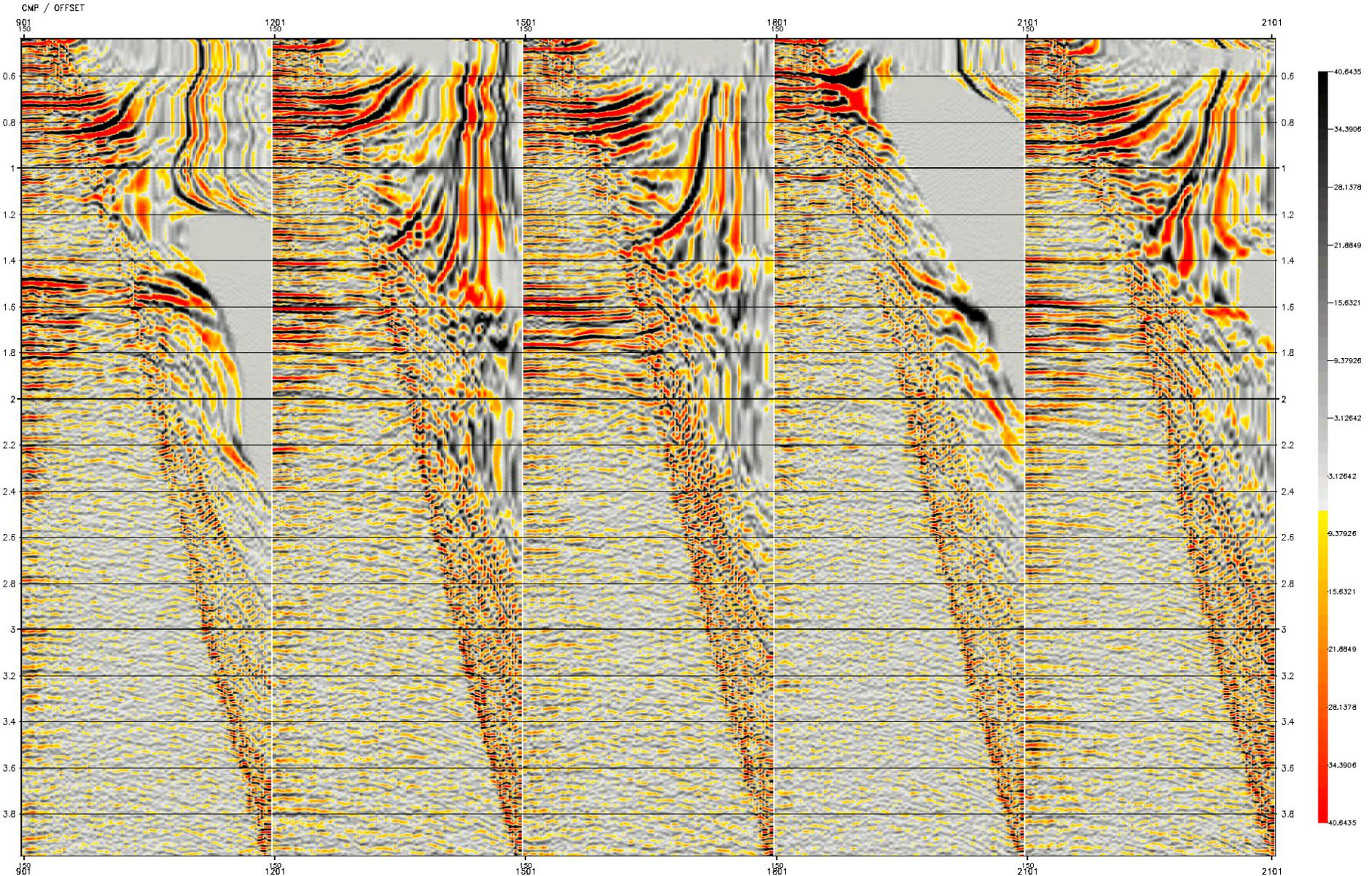
Gathers **without** radon

Tango::spr205pc:s563tap:1198 knoxrm.1



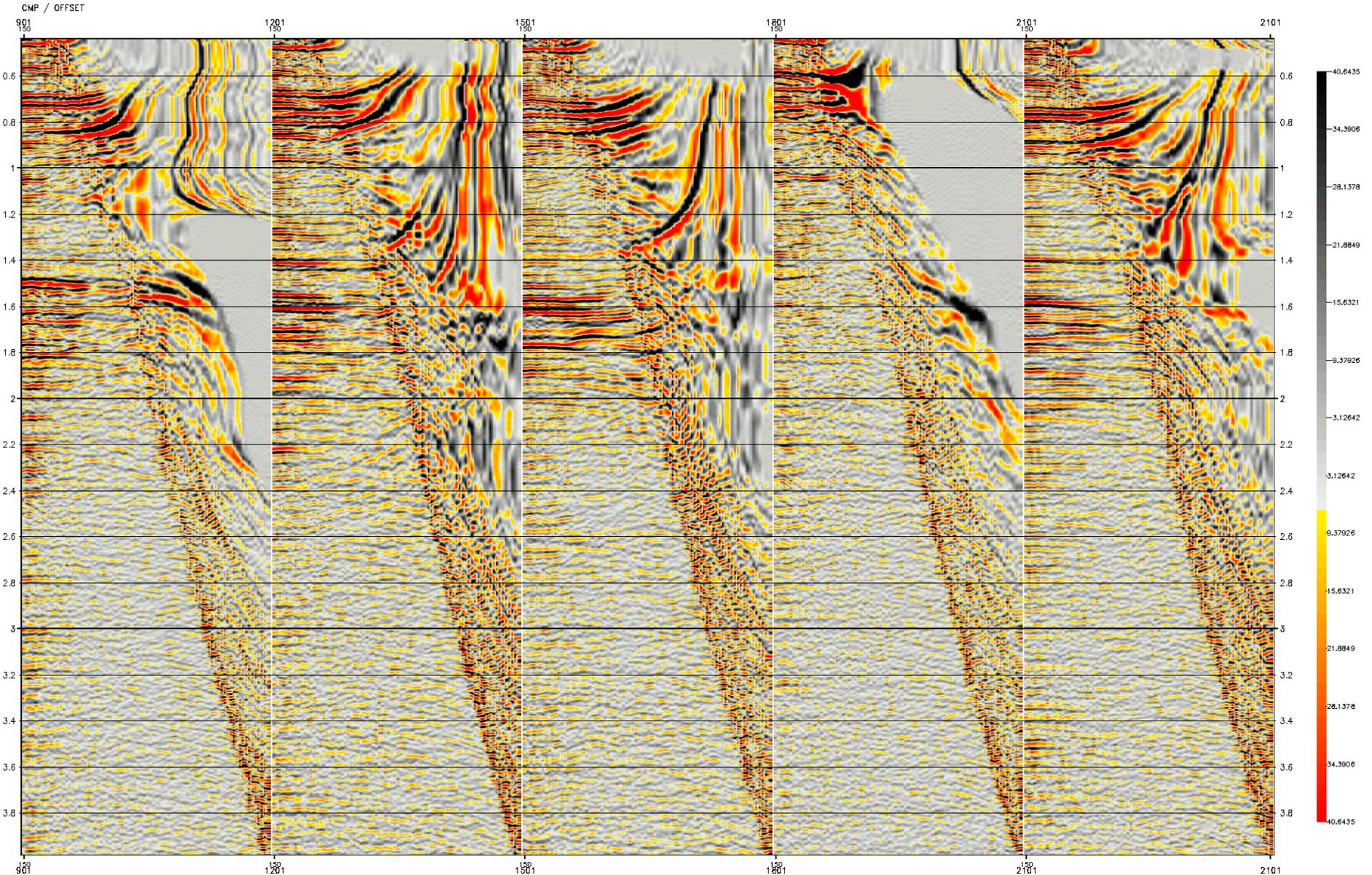
Gathers with radon – Test 1

Tango::spr205pc:s563lap:xrm tsl22a i.1



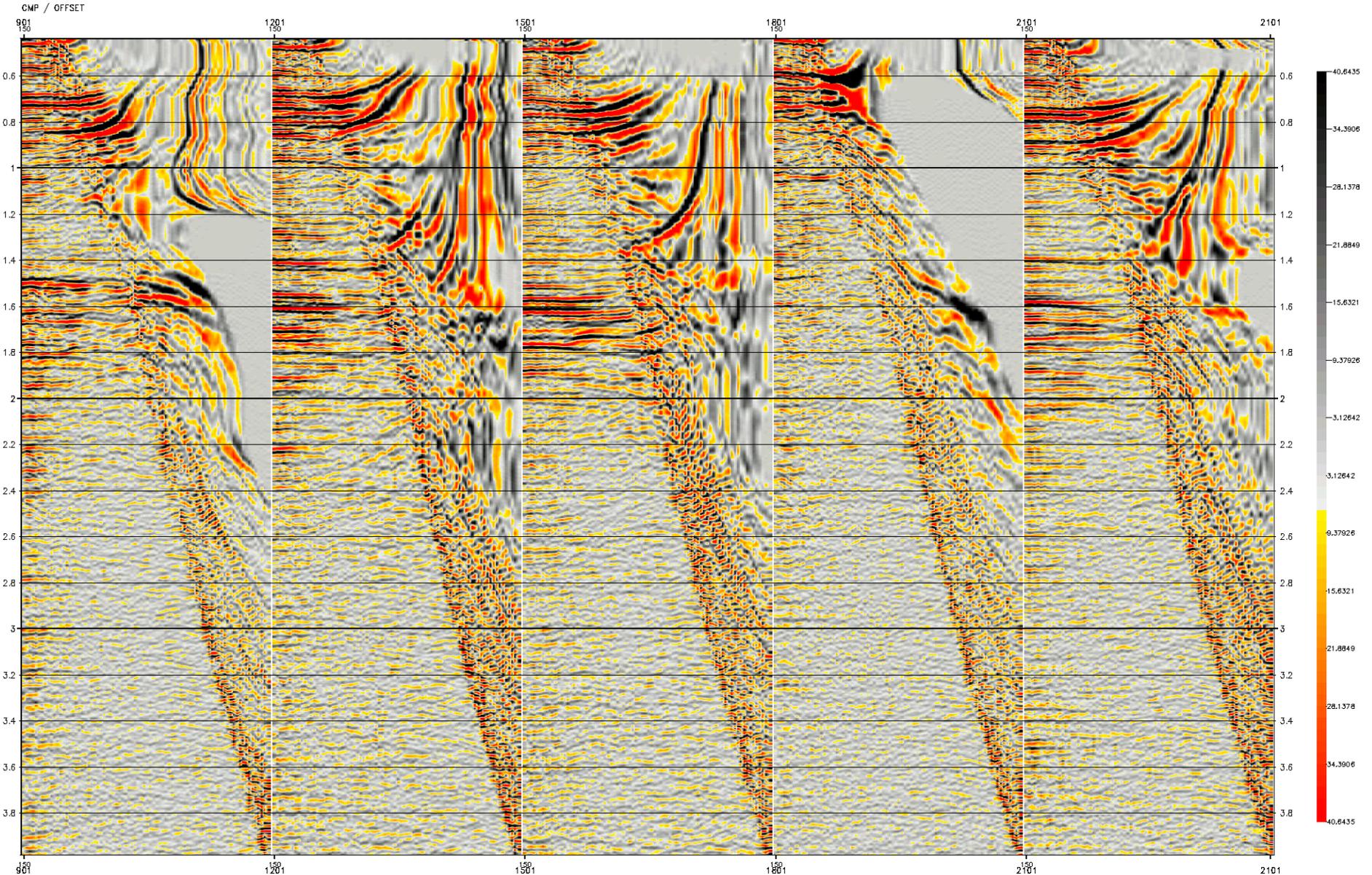
Gathers with radon – Test 2

Tango::spr205pc:s563lap:xrm tsl22b i.1



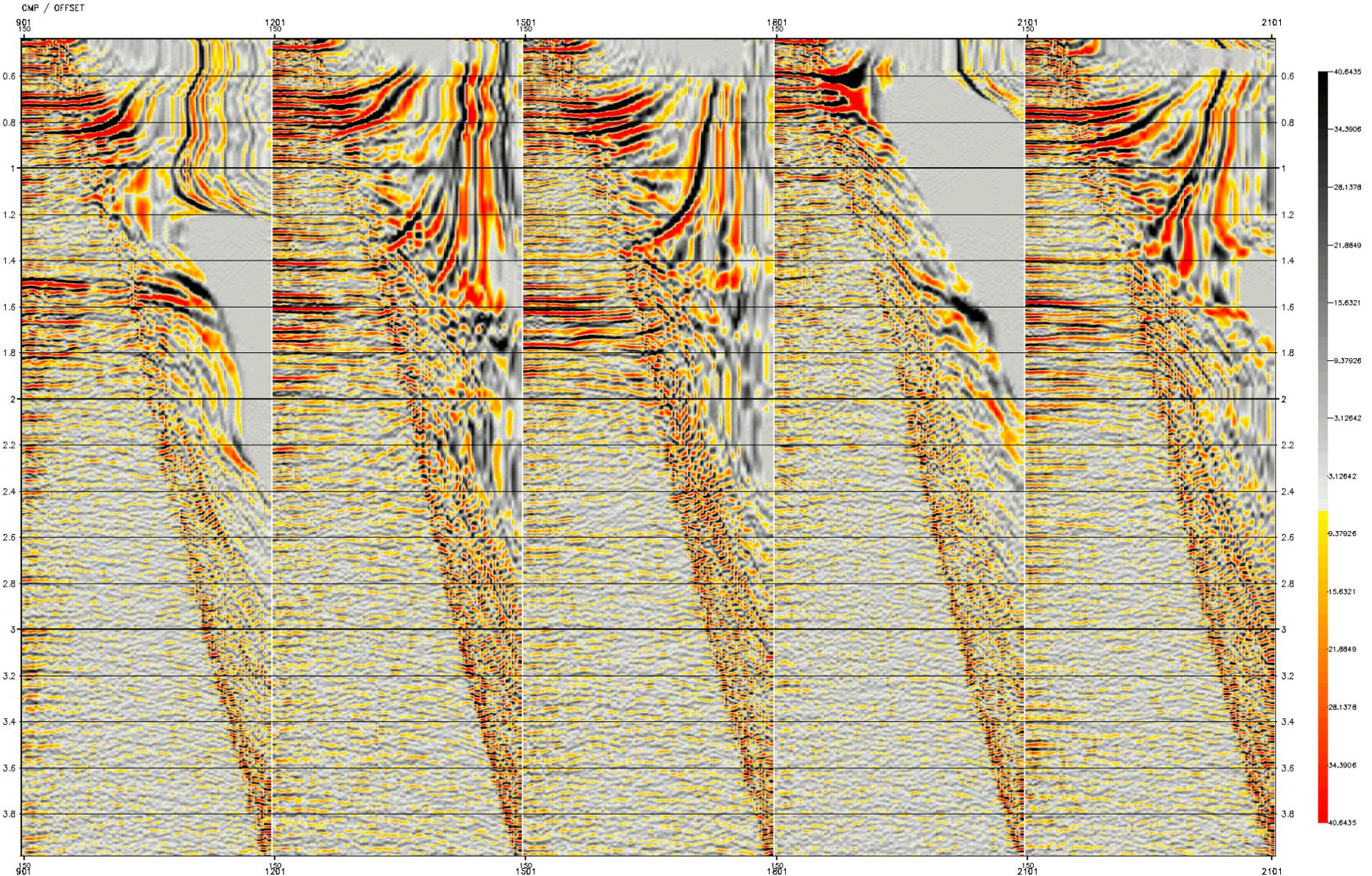
Gathers with radon – Test 3

Tango::spr205pc:s563lap:xrm tsl22c i.1



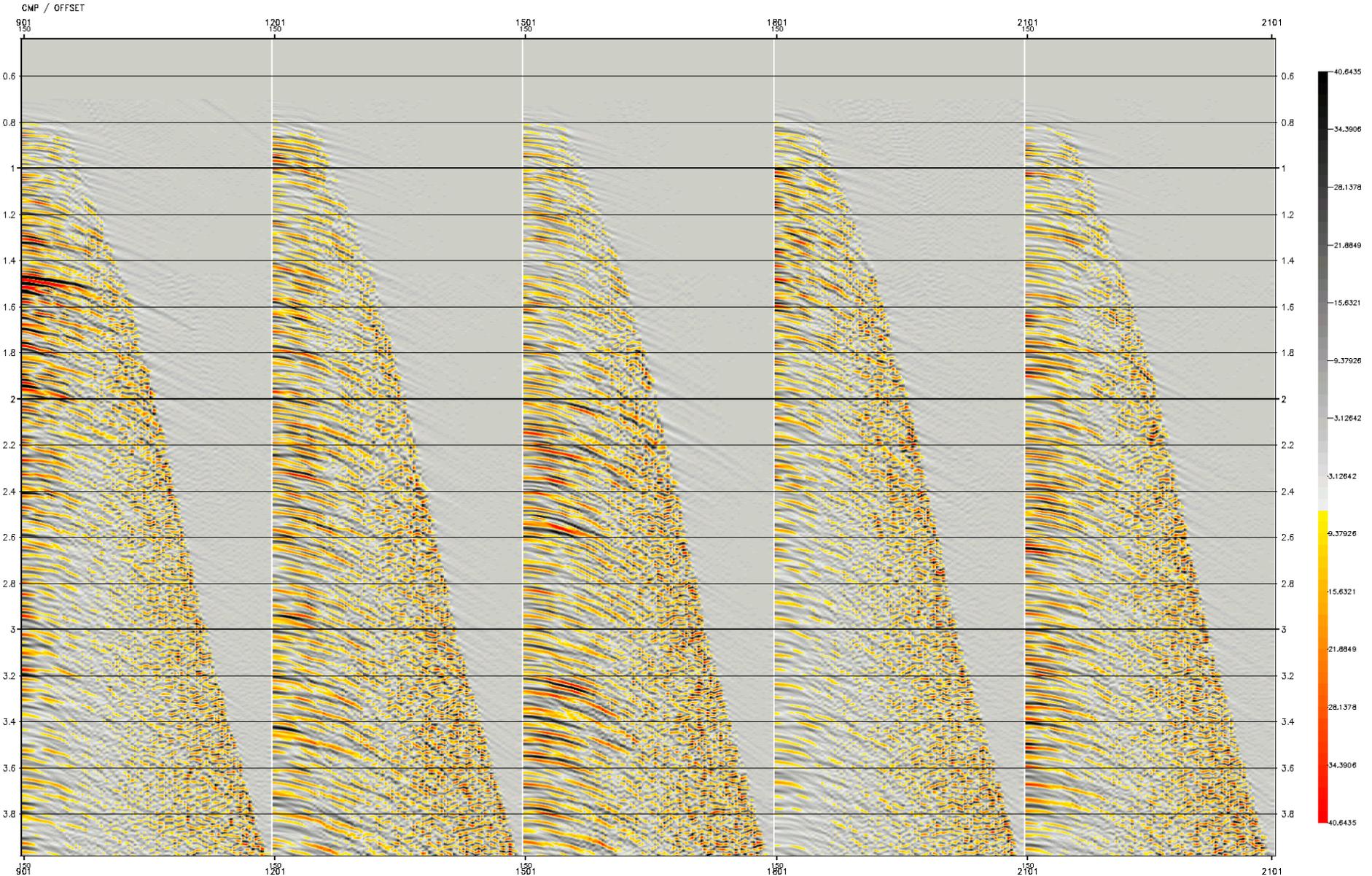
Gathers with radon – Test 4

Tango::spr205pc:s563tap:xrm 1st22b it.1



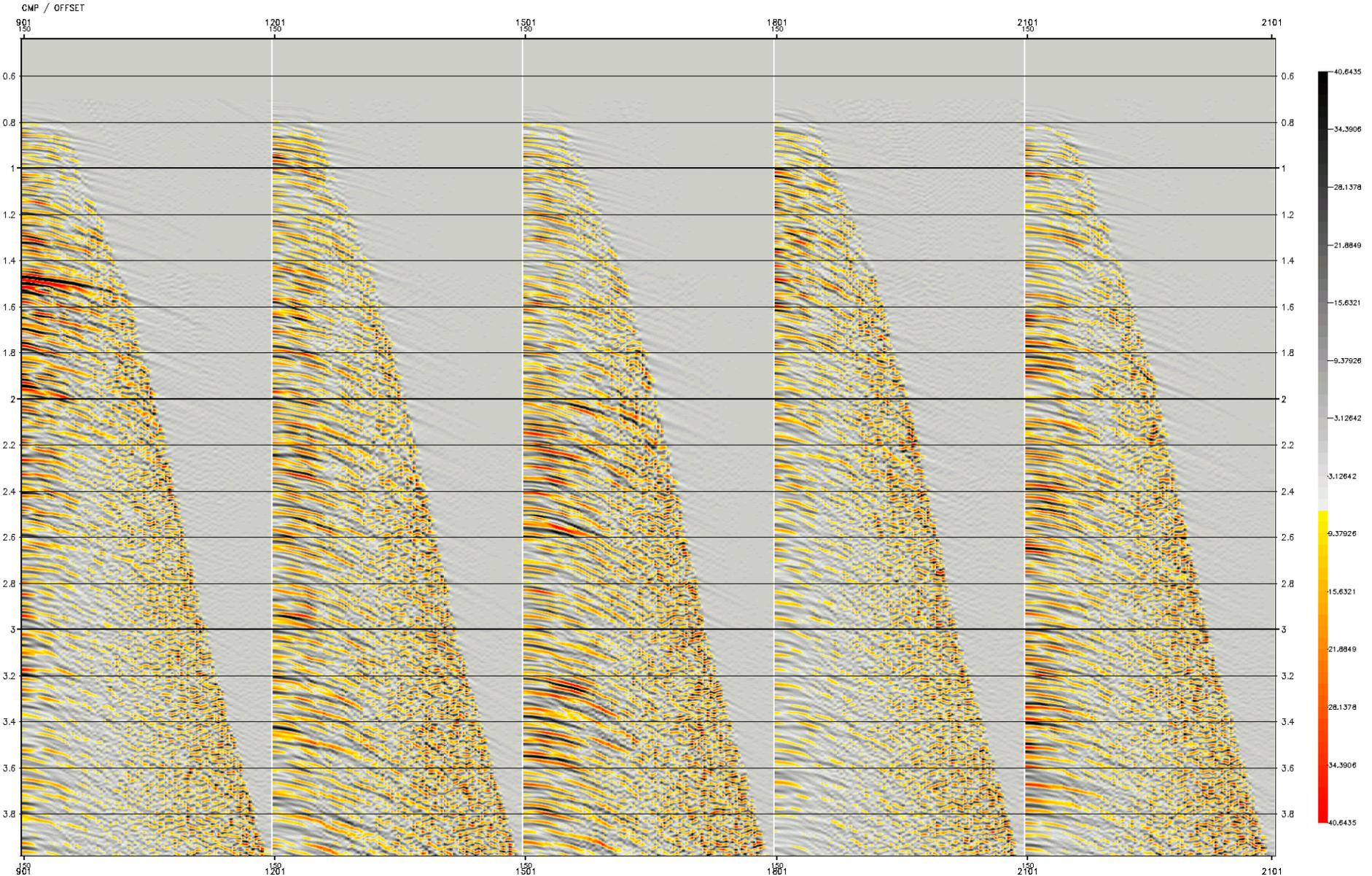
Gathers: Difference display – Test 1

1198 knoxrm-xrm ts122a i



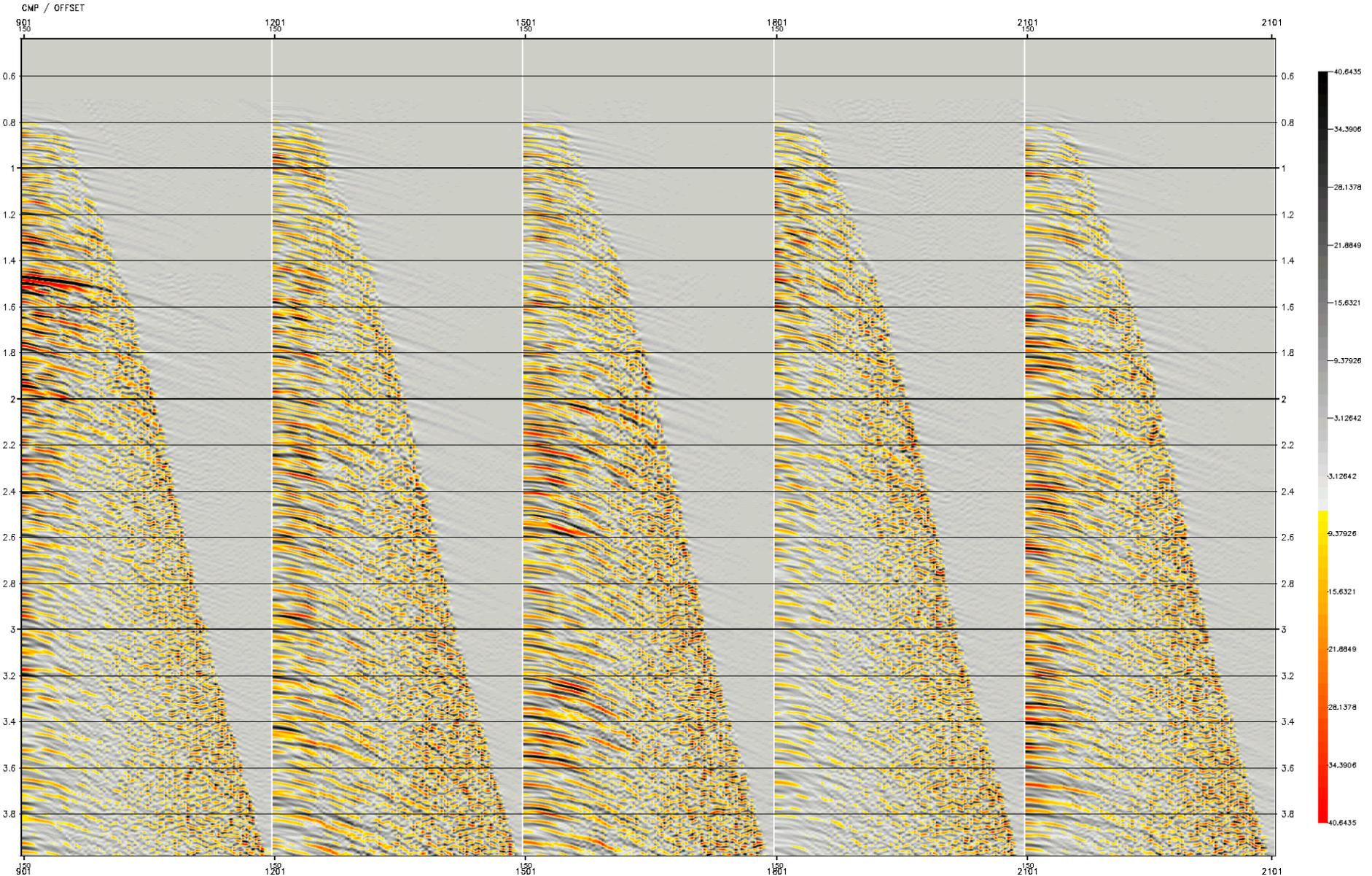
Gathers: Difference display – Test 2

1198 knoxrm-xrm ts122b i



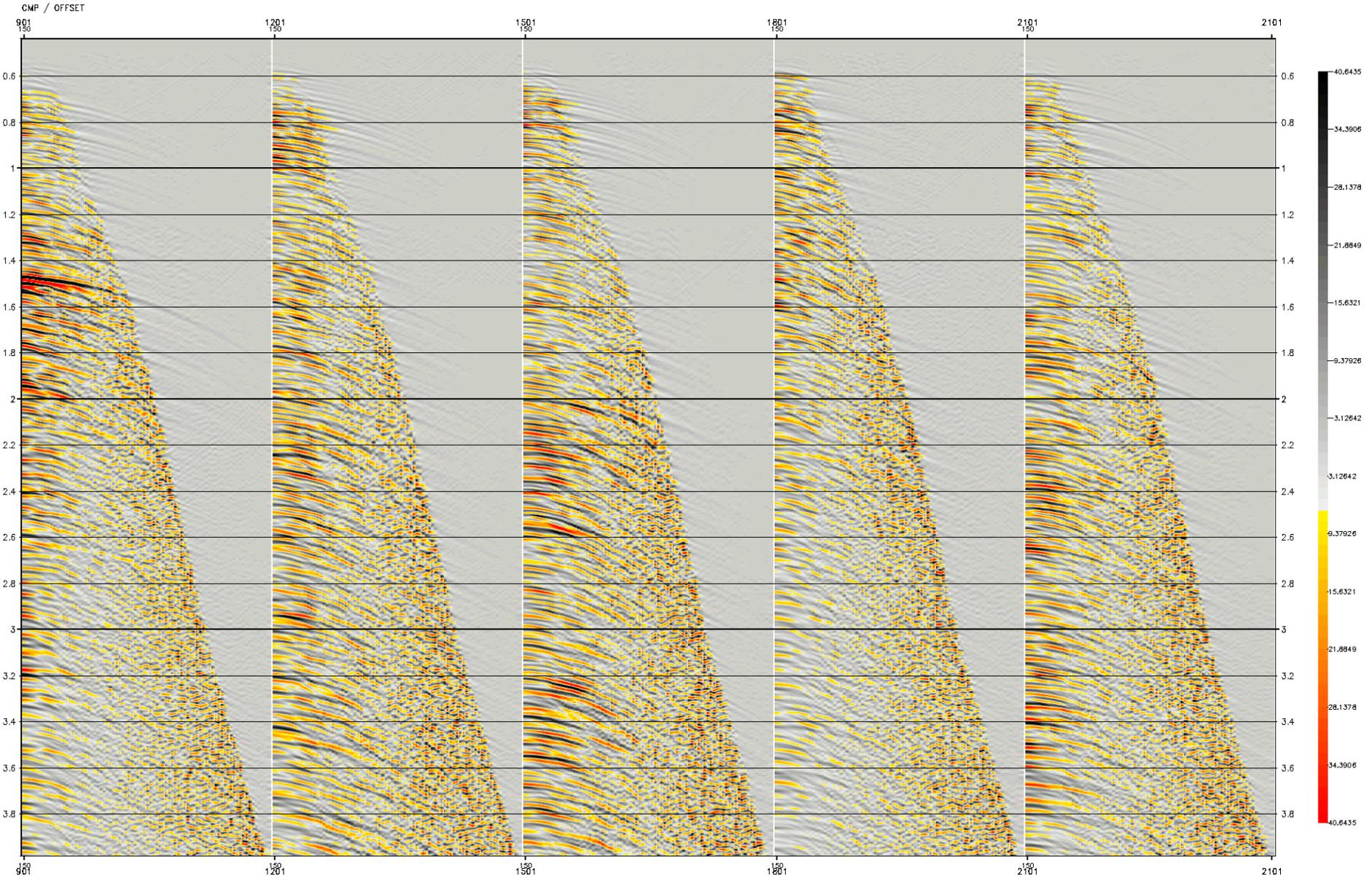
Gathers: Difference display – Test 3

1198 knoxrm-xrm ts122c i



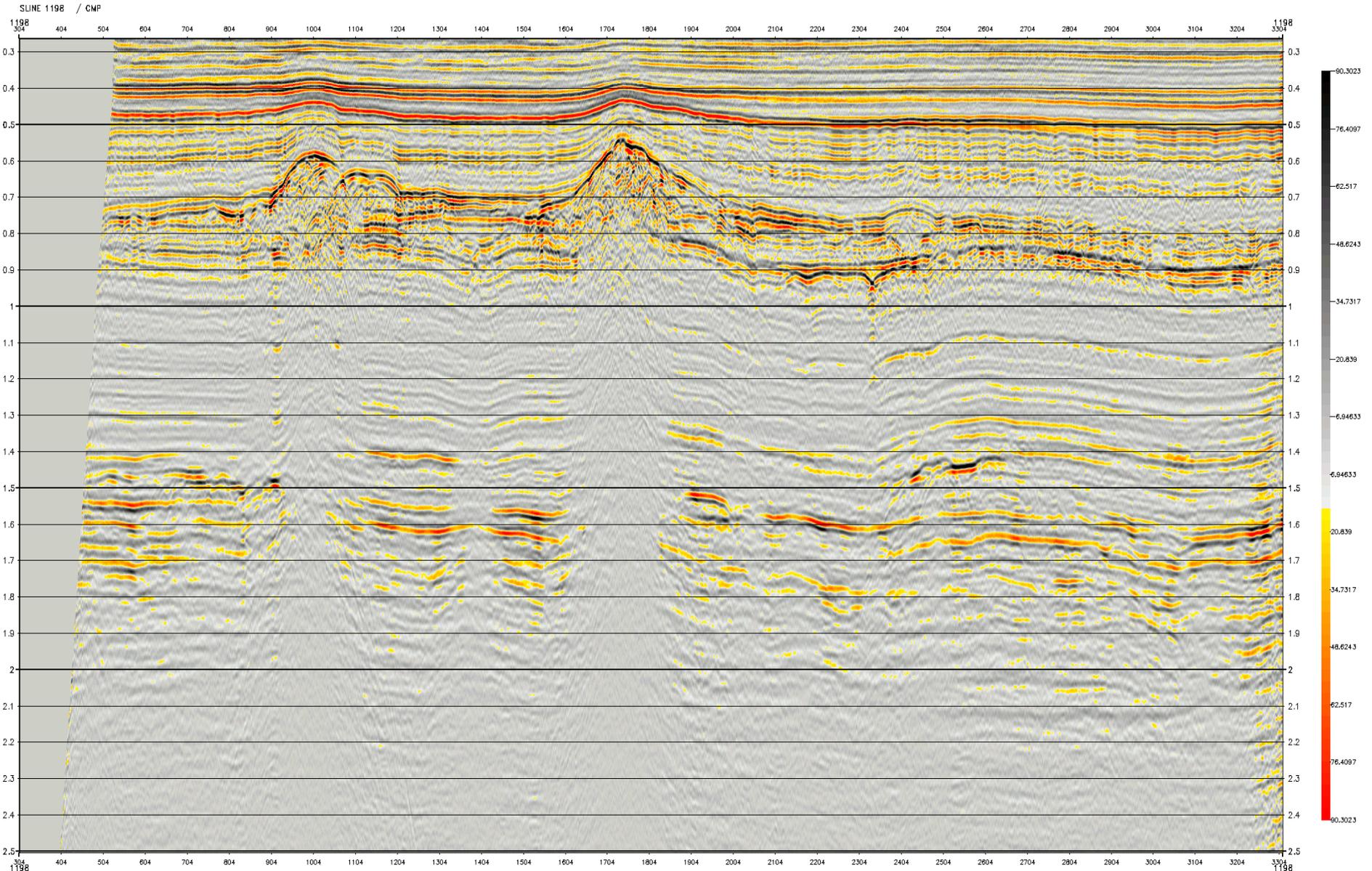
Gathers: Difference display – Test 4

1198 knoxrm-xrm 1st22b.it



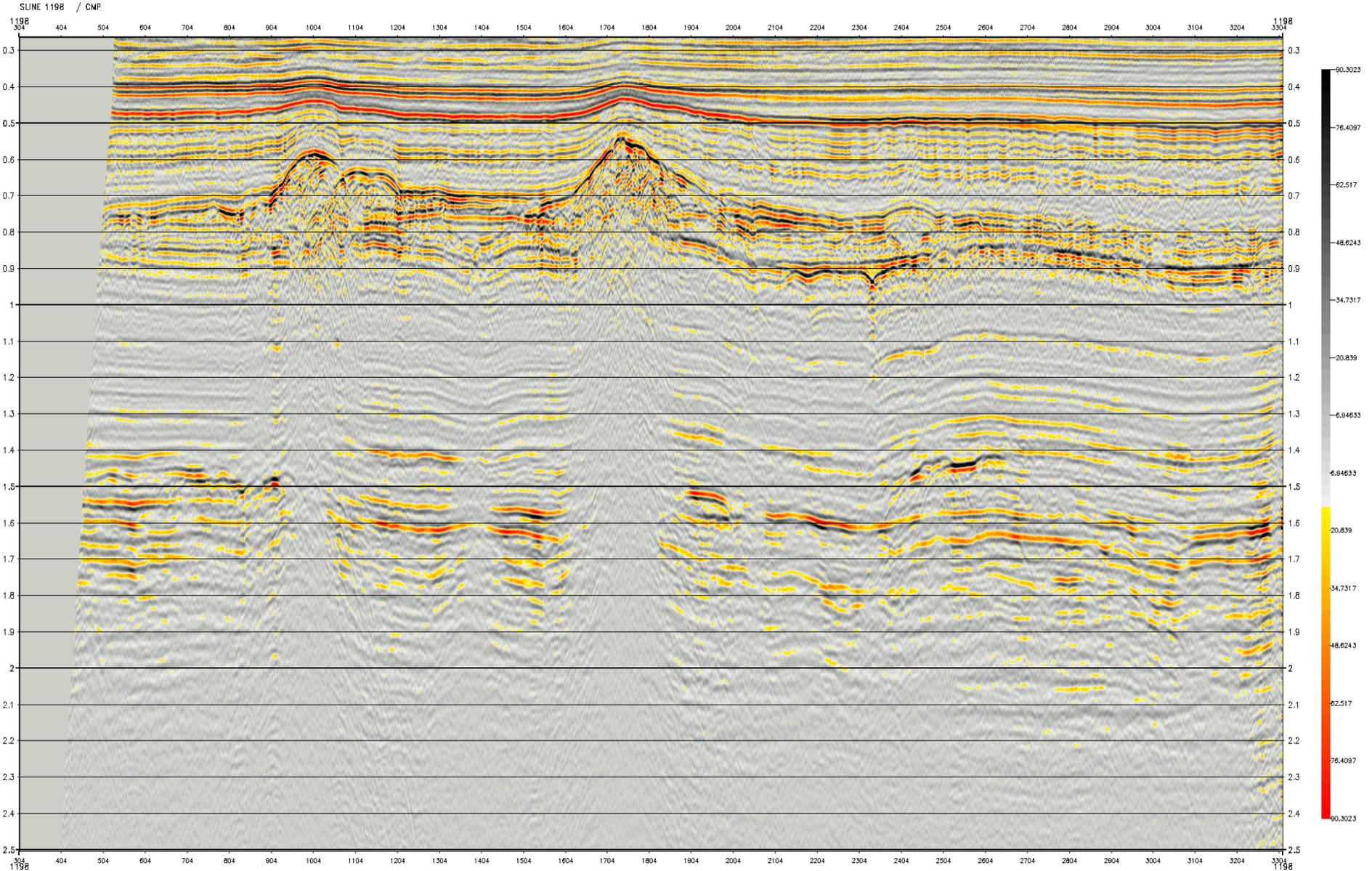
Stack without radon

Tango::spr205pc:s563lap:i1198 noxrm slk.1



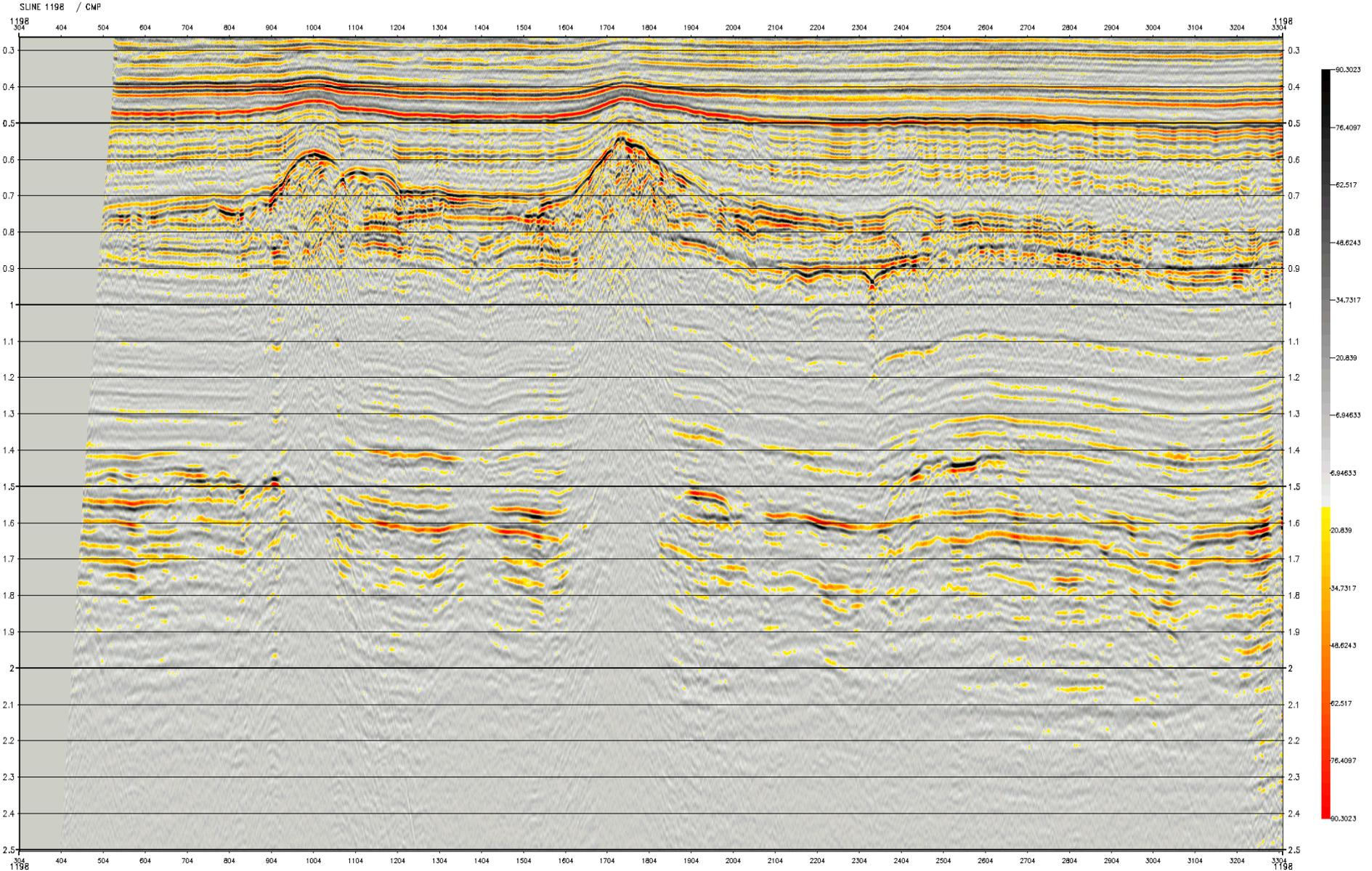
Stack with radon – Test 1

Tango::spr205pc:s563tep:1198 xrm mldstk2.1



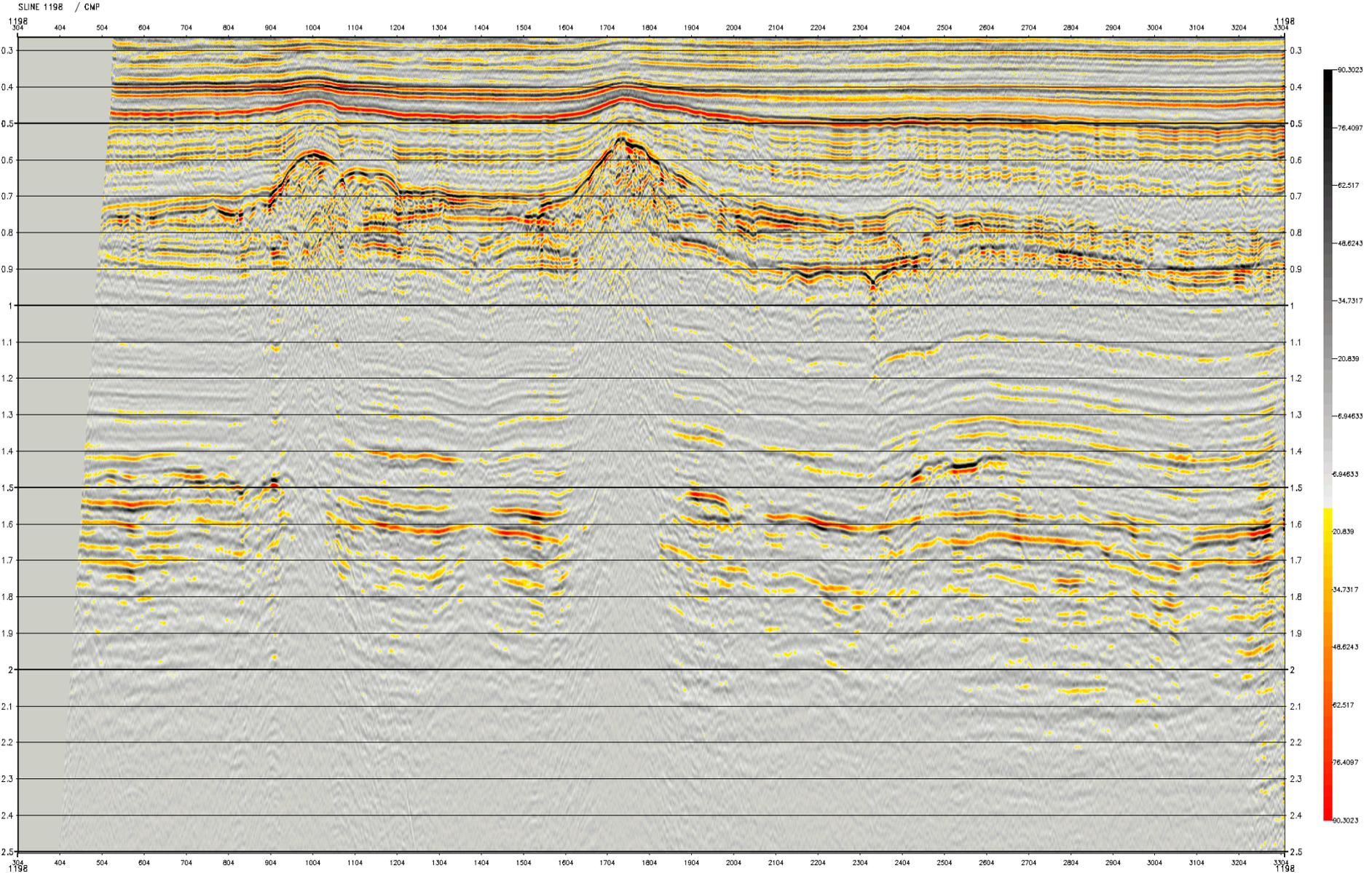
Stack with radon – Test 2

Tango::spr205pc:s563lep:i1198 xrm modstk2.1



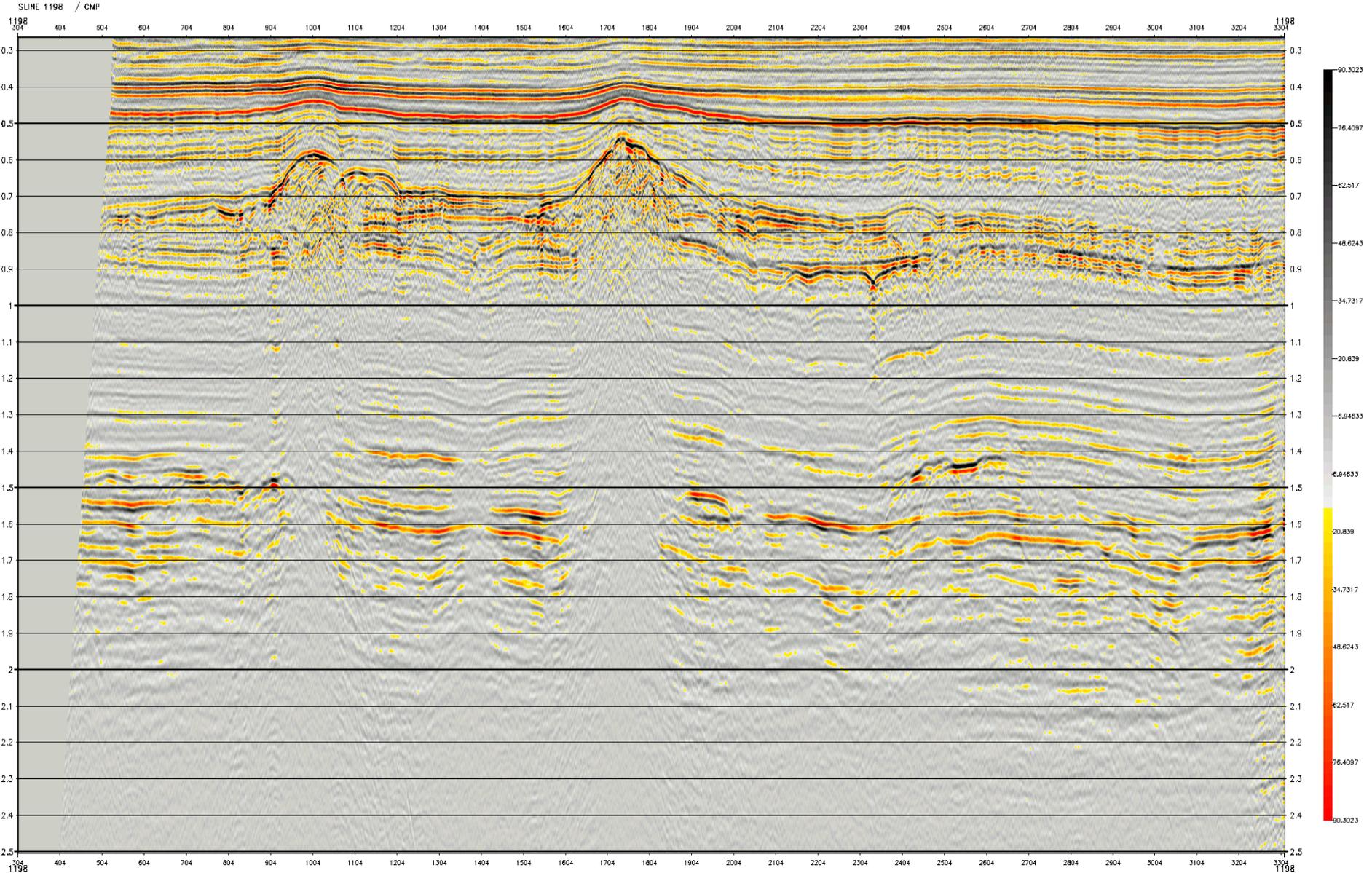
Stack with radon – Test 3

Tango::spr205pc:s563lap:i1198 xrm sevsk2.1



Stack with radon – Test 4

Tango::spr205pc:s563lap:i1198xrm modskZ1.1



Stack: Difference display – Test 1

i1198 noxrm stl-i1198 xrm midstk2



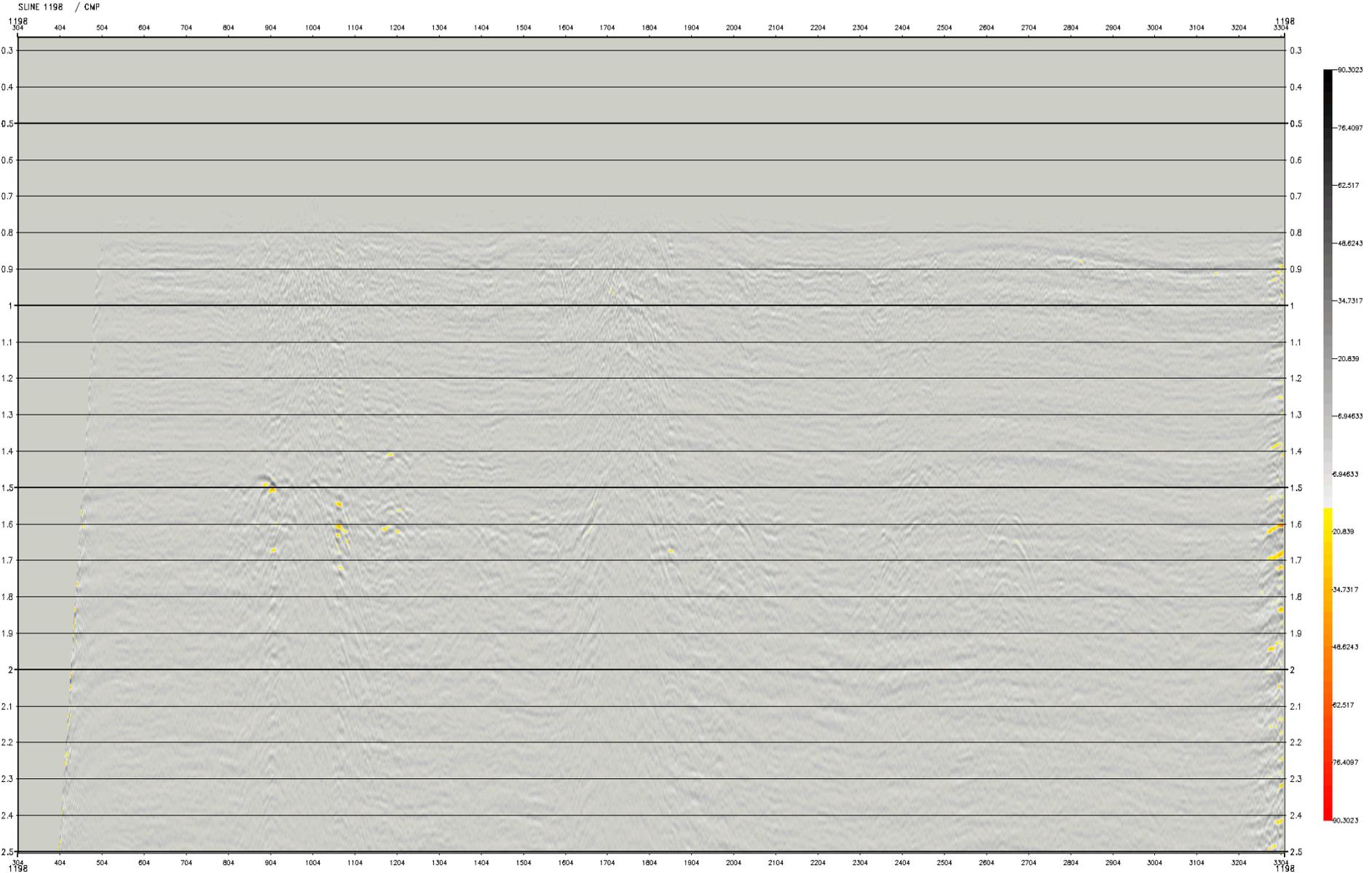
Stack: Difference display – Test 2

11198 noxrm stk-11198 xrm modstk2



Stack: Difference display – Test 3

i1198 noxrm stk-i1198 xrm sevstk2



Stack: Difference display – Test 4

11198 noxrm stk-11198xrm modstkZ1

