

Tap Oil T/47P 3D PSTM



Anisotropic Pre-stack Time Migration Test

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
- Tidal static correction
- Tau-P de-convolution, operator length 280 and gap 24ms
- First pass velocity analysis on 1km x 1km grid

Processing Flow continued

- 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
- Channel Scaling
- Post radon despiking
- Post radon linear noise attenuation
- 3D binning 12.5 X 25 m grid
- Ralft3D
- **Anisotropic PSTM Test**

Summary

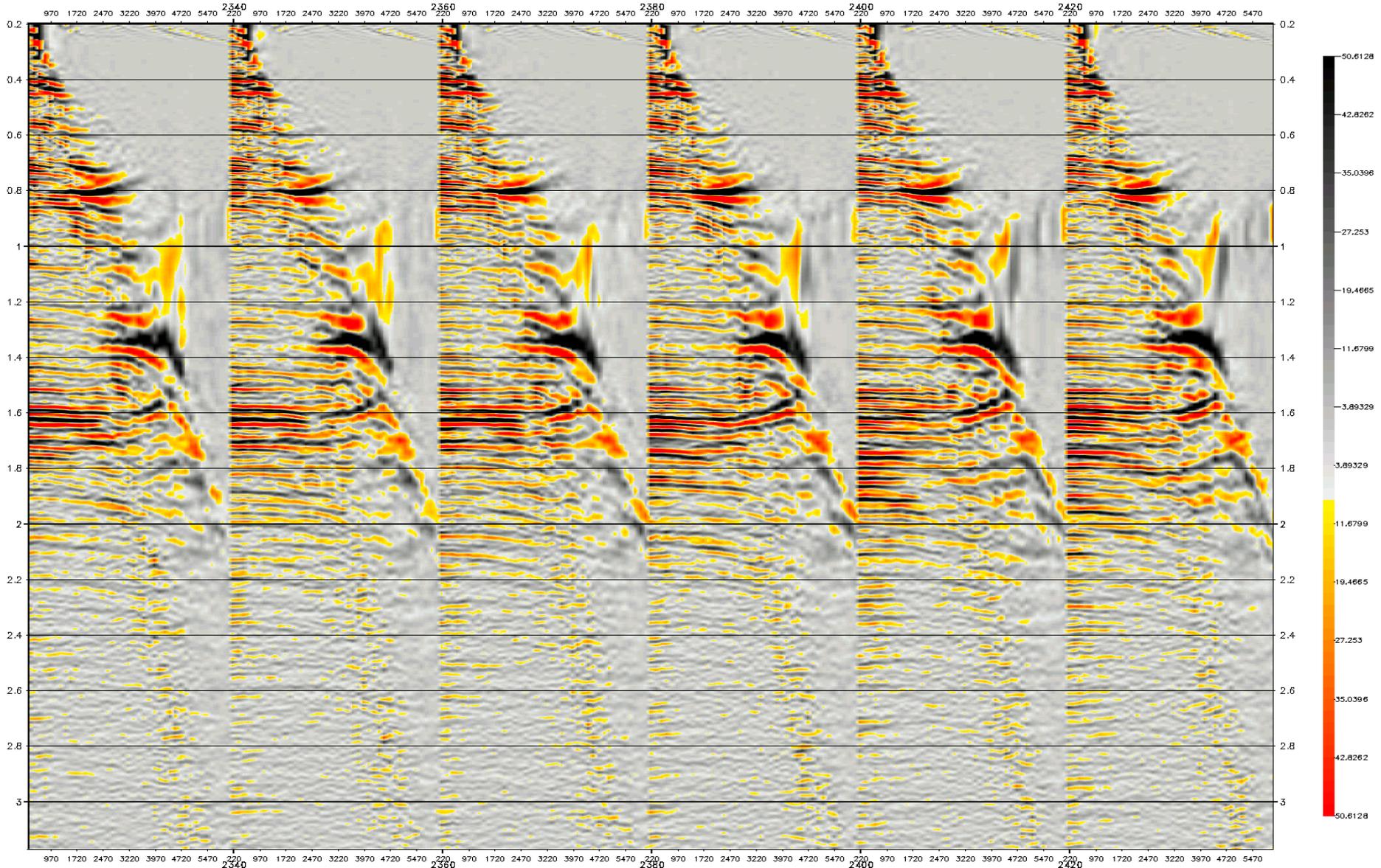
- One inline (processing inline 1460) is migrated (2D migration). Following are the tests conducted:
 - Test1: Pre-stack time migration without anisotropic parameter
 - Test2: Pre-stack time migration with eta 2%
 - Test3: Pre-stack time migration with eta 4%

Pre-stack Time Migration without anisotropic parameter

Crossline 2320 - 2420

Tango::spr212ws:s563tap:noqmod pslm_gth2.1

CROSSLINE / OFFSET

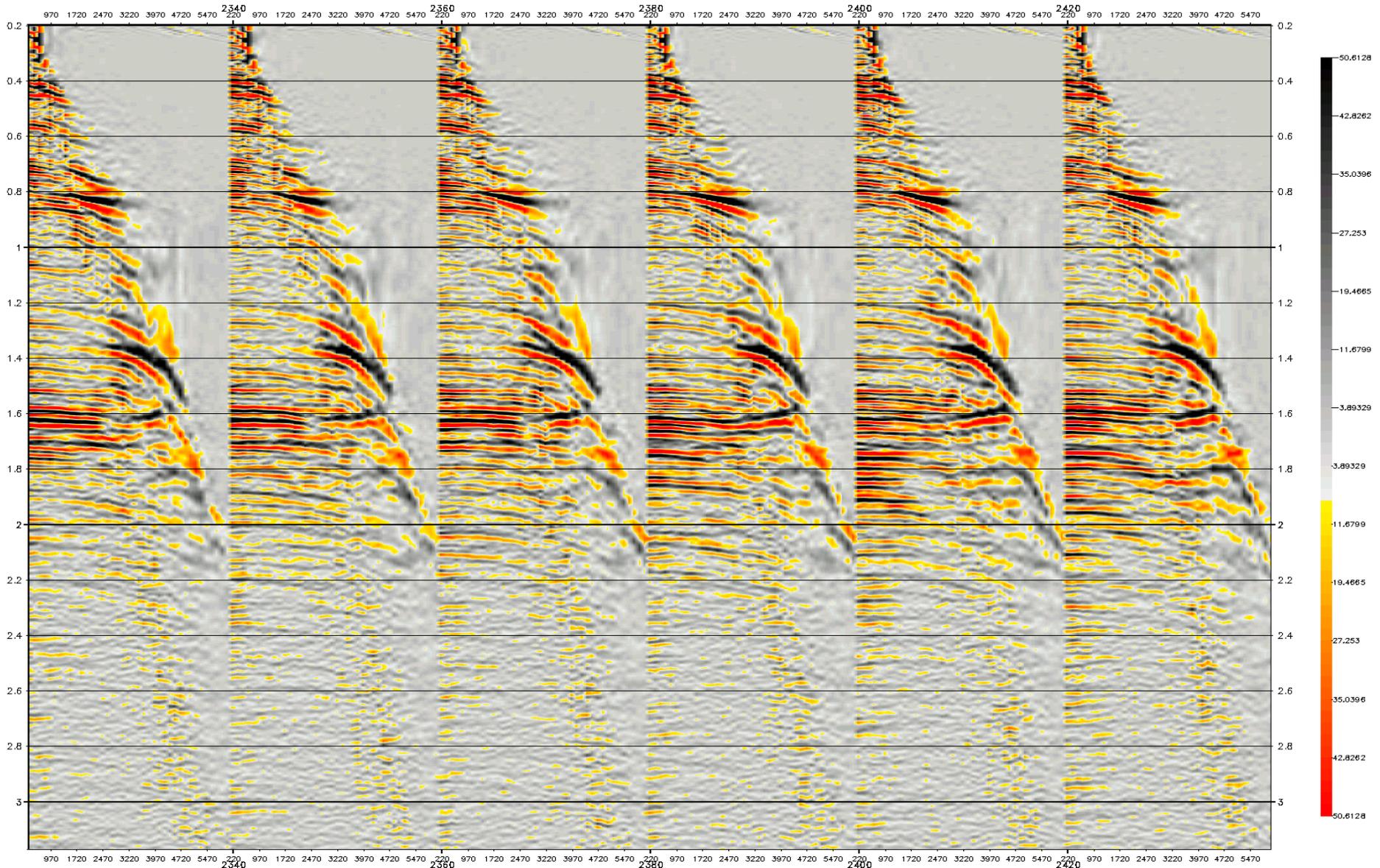


Anisotropic Pre-stack Time Migration, eta 2%

Crossline 2320 - 2420

Tango::spr212ws:s563lap:1460 apstm gth e2.1

CROSSLINE / OFFSET

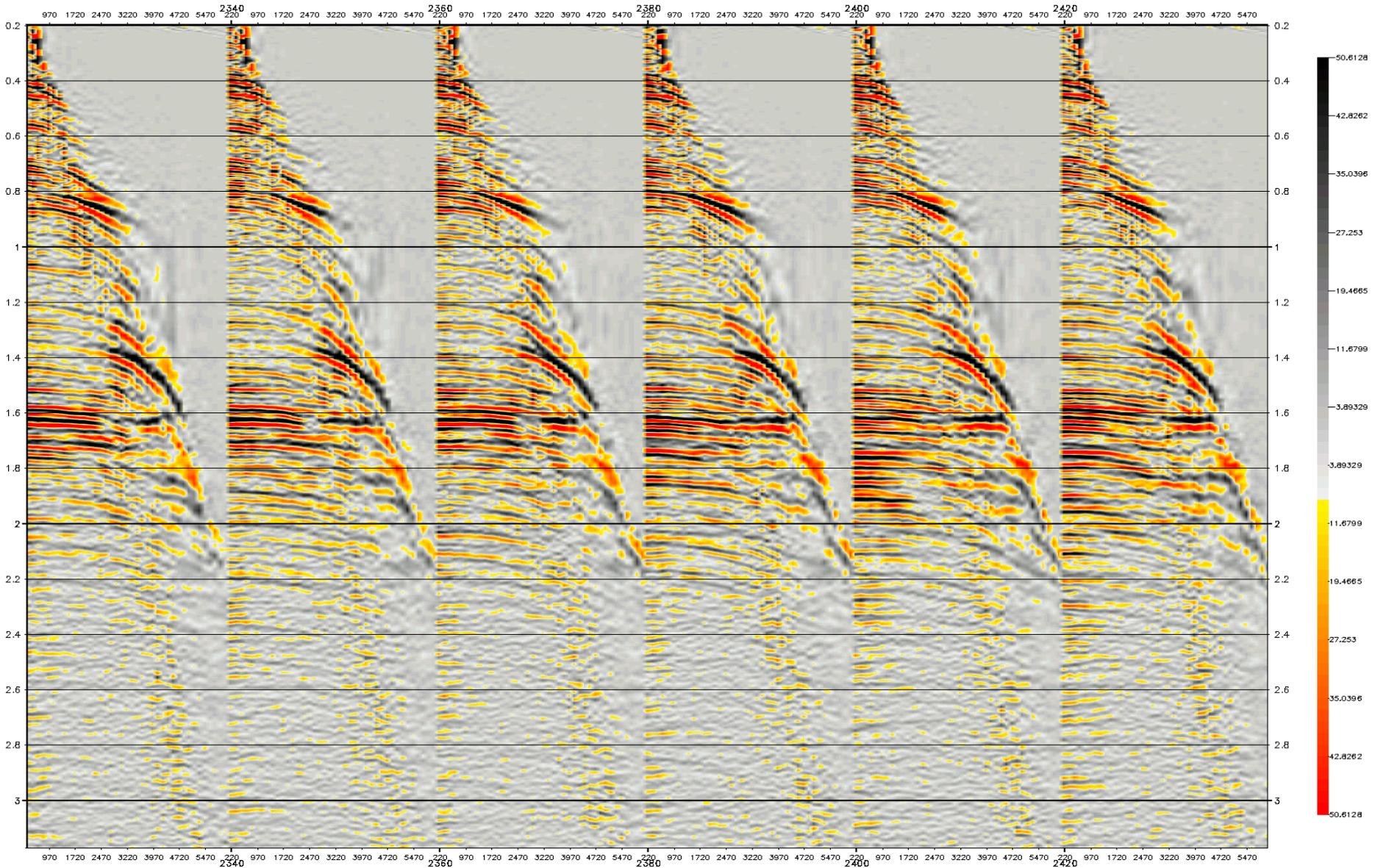


Anisotropic Pre-stack Time Migration, eta 4%

Crossline 2320 - 2420

Tango::spr212ws:s563lap:1460 apstm gth e4.1

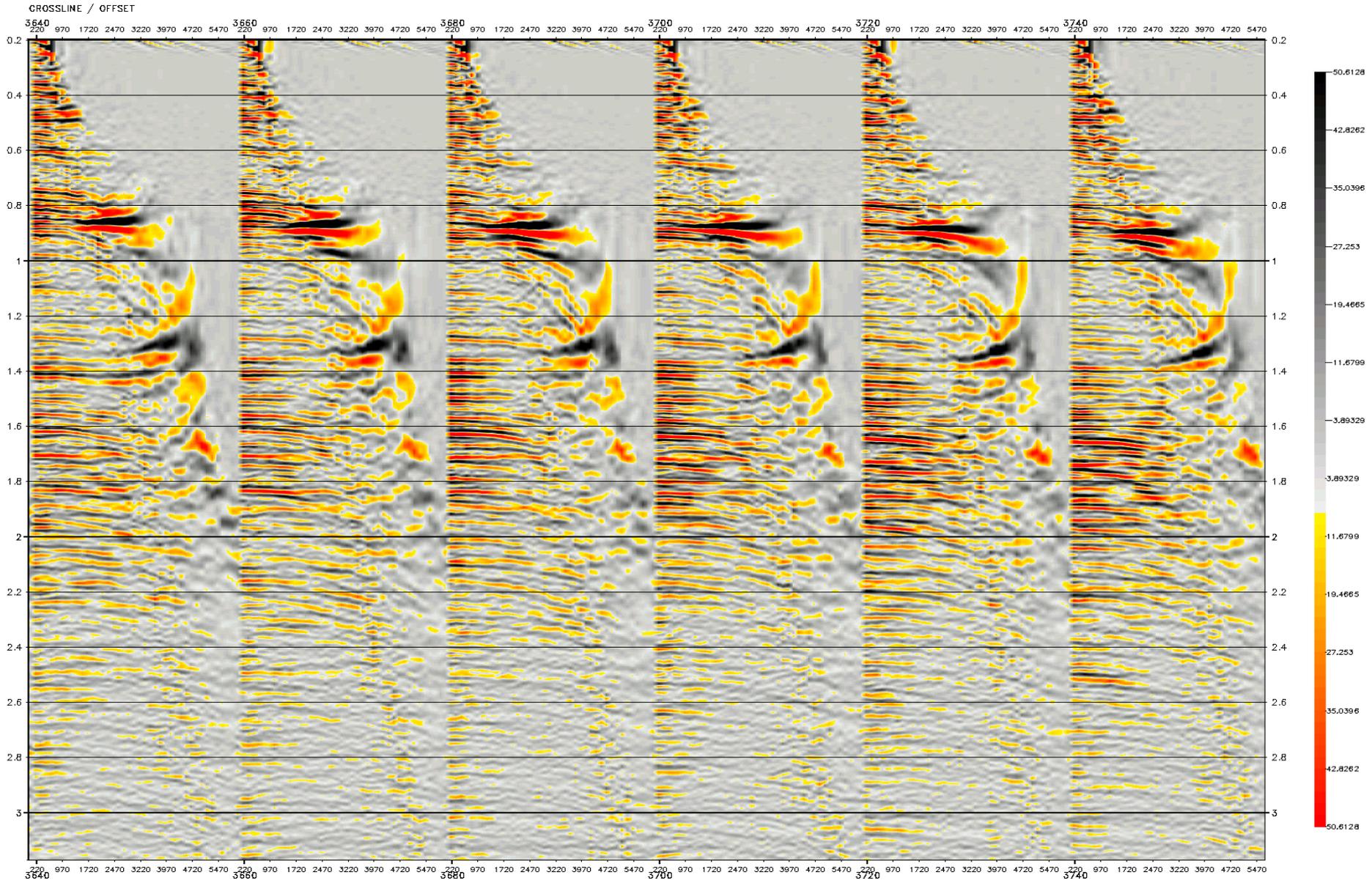
CROSSLINE / OFFSET



Pre-stack Time Migration without anisotropic parameter

Crossline 3640 - 3740

Tango::spr212ws:s563tap:noqmod psfm gth2.1



Anisotropic Pre-stack Time Migration, eta 2%

Crossline 3640 - 3740

Tango::spr212ws:s563lap:1460 apstm gth e2.1

