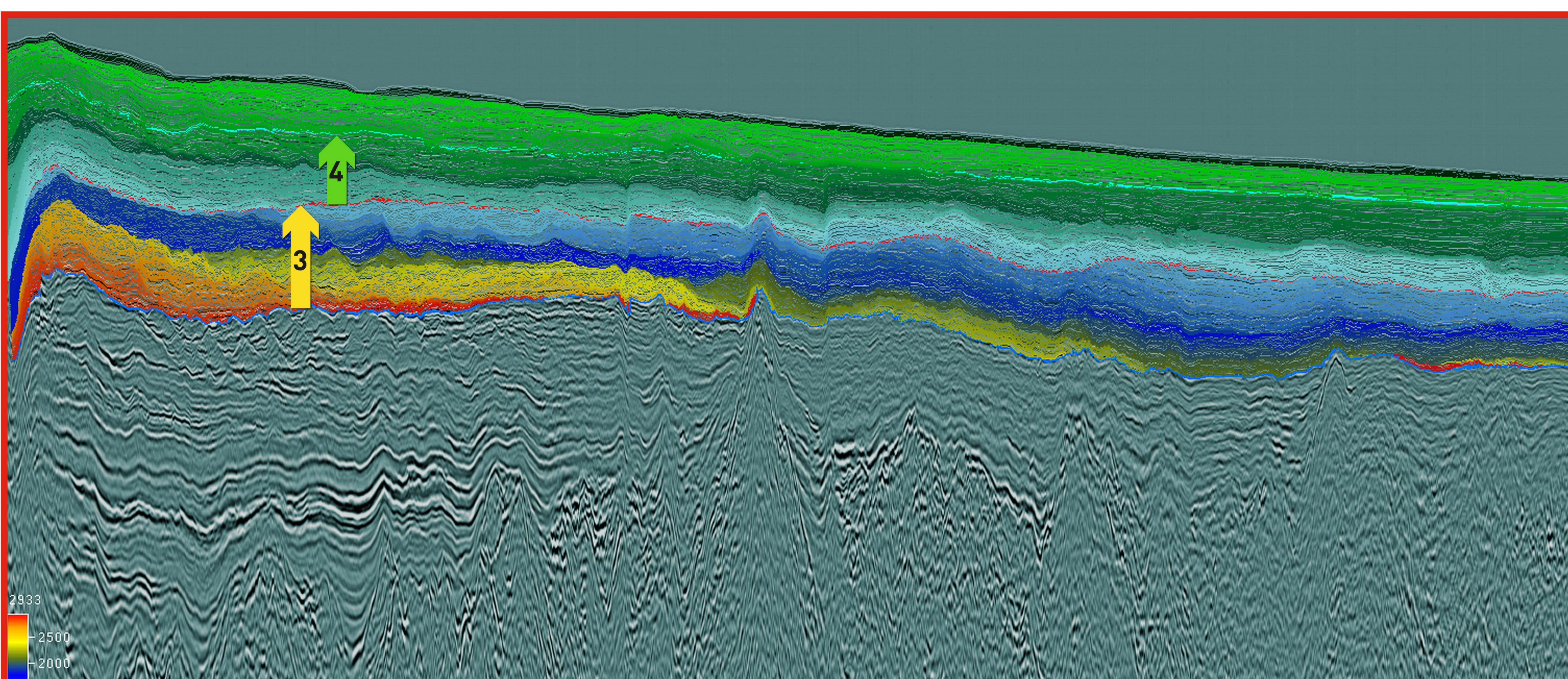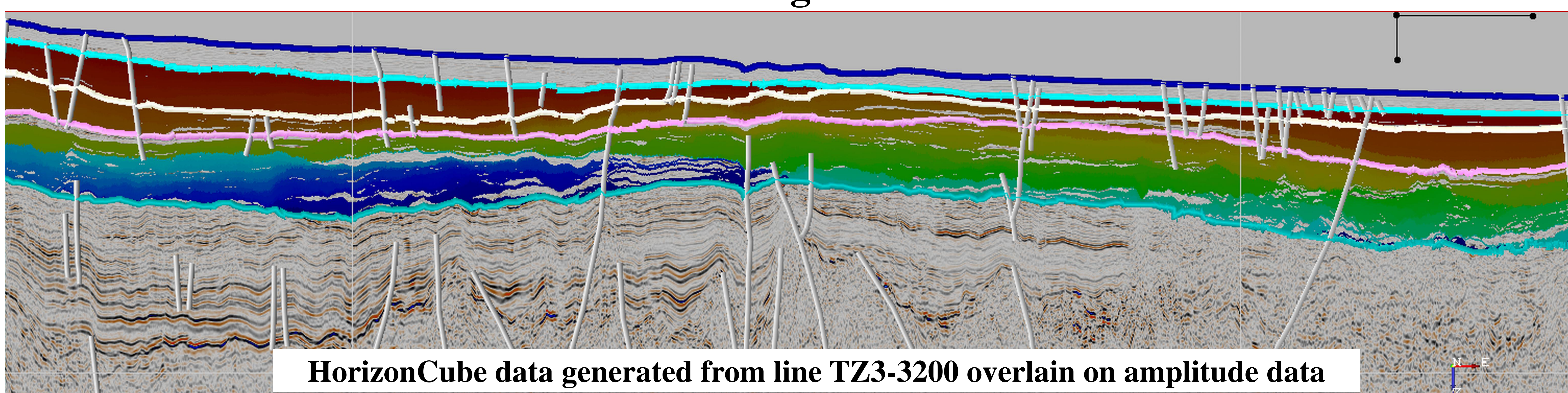# HorizonCube and Wheeler Transform Generated, Stratal Packages Identified and Correlated on 7 Regional 2D Seismic Lines
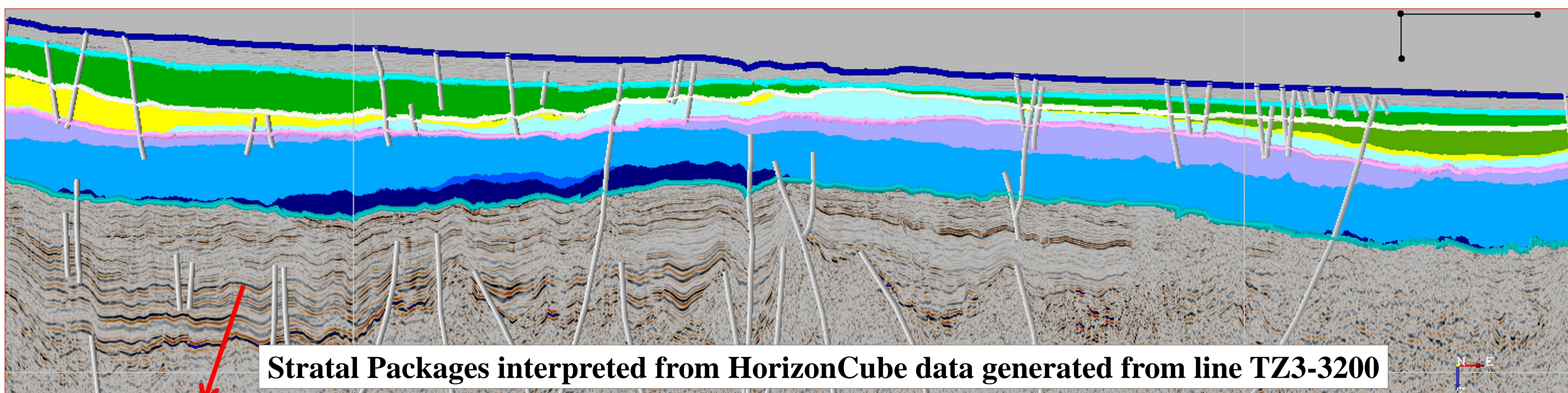
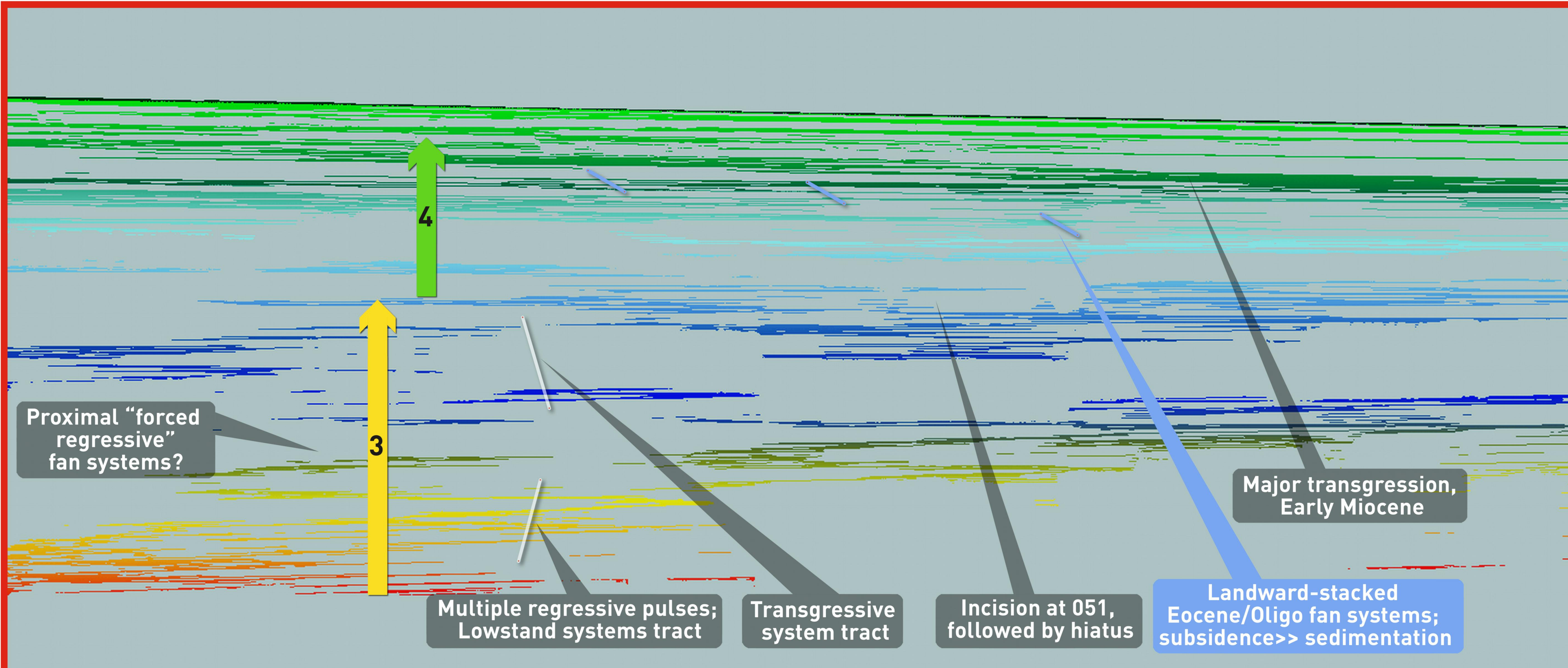## Identification of Stratal Packages from HorizonCube data

HorizonCube data generated from line TZ3-3200 overlain on amplitude data

Stratal Packages interpreted from HorizonCube data generated from line TZ3-3200

HorizonCube data generated from Line TZ3-2700.

Proximal "forced regressive" fan systems?

Major transgression, Early Miocene

Multiple regressive pulses; Lowstand systems tract

Transgressive system tract

Incision at 051, followed by hiatus

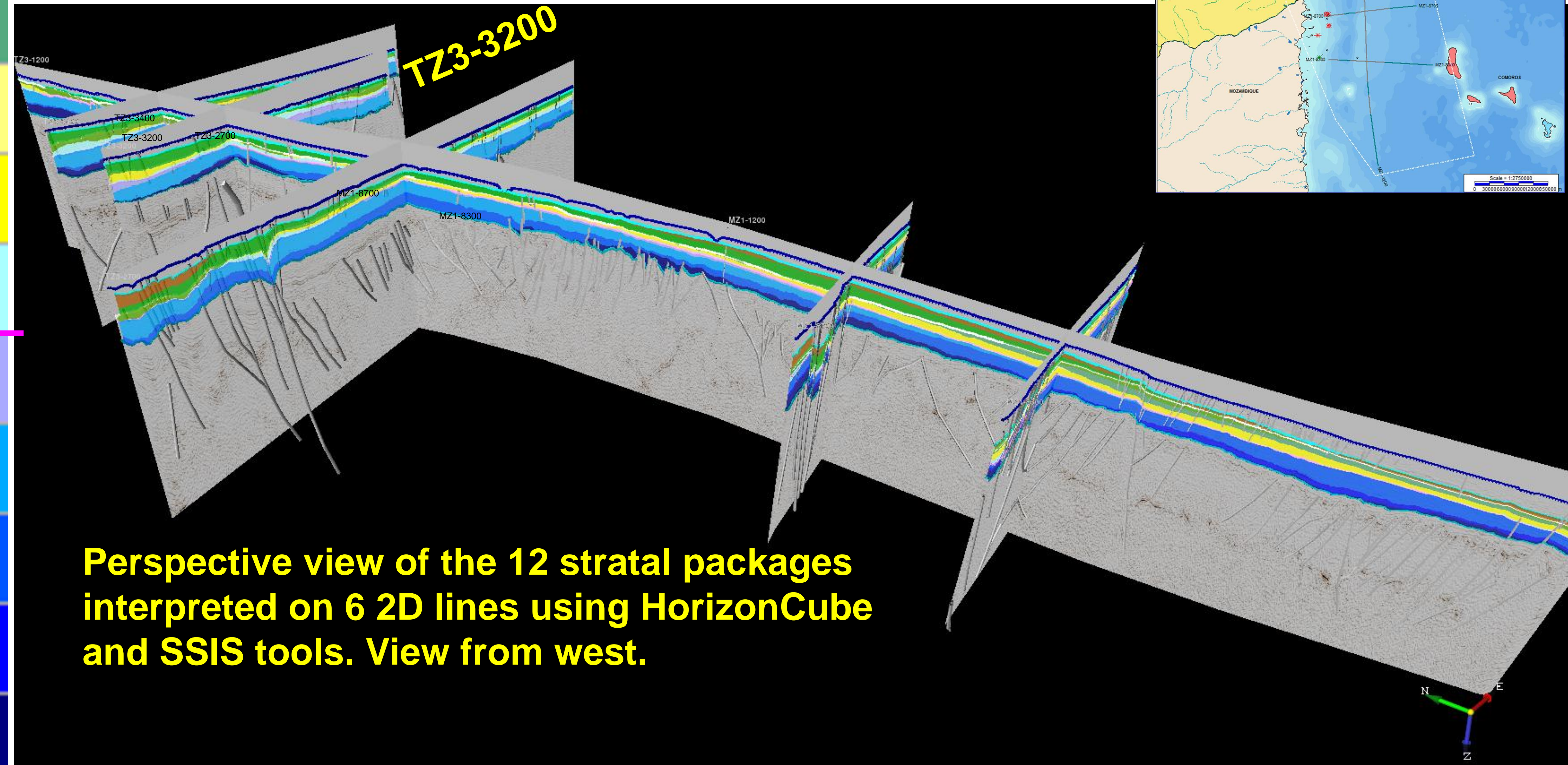Landward-stacked Eocene/Oligo fan systems; subsidence>> sedimentation

Wheeler domain representation and distribution of HorizonCube data. Stratal packages delineated from these data in combination with fence diagrams and normal amplitude seismic data.

Correlation and mapping of Stratal Packages yields:

- Regional shifts in sediment package distribution
- Sediment provenance changes
- Paleophysiographic reconstruction in the absence of direct shoreline connection ("Onlap-free world," study area lies entirely in deep water province)

022 Early Miocene

034 Oligoce

051 Early Eocene

108 Lower Cretaceous

Twelve stratal packages correlated regionally between Early Miocene and Lower Cretaceous. See Table 1 for defining criteria for each stratal package.

TZ3-3200

Perspective view of the 12 stratal packages interpreted on 6 2D lines using HorizonCube and SSIS tools. View from west.

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