

Tectonic categorization criteria

TABLE DR1. SUMMARY OF CRITERIA USED TO CATEGORISE INTERPRETATIONS INTO THE DIFFERENT TECTONIC SETTINGS

Tectonic Category	Criteria for categorization
Extension	<ul style="list-style-type: none"> • Arrow next to a fault with arrowhead pointing down (or on both sides with appropriate kinematics). • Correlated horizons showing extensional offsets. Horizons were classified as correlated if they shared colouring, shading of a sedimentary package, numbering/lettering or written annotations. • Annotations denoting extension i.e. "normal fault". • Descriptive writing and/or evolutionary sketches showing extension.
Inversion	<ul style="list-style-type: none"> • Double headed arrow next to fault denoting both extension and compression accommodated on a single fault. • As point 1, but extension and compression could be accommodated on different faults across the image. • Correlated horizons showing both extensional offsets and contraction. • A correlated horizon being above and below the regional datum. • Annotations denoting inversion i.e. "reactivation of fault in opposite sense". • Descriptive writing and/or evolutionary sketches showing inversion.
Thrust	<ul style="list-style-type: none"> • Arrow next to a fault with arrowhead pointing up. • Correlated horizons showing compressional offsets. • Annotations denoting compression i.e. "reverse fault". • Descriptive writing and/or evolutionary sketches showing compression.
Strike-slip	<ul style="list-style-type: none"> • Flower structure geometry (steep faults splaying upwards). • Symbol showing head (circle with dot) and tail (circle with cross) of a dart on either side of a fault. (n.b. none of the participants used this symbol). • Descriptive writing and/or evolutionary sketches showing strike slip faulting n.b. only those interpretations that unequivocally showed a flower structure were categorized as strike-slip, if they did not, they were categorized as unclear.
Diapirism	<ul style="list-style-type: none"> • Colouring or stippling to represent salt (e.g. inverted 'V's) or shale. • Annotations denoting salt or shale mobilization i.e. "salt diapir" • Descriptive writing and/or evolutionary sketches showing diapirs of salt or shale
Other	<ul style="list-style-type: none"> • Non-tectonic interpretation, for instance sequence stratigraphy or coral reefs