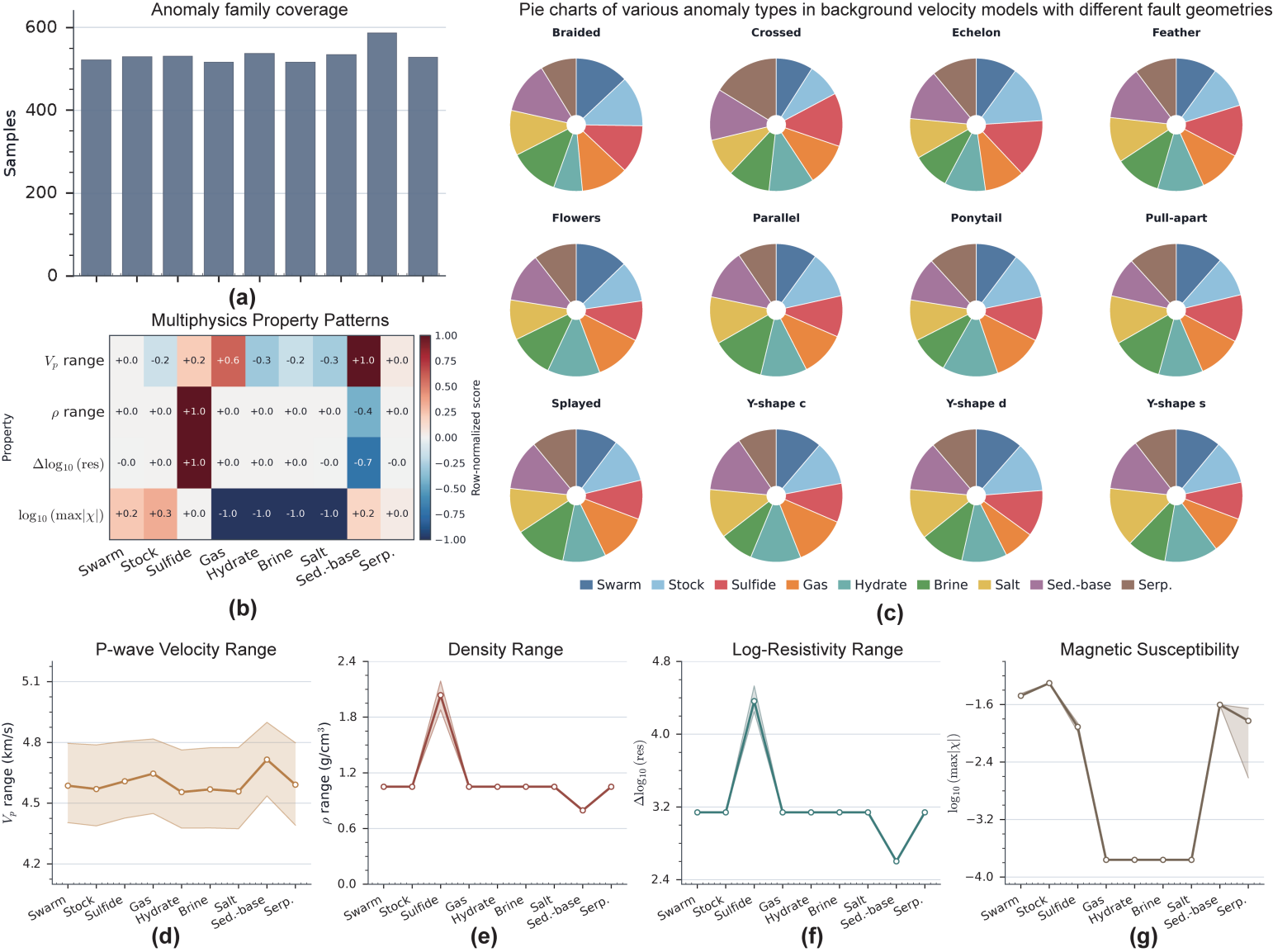

Anomaly family coverage
Samples
600
400
200
0
(a)
Multiphysics Property Patterns
Property
V_p range
ρ range
$\Delta\log_{10}$ (res)
$\log_{10}$ (max|χ|)
+0.0 -0.2 +0.2 +0.6 -0.3 -0.2 -0.3 +1.0 +0.0
+0.0 +0.0 +1.0 +0.0 +0.0 +0.0 +0.0 -0.4 +0.0
-0.0 +0.0 +1.0 +0.0 +0.0 +0.0 -0.0 -0.7 -0.0
+0.2 +0.3 +0.0 -1.0 -1.0 -1.0 -1.0 +0.2 +0.0
Swarm Stock Sulfide Gas Hydrate Brine Salt Sed.-base Serp.
Row-normalized score
1.00 0.75 0.50 0.25 0.00 −0.25 −0.50 −0.75 −1.00
(b)
Pie charts of various anomaly types in background velocity models with different fault geometries
Braided
Crossed
Echelon
Feather
Flowers
Parallel
Ponytail
Pull-apart
Splayed
Y-shape c
Y-shape d
Y-shape s
Swarm Stock Sulfide Gas Hydrate Brine Salt Sed.-base Serp.
(c)
P-wave Velocity Range
V_p range (km/s)
5.1 4.8 4.5 4.2
Swarm Stock Sulfide Gas Hydrate Brine Salt Sed.-base Serp.
(d)
Density Range
ρ range (g/cm^3)
2.4 1.8 1.2 0.6 0.0
Swarm Stock Sulfide Gas Hydrate Brine Salt Sed.-base Serp.
(e)
Log-Resistivity Range
$\Delta\log_{10}$ (res)
4.8 4.0 3.2 2.4
Swarm Stock Sulfide Gas Hydrate Brine Salt Sed.-base Serp.
(f)
Magnetic Susceptibility
$\log_{10}$ (max|χ|)
−1.6 −2.4 −3.2 −4.0
Swarm Stock Sulfide Gas Hydrate Brine Salt Sed.-base Serp.
(g)