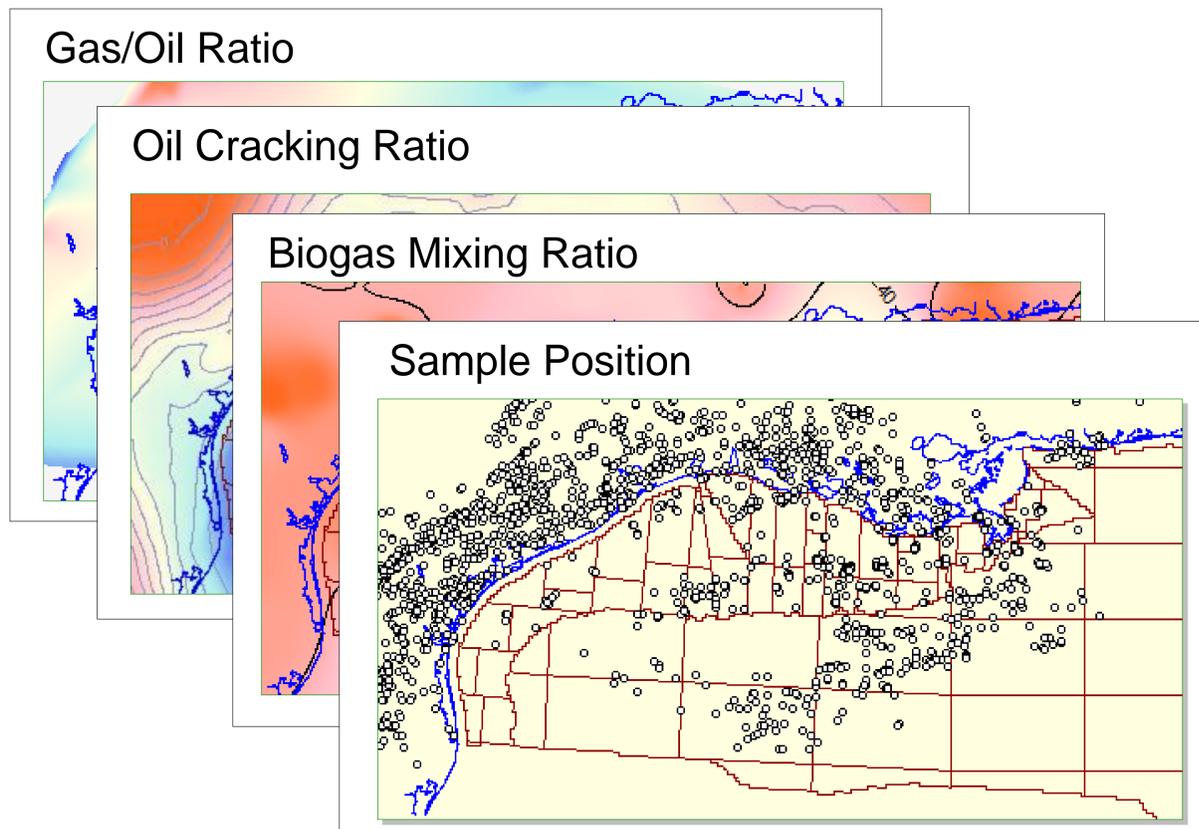


Oil & Gas Property Prediction of GOM

A Novel Procedure toward Complex Geology

- ❑ Accurate prediction of oil and gas potential
- ❑ Reservoir charging history
- ❑ Fluid property prediction



Quantitative de-mixing of gas in Gulf of Mexico

Region	Carbon Isotope Composition (per mil)			Source of Natural Gas		
	C ₁	C ₂	C ₃	Biogenic	Kerogen Thermo-genic	Oil Cracking
A	-64.2	-27.9	-15.5	55 %	5 %	40 %
B	-51.5	-32.5	-26.1	21 %	53 %	26 %
C	-38.0	-26.6	-20.9	15 %	76 %	9 %

