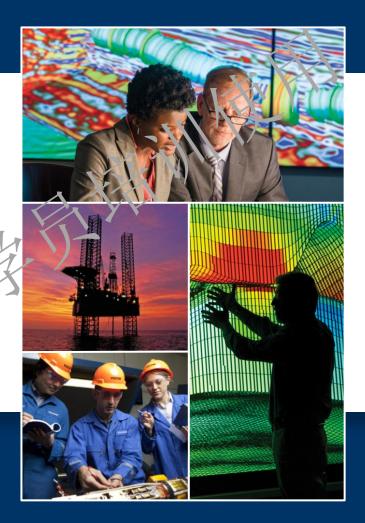


Petrel 2017 Property Modeling Module 15: Kriging in Petrophysical modeling



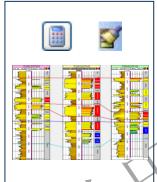
# Petrel 2017 Property modeling



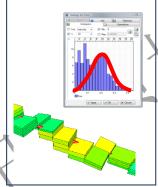
Petrel Property Modeling objective and workflow

Intro

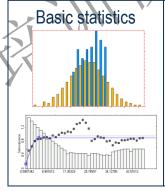
Property modeling data preparation

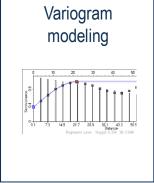


Scale up well logs

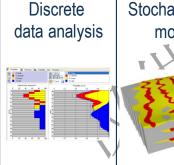


Univariate and bivariate geostatistics

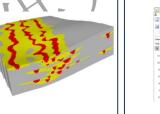




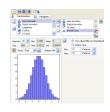
Facies modeling



Stochastic facies modeling

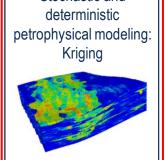


Continuous data analysis

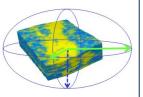


Petrophysical modeling

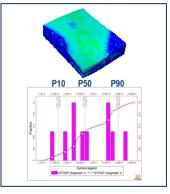
Stochastic and



Use of secondary information for property modeling



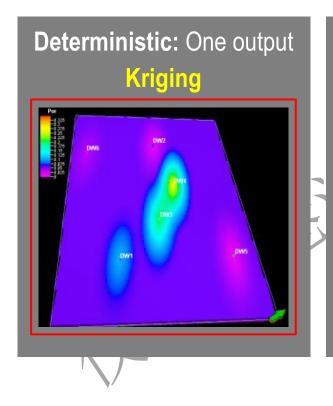
Volume calculation and Uncertainty analysis

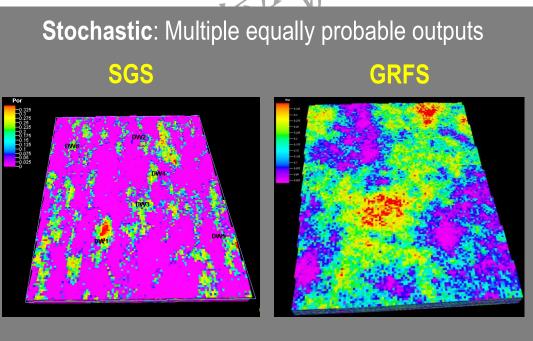




# Petrel modeling techniques for continuous properties

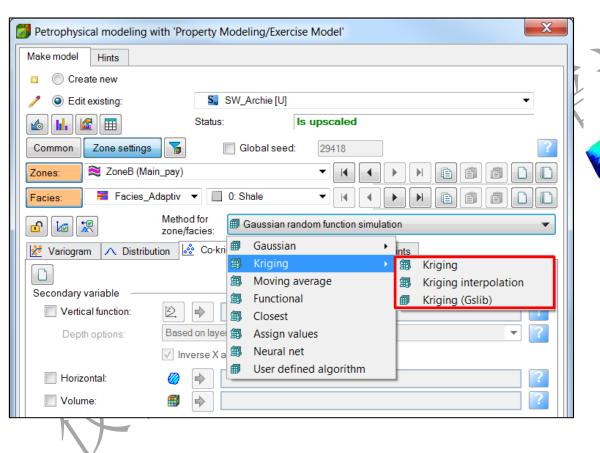
#### Methods used in this course:

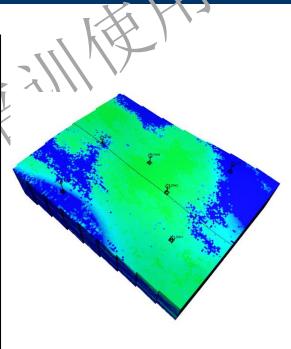






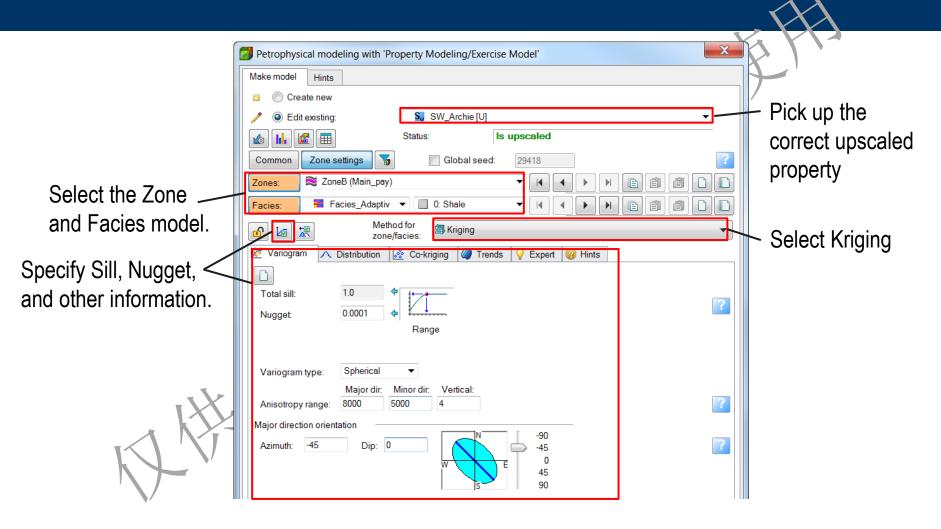
## When can you use Kriging?





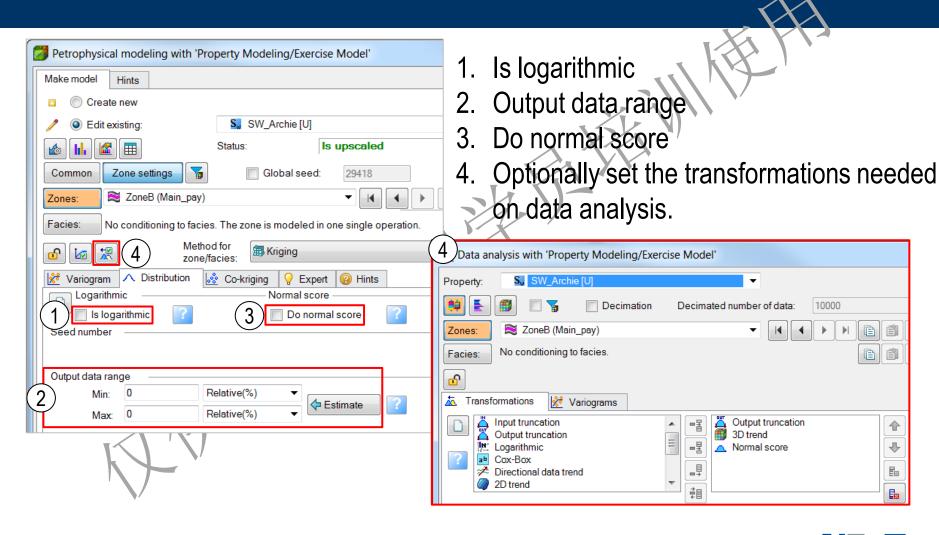


# Variogram settings



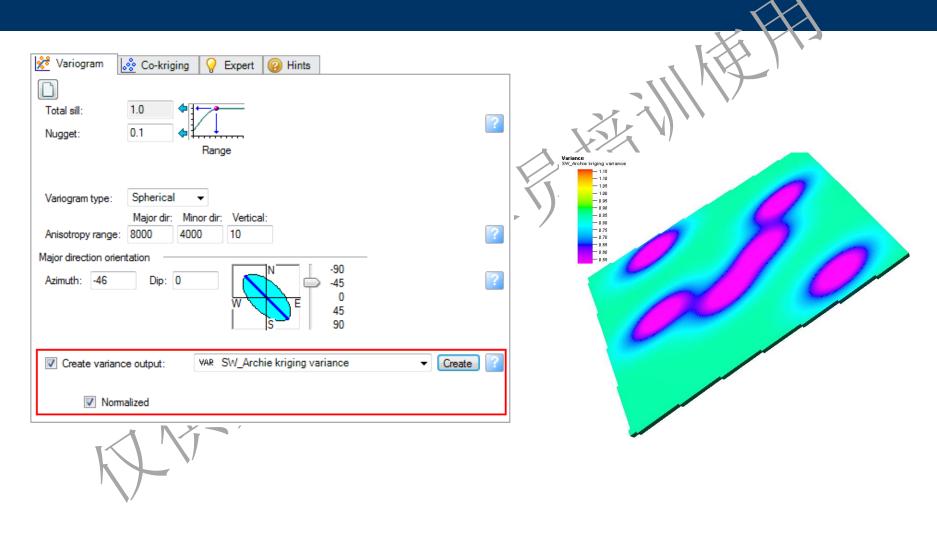


#### Distribution settings





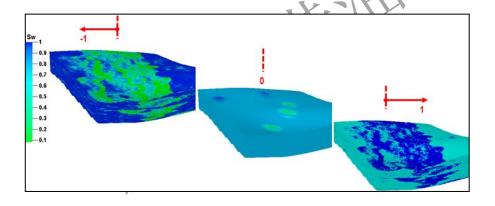
#### Variance

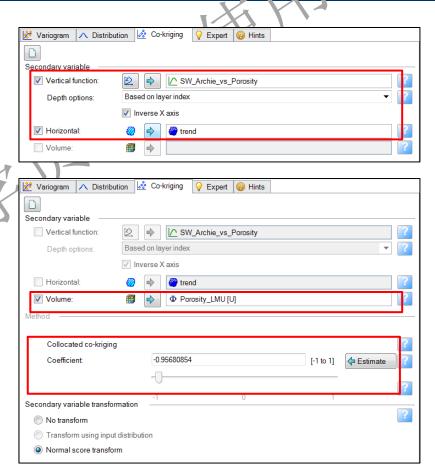




### Co-kriging and trend usage

- The Kriging method has a Co-kriging option that can use a secondary variable.
- To generate the linear correlation coefficient, click Estimate or the interactive slider bar.







#### Exercise

Model Sw using Kriging and secondary data

