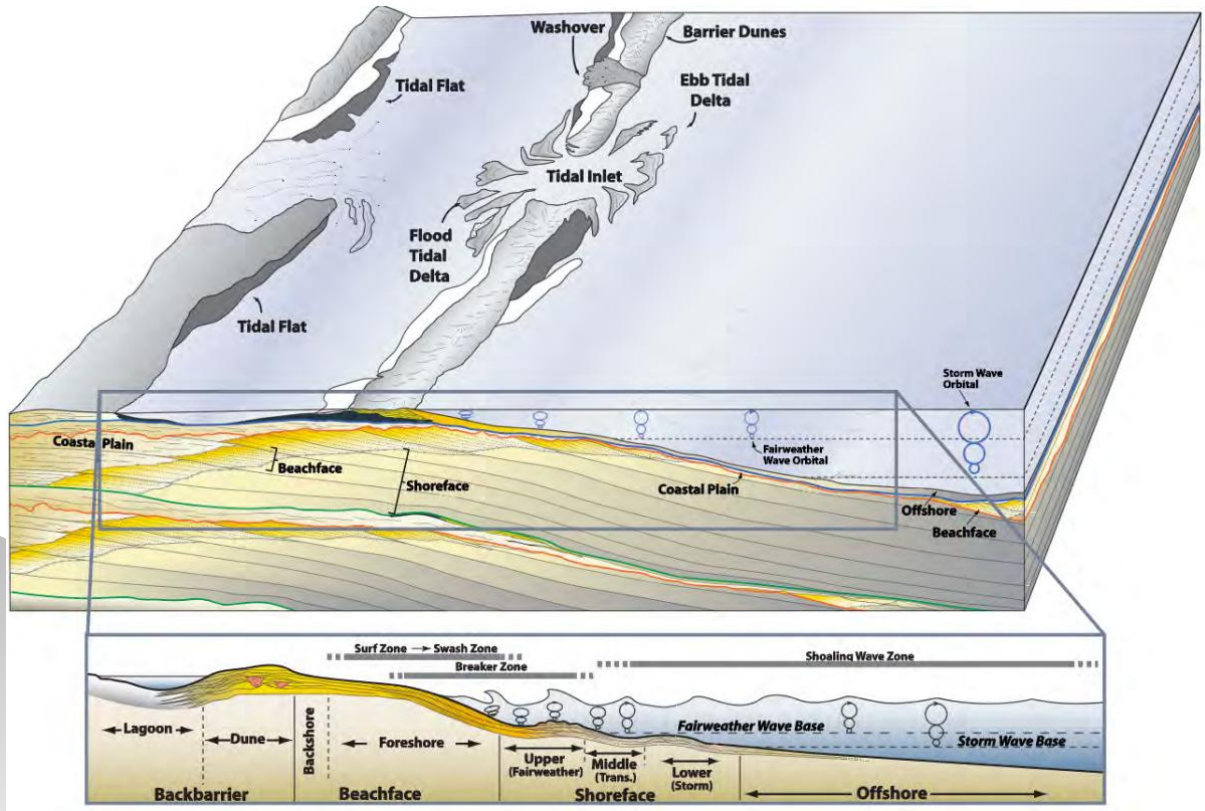
Expression of Clastic reservoirs in core, well logs and seismic data

Reservoir mapping at a production scale requires a thorough understanding of clastic depositional systems combined with the full integration of core, core-plugs, well logs, seismic and production data. This workshop focuses on common clastic reservoir facies in transitional, marine, and deep-water systems. This course explores fluvial-, wave- and tide-dominated deltas, incised valleys, deep-water channel systems and distributary channel-lobe systems (deep-water fans). Course discussions and materials include dimensional datasets of sand bodies across these environments and recognition criteria for interpreting these depositional environments in core, well logs and seismic. This class presents optimized workflows for reservoir mapping, including the deliverables at different business stages.



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COURSE CONTENT

- Classification schemes for clastic EoDs
- Common facies and stacking patterns in transitional, marine, and deep marine EoDs
- Sediment transport mechanisms associated with different depositional environments and impacts in reservoir rock properties
- Well-log patterns of classic depositional systems
- Typical seismic maps & cross-sectional views of sand-rich systems
- integrate core, core plugs, information from reservoir analyses to tie into well-log and seismic datasets
- Pre-drilling predictions based on EoD and seismic response
- Dimensional data for sand bodies in different EoD's
- Reservoir mapping workflows emphasizing data integration and main deliverables in different business stages.

LEARNING OUTCOMES

- Utilize core information for interpreting environments of deposition (EoD) in transitional, shallow marine, and deep-water realms
- Recognize the different EoD and sub-EoD in core, well logs, seismic, and outcrop
- Interpret and mapping techniques for core, well-logs and seismic lines in DW settings in both exploration and production scales
- Interpret EoD in different settings and map reservoir fairways
- Perform reservoir presence and risk and pre-drill prediction in different transitional, shallow marine, and deep-water settings
- Evaluate reservoir geometry and connectivity in different EoD's and sub-EoD's, integrating with production data