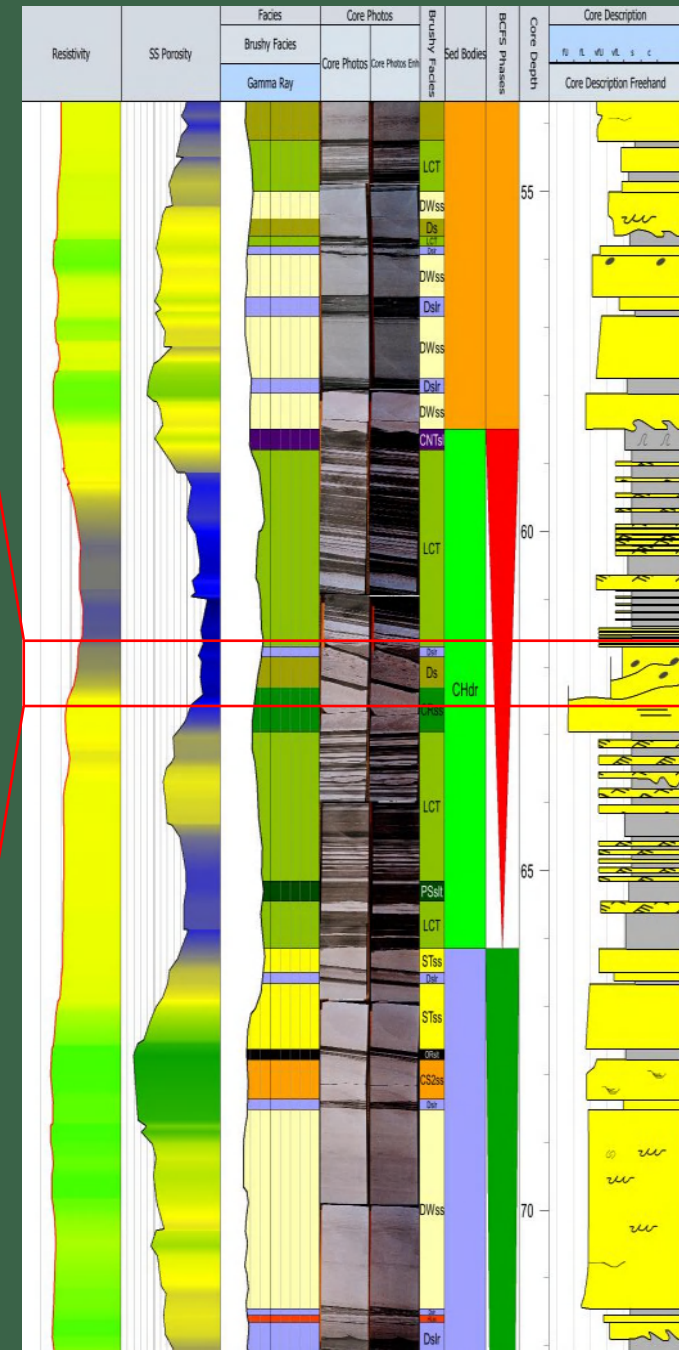


ESSENTIALS OF CORE DESCRIPTION

Application Driven Core Analysis
One Day EasyCore Workshop,
½ Day Deepwater Core Workshop
Jesse Melick, Chris Drej e, Zane Jobe
& EasyCopy/EasyCore



OBJECTIVES OF THIS COURSE



Emphasize value of analog data (core) in subsurface (digital) analysis



Learn digitizing workflows of a deepwater core in EasyCore



Generate from outputs EasyCore that improve calibrating digital data



Business case: Core integration drives more accurate assessment of reservoir/fluid properties

AGENDA DAY 1 (8HR DAY)

Introduce:

- Open Discussion: Participants share their discipline and reasons for enrolling in the course
- Open Whiteboard: Overview of core description applications and suitable output data types

Develop Classification Strategy

- Lecture: Hydraulic energy-based method for characterizing marine environments
- Guided Whiteboard: Establish Flow-unit boundaries; scale of sedimentary bodies; important attributes at each scale

Define input data, file structure, and **Build** EasyCore project

- Guided Exercise: Work with core photos, log data, and other attribute information
- Guided Exercise: Set up EasyCore layout including tracks, scales, order, and templates
- Guided Exercise: Import data into the project

Characterize Attributes

- Demo: Navigate EasyCore project interface, adjust palettes, modify symbols, facies, and classification columns
- Guided Exercise: Create grain size profiles, bed boundaries, symbols, and freehand features
- Guided Exercise: Classify facies, sedimentation units, sedimentary bodies, and stratigraphic energy trends

Generate **Output**

- Demo: Review and format templates and export data
- Guided Exercise: Export necessary data for application as discussed at course start



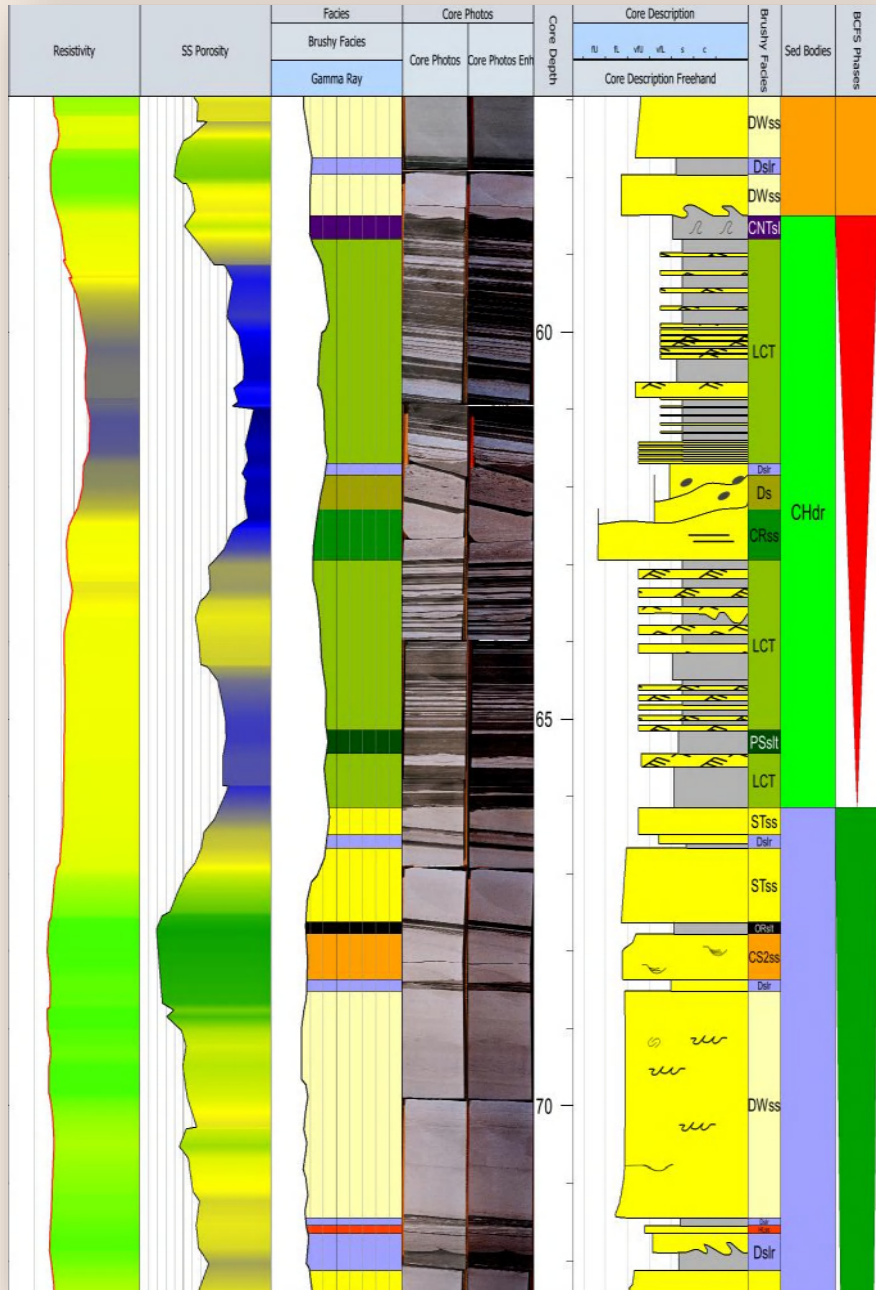
AGENDA DAY 2 (HALF DAY)

30 min: Overview of deepwater facies – conversation

2.5hrs: Participant core description time, with coaches available

30 min wrap up and discussion





COURSE WORKFLOW

Prepare Geologic Inputs

Define the why:
what data do you need?

Develop classification strategy

Assemble core/log data available for input

Define EasyCore layout

Load and attribute data

Characterize Key Attributes

Fine-scale: Profile and Facies

Medium/coarse-scales (lumping)

Stratigraphic energy trends

Generate Output

Grain size profile

Bed thickness trends

Facies

*Key features

PREPARE GEOLOGIC INPUTS

Think/Discuss: Define the application: *who is it for and what data do you need?*

Develop classification strategy - at least three key scales

Define file structure for project

Gather Data: Prepare core photos (name files based on top-bottom depths)

Digitize log data or generated computed curves (if needed)

Format pre-existing classifications for loading

Build Project: Define EasyCore layout: underlay, tracks and scale(s)

Load and attribute data (set ranges and color fill logs, color enhance photos, etc.)

Depth shift wireline logs to core logs

CHARACTERIZE KEY ATTRIBUTES

Fine-scale sedimentology:

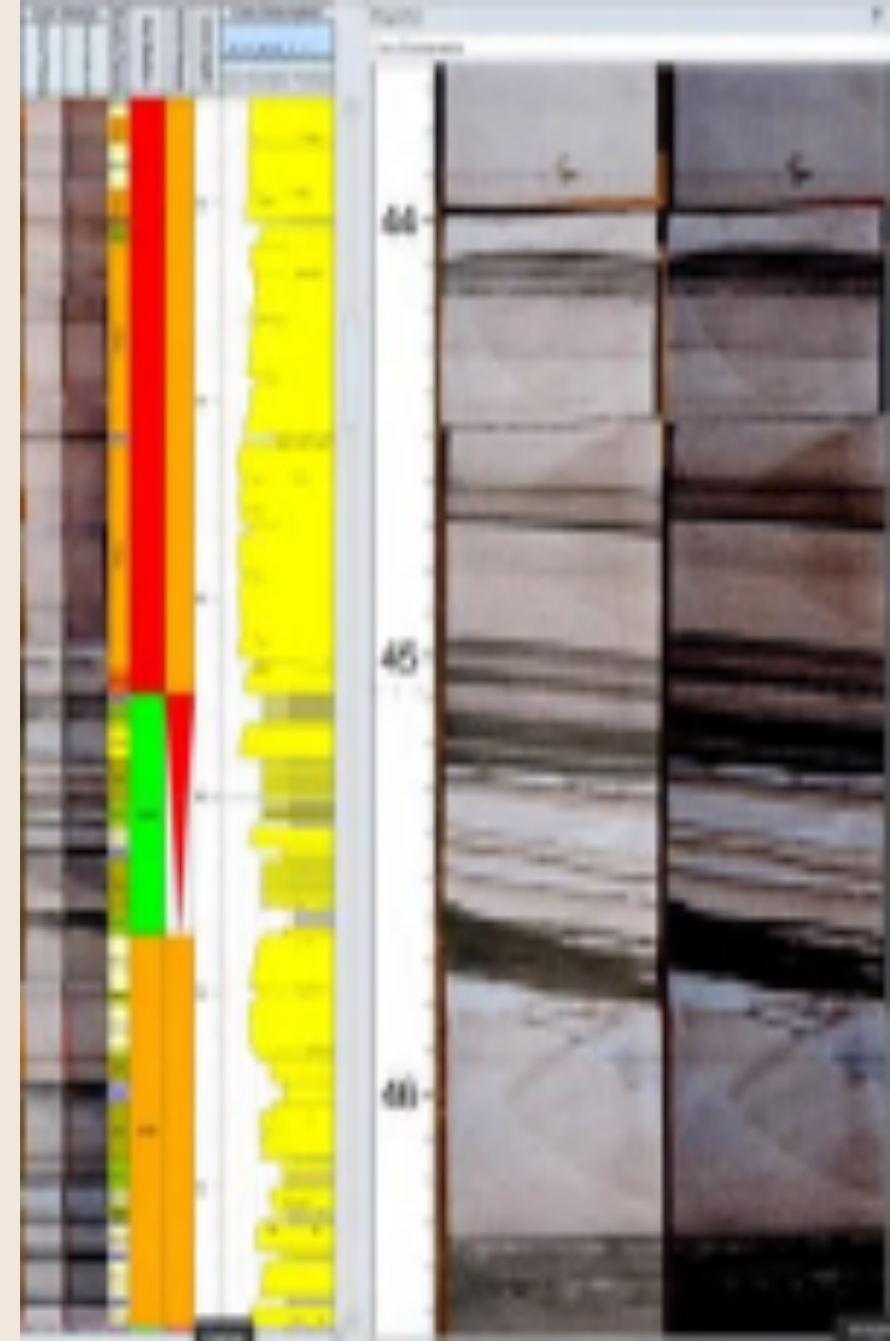
- Profile: Grain size, bed boundaries, symbols, etc.
- Facies

Medium/coarse-scales (lumping):

- Sedimentation Units (beds)
- Sedimentary Bodies

Stratigraphic energy trends:

- Increasing, decreasing and constant energy





GENERATE OUTPUT

- Templates
 - Symbols, facies, contacts, etc.
- Data
 - Grain size profile
 - Bed thickness trends
 - Facies
 - *Key features
- Format sample rate and data type
- QC and iterate if needed