

EFDC_Explorer7.1 - Level 2 Training Course Agenda

Coastal Modeling and Water Quality Modeling

October 24-25 2013 - Beijing, China

Note that this training course is Level 2 and assumes a basic understanding of the EFDC_DSI / EFDC_Explorer Modeling System. Those people who wish to participate that have never used EFDC_Explorer are encouraged to work through the online video tutorials and example models available on our website.

Coastal Modeling

Day 1 – Session 1	Coastal Modeling Principles, Harmonic Series Handling in EE and EFDC
Day 1 – Session 2	Hands On – Coastal Estuary Model
Lunch Break	
Day 1 – Session 3	Hands On – Coastal Estuary Model
Day 1 – Session 4	Hands On – Coastal Estuary Model

Water Quality Modeling

Day 2 – Session 1	EFDC Water Quality Theory Overview / EFDC_Explorer Water Quality Interface
Day 2 – Session 2	Overview of EFDC_DSI/EE7 WQ Transport Modeling Capabilities
Lunch Break	
Day 2 – Session 3	Hands On – 2D Lake – Adding Water Quality to Existing Example
Day 2 – Session 4	Hands On – 2D Lake – Water Quality Modeling, Analysis/Post Processing

EFDC_Explorer – Level 2 Training Course Objectives

Objective 1: Overview of EFDC_Explorer7.1 Coastal Modeling Capabilities

- Overview of Harmonic Boundary Series Settings in EE and EFDC
- Methods for Setting Harmonics in EE
- Example Model

Objective 2: Overview of EFDC_Explorer7.1 WQ Modeling Capabilities

- EFDC Data Structure, Initial Conditions, Boundary Conditions
- EE7.1 User Interface for Water Quality Modeling
- Overview of Kinetic Options
- Initial conditions & boundary conditions for WQ
- Benthic Flux and Algae Options
- Applying and calculating Secchi Depths

Objective 2: Overview of EFDC_Explorer7.1 Calibration Tools

- Use EFDC_Explorer for pre- & post – processing
- Capabilities of EFDC_DSI & EFDC_Explorer for Calibration
- Model calibration & validation

Objective 3: Hands on Modeling Practice

- Hands on with EFDC_Explorer and EFDC_DSI
- Creating a model
- Providing solutions to user problems

For more information please contact us at: ee_training@ds-intl.biz