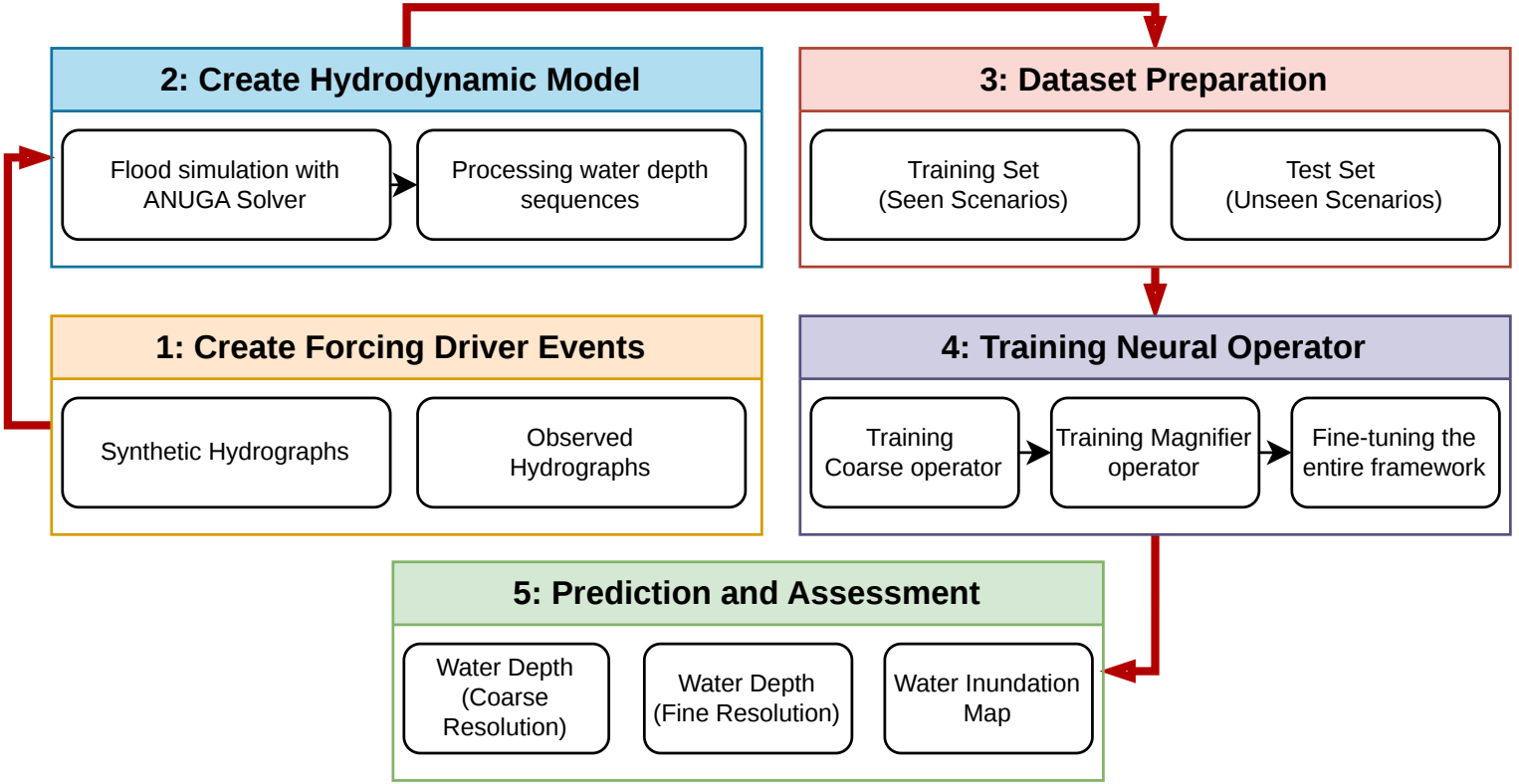
2: Create Hydrodynamic Model
Flood simulation with ANUGA Solver
Processing water depth sequences
3: Dataset Preparation
Training Set (Seen Scenarios)
Test Set (Unseen Scenarios)
1: Create Forcing Driver Events
Synthetic Hydrographs
Observed Hydrographs
4: Training Neural Operator
Training Coarse operator
Training Magnifier operator
Fine-tuning the entire framework
5: Prediction and Assessment
Water Depth (Coarse Resolution)
Water Depth (Fine Resolution)
Water Inundation Map