Agenda:

Activity/Method	Content Description	Support Materials	Estimated Time
Introductions and Log-On Procedures	Introduce speakers and their backgrounds. Ensure everyone is set up on Slack and has access to the necessary resources.	Slack Channel access, accounts set up, setup guide	15 min
Session 1: Preparing training data	Ensure users can create datasets that are used for training models and initializing inference. Discuss the importance of data preparation.	Required code, step-by-step guide.	45 min
Session 2: Training SI Models	Walk participants through the process of training the NOAA SI deterministic model (EAGLE). Demonstrate how to set up training pipelines and utilize resources effectively.	Jupyter notebooks and/or code, training datasets, step-by-step guide.	45 min
Break	N/A	N/A	15 min
Session 3: Performing Inference with SI Model	Guide users through running inference on a trained NOAA SI model (EAGLE) Discuss best practices for deploying models for predictions.	Pre-built inference notebooks/code, sample input datasets.	45 min
Session 4: Verifying and Evaluating SI Models	Teach participants how to verify and evaluate the performance of SI models. Cover model benchmarking, accuracy assessment, and result visualization using verification frameworks.	Verification tools, Jupyter notebooks for evaluation, and example benchmarks.	45 min
Course wrap-up	Recap the four main components (data, training, inference, and verification). Solicit feedback, address any remaining questions, and provide resources for continued learning.	Review of key concepts, GitHub repository link for materials, and working code.	15 min