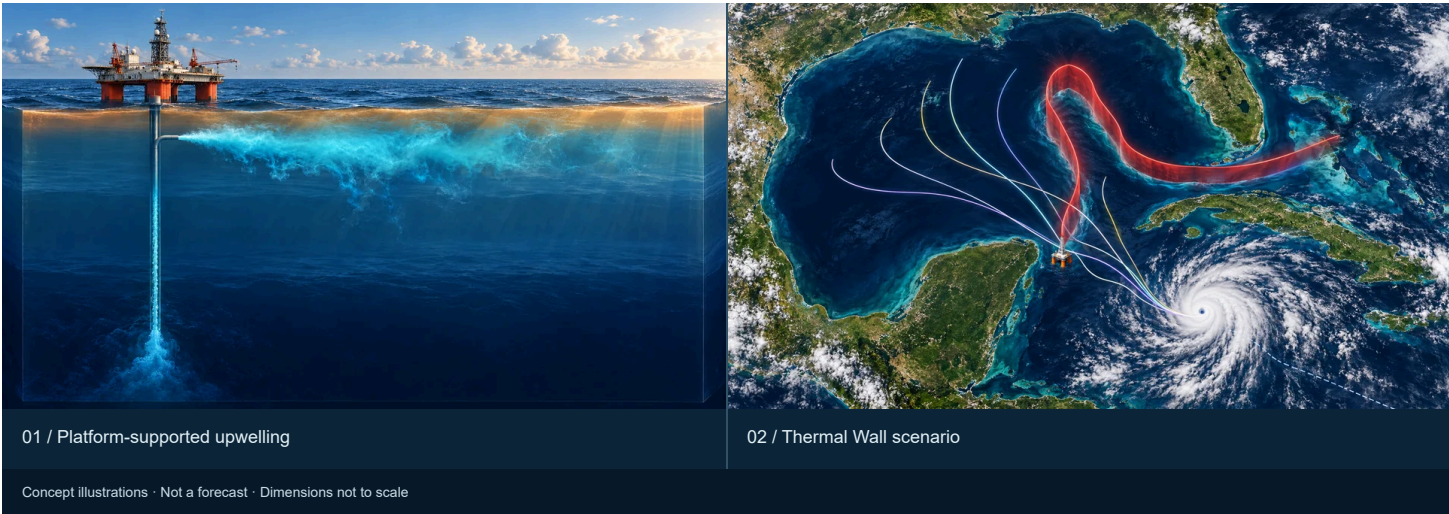


GULF COAST CLIMATE PLATFORM

Research & modeling

GCCP

*The Thermal Wall.
A cooler ocean corridor.*



GCCP explores lifting colder water from about 400 m to injection near 50 m, targeting 1.5°C of surface-layer cooling. Its Thermal Wall concept studies the potential ocean–atmosphere response.

THE RESEARCH PATHWAY

01	02	03	04
Observe	Model	Assess	Validate
Establish a reference environment from ocean observations.	Study mixing, transport, stratification, and coupled responses.	Quantify physical limits, energy needs, and environmental effects.	Define measurements and objectives for a possible bounded field study.

THE APPROACH

Follow a modeling-led research pathway. Compare scenarios against a documented baseline, make uncertainty explicit, and connect findings to engineering and environmental feasibility.

START THE CONVERSATION

Develop a focused collaboration around baseline observations, model design, engineering limits, and measurable validation objectives.

DEVELOPMENT CONTEXT

Concept illustrations only. Rig and wall dimensions are exaggerated; the hurricane and tracks are fictional. The 1.5°C cooling is a research target. Cooling persistence, environmental effects, and any hurricane-intensity benefit require validation.