

Air-Sea Transition Zone

Purpose/Objectives

- (1) **Introduce** the one-year study team on future capabilities of observing the air-sea transition zone.
- (2) **Identify gaps** (observation, modeling, data assimilation, process studies, interdisciplinary work, etc.) in the current study of air-sea interaction that limit predictability and identify opportunities to resolve these gaps.
- (3) **Explore interactions** between the US CLIVAR panels and the one-year study team.

Topics

- US CLIVAR 1-year air-sea transition zone study team: motivation, context, and charge
- Future research programs and projects: short-term and long-term
- Holistic and systems approaches to air-sea interaction studies

Talk Titles (and length)

- Carol Anne Clayson “Update on the Air-Sea Transition Study Team”
- Sarah Gille “Air-Sea-Ice and Wind-Current Interactions: Strategies for the Future”
- Billy Kessler “TPOS Equatorial Process Studies”



Air-Sea Transition Zone Discussion

Plenary Discussion Questions

- What are the key gaps in our understanding of the air-sea transition layer that limit Earth System Predictability from seasonal to decadal time scales? How do we bridge these gaps?
- What other near-term major programs/projects are relevant to advancing air-sea interaction studies? Which of these programs/projects are employing a Holistic/Systems Approach?
- What steps can be taken by US CLIVAR to best leverage the study team activities to advance our priorities?



Air-Sea Transition Zone Discussion

Panel Breakout Discussion Questions

- How can your panel leverage the activities of the one-year study team to advance panel goals? (Identify at least one action item).
- Do you have a suggestion for the one-year air-sea transition zone study team?

Expected Outcomes:

- Identify an action item(s) on how each panel can leverage/assist study team activities to advance panel goals.
- Provide a specific recommendation for the study team.

