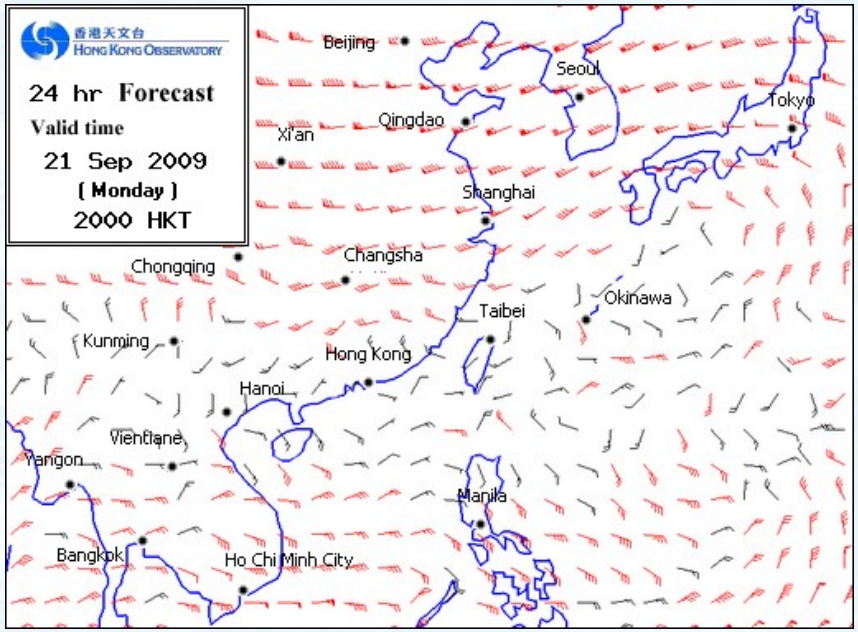
Beauty in the Complexity of Sailing

A quick skim through of the vast complexity of a sport that relies on the mysterious powers of the natural world.

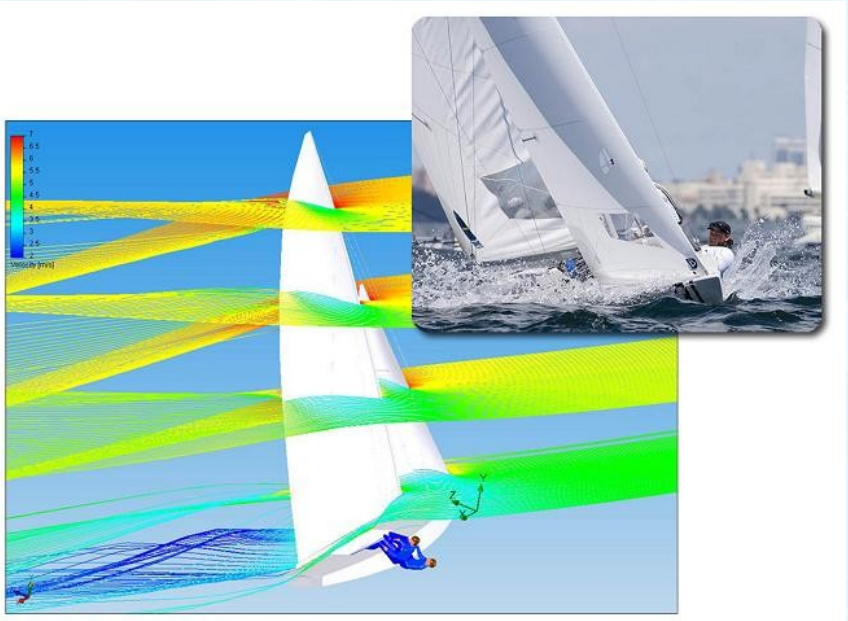
By: Aaron Robinson

Wind Power



- Water bodies and flat land provide low friction for high-speed winds
- Wooded areas and rocky formation slow winds and channel their directions

Fluid Dynamics



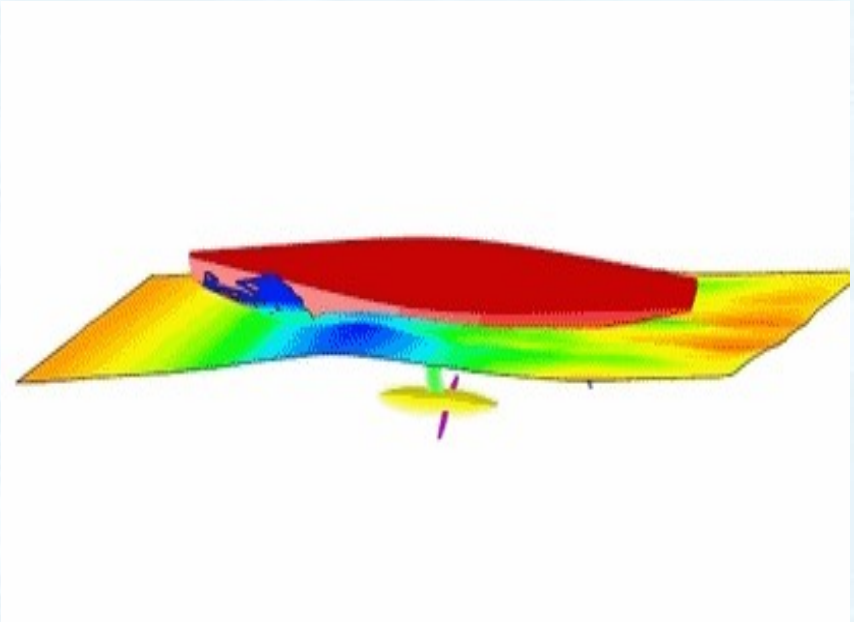
- Winds modeled as fluid
- Sails act as airfoils
- Multiple sails are arranged to harness power
- Jib, Spinnaker, Gennaker, Genoa, etc.
- Pushed vs Pulled

Sails


SOLENT
PALOMER CAPITAL
JPMorgan
Bear of Britain

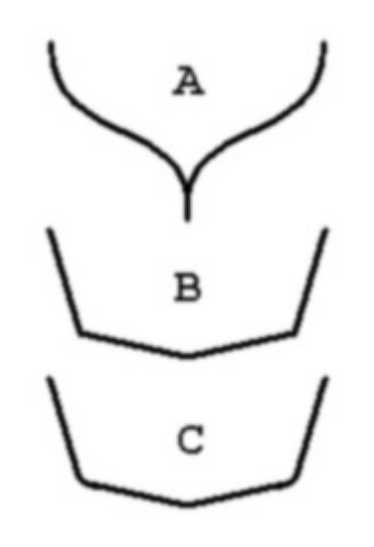

MUSTO
PERFORMANCE

Fluid Dynamics Cont.



- Water modeled as fluid
- Hulls, Keels, and other structures used to create low friction flow while supporting sails
- Objective is to always Balance Forces between the sails and the structure

Hulls



The Race

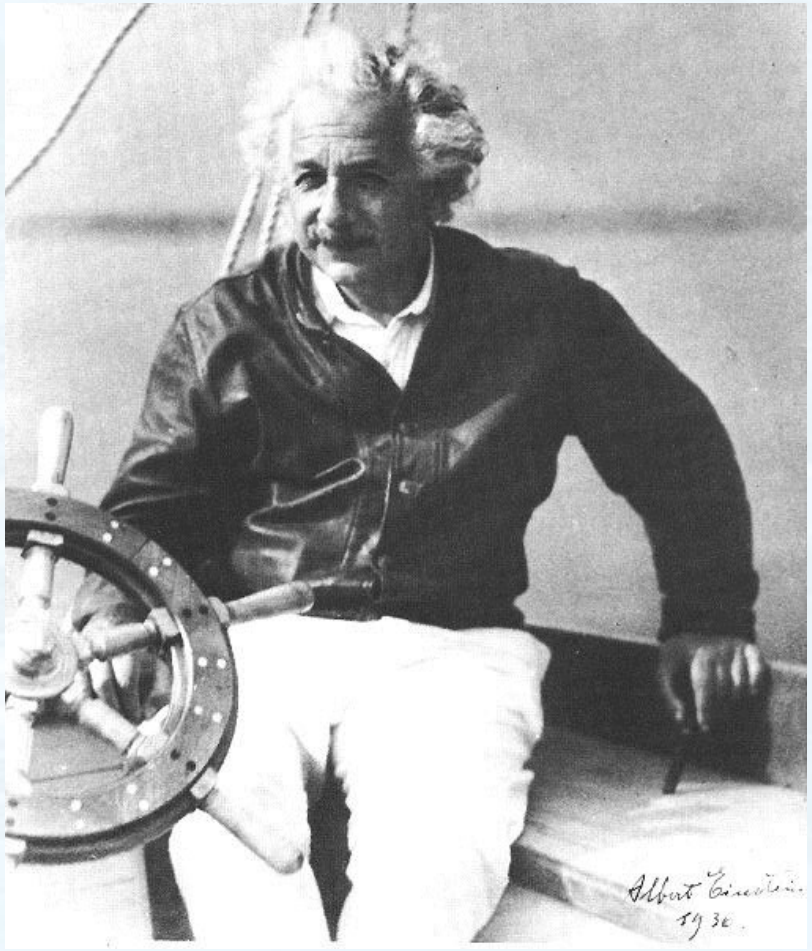
- Round-the-world sailing event with no-rules/no-limits
- Ally technology and the environment
- Unite maritime cultures while promoting creativity

Team PlayStation

- Withdrew from “The Race” on Day 16
- Round the world record of 58 d. 9 h. 32 m. and 45 s.
- Launched with 105 ft length but lengthened to 125 ft to avoid pitch pole.

A Pitch Pole

Einstein and Sailing



- A sense of wonder for the beauty and complexity in the natural world.