

## 1 | What's up with the weather today?

- Land heats up quickly, water does not heat up as quickly due to specific heat capacity difference
- Results in big land-to-ocean differential
- Water vapor gets trapped on land because of temperature differential
- Smoke is trapped above marine layer
- Sadness!
- Normal force to lift smoke away is to lift wind up
- Given that the wind is absent, gravity pulls cloud layer down
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