

A satellite image of Hurricane Irma, showing a well-defined eye and a dense, swirling cloud structure. The hurricane is positioned over the Caribbean Sea, with the Florida peninsula visible in the lower-left corner. The surrounding ocean is dark blue, and the landmasses are green.

The wonderful wizard of wind

Greater
Everglades
Ecosystem
Restoration
Conference

2019

Evelyn Gaiser
Florida Coastal
Everglades Long
Term Ecological
Research
Program

FIU

Institute of Water
and Environment

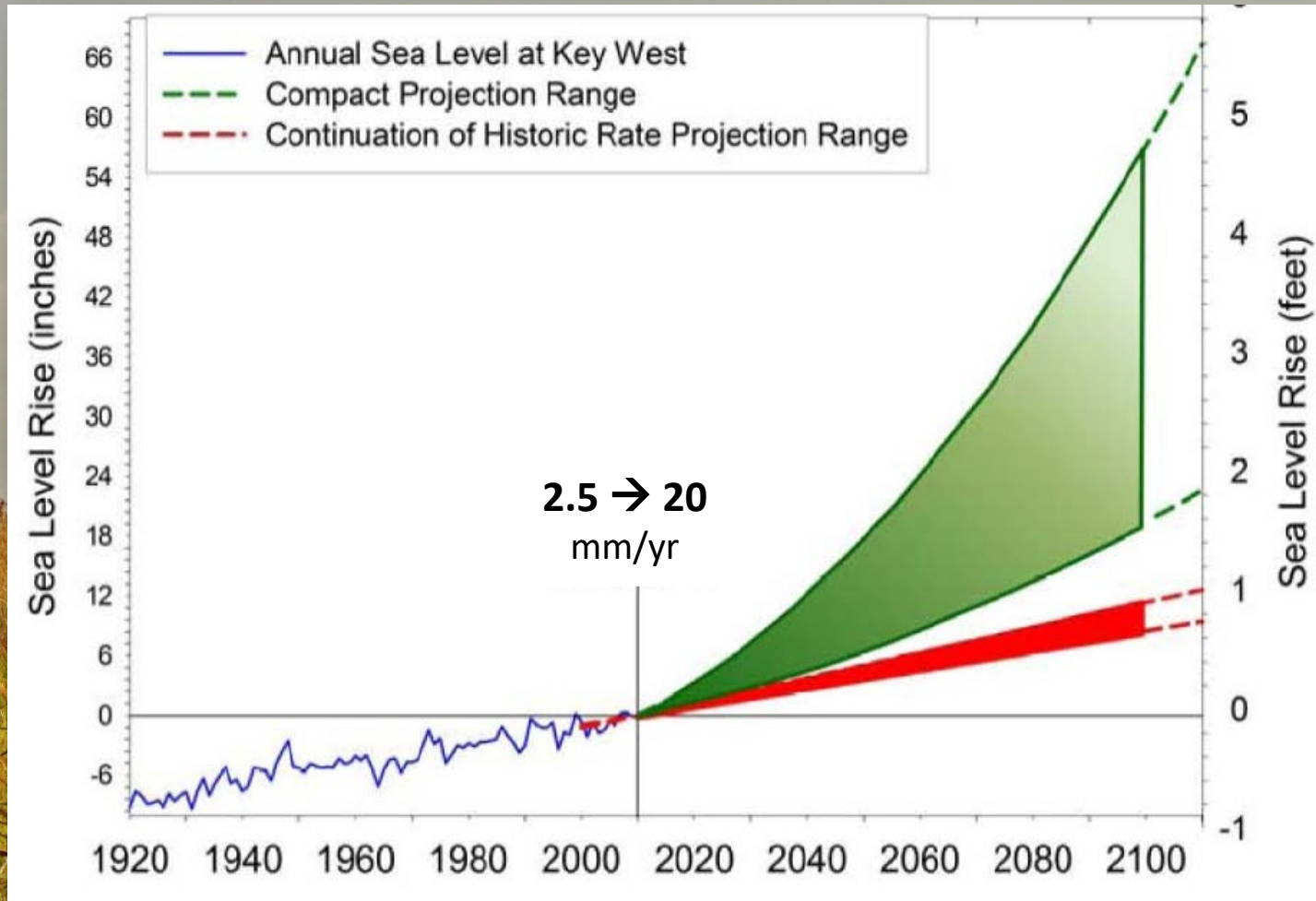
HURRICANE IRMA CROSSES FLORIDA ON
10 SEPTEMBER 2017



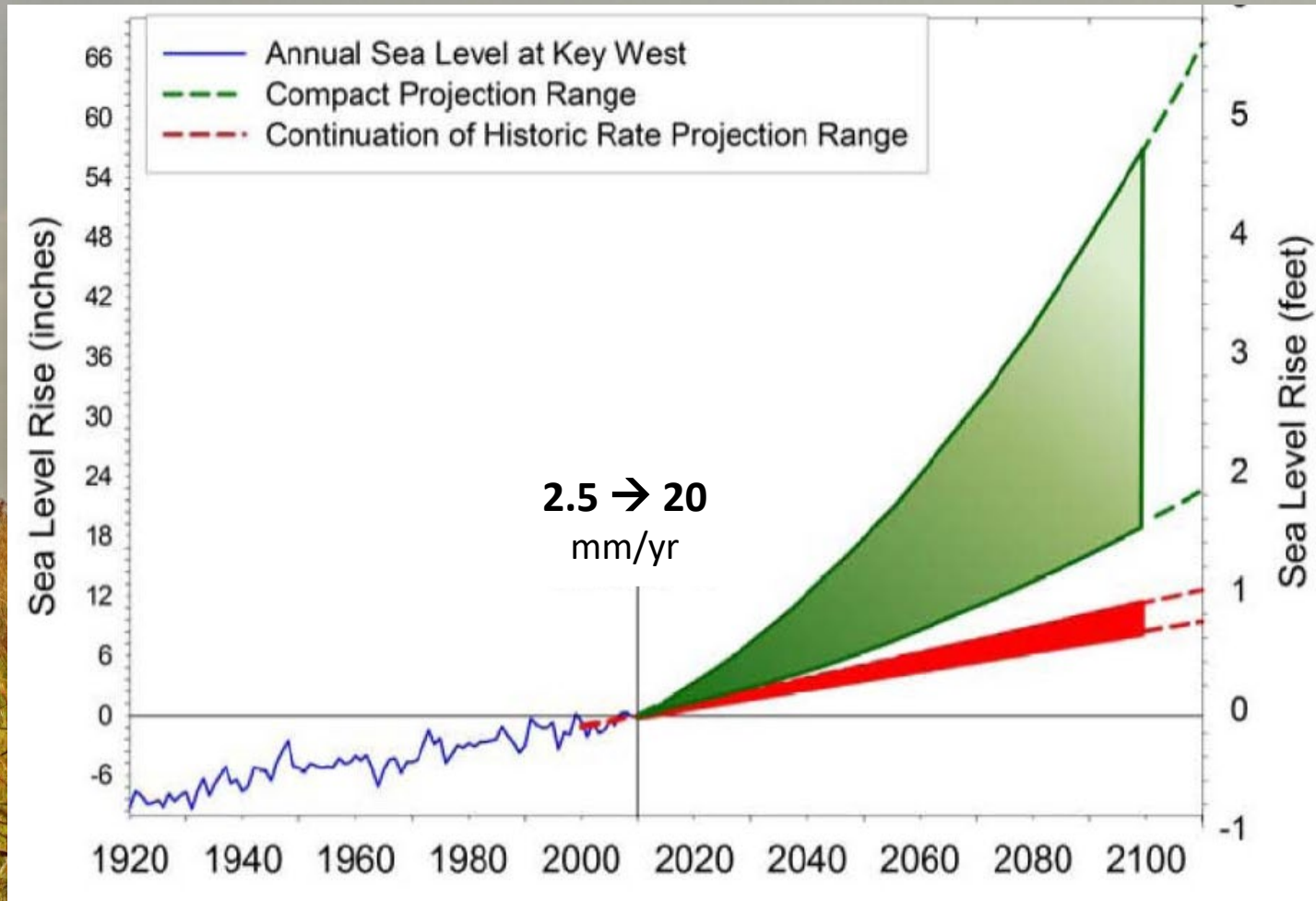




Unified Sea Level Rise “2060 and Beyond” Projection



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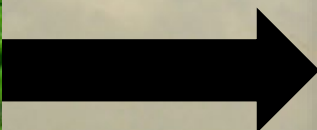


Freshwater Diversion



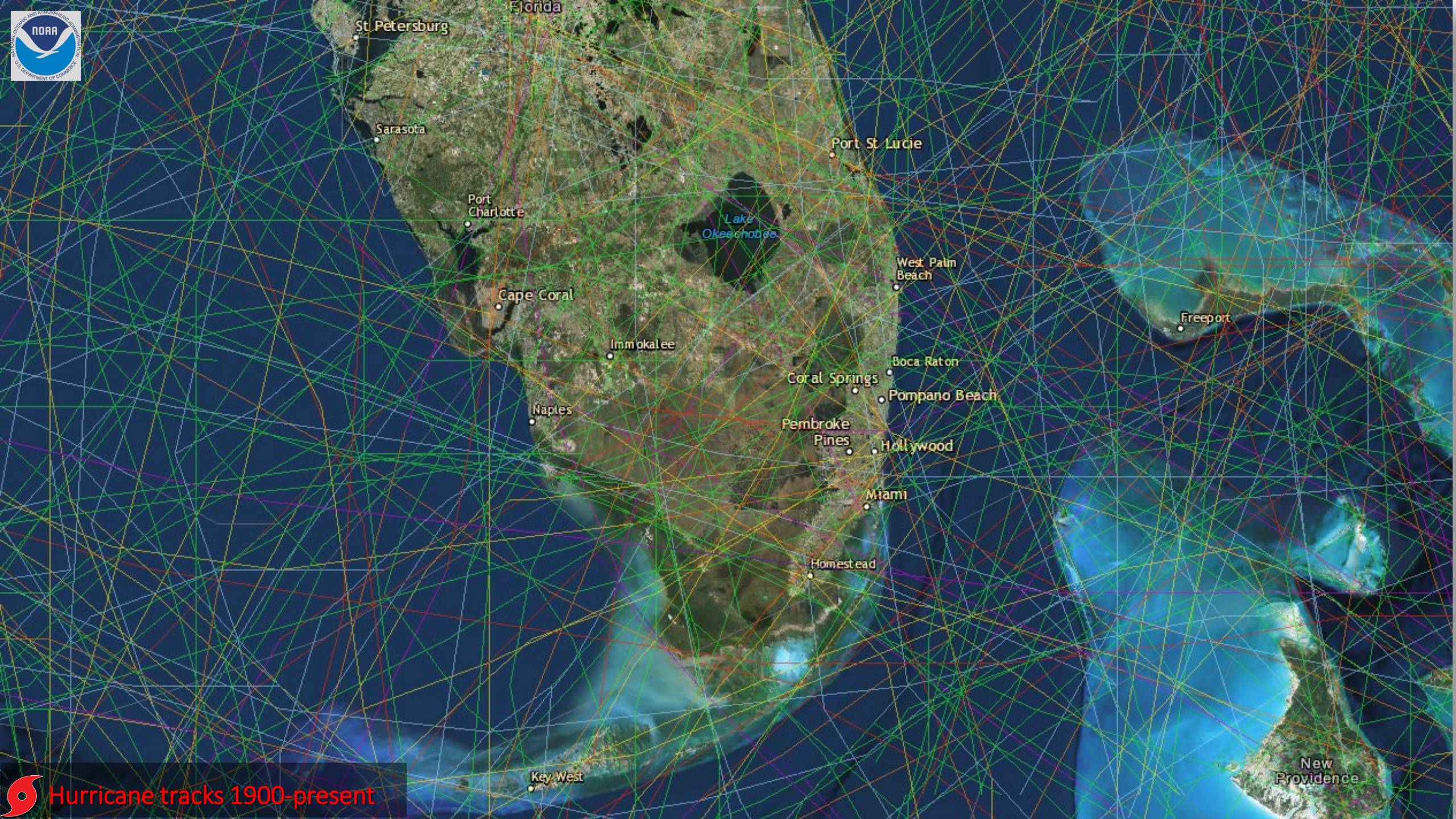


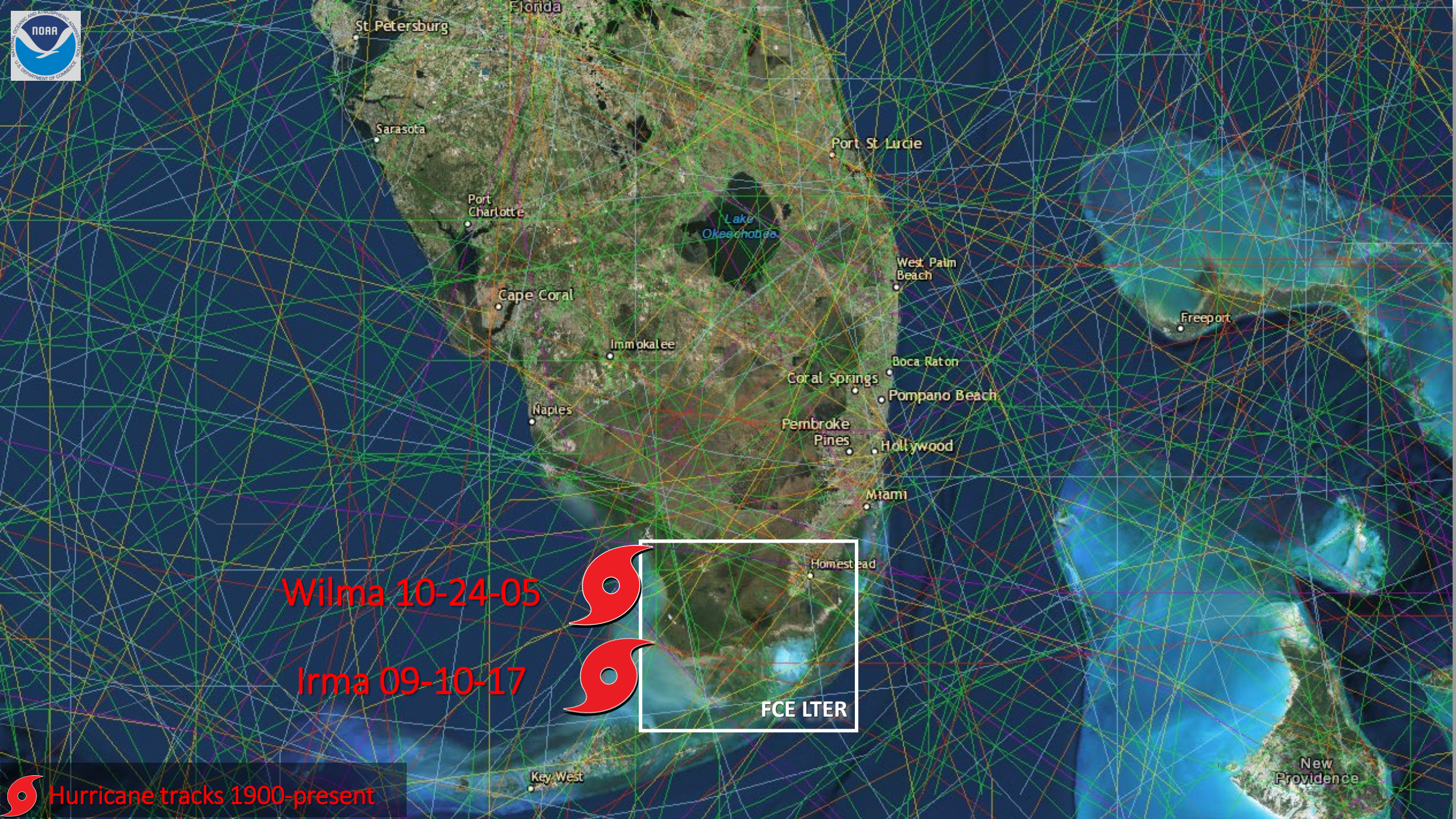
Saltwater Intrusion



Saltwater Intrusion

Marsh Collapse

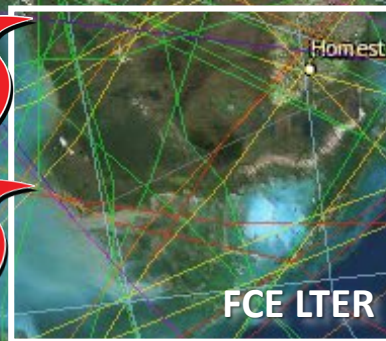




Wilma 10-24-05



Irma 09-10-17

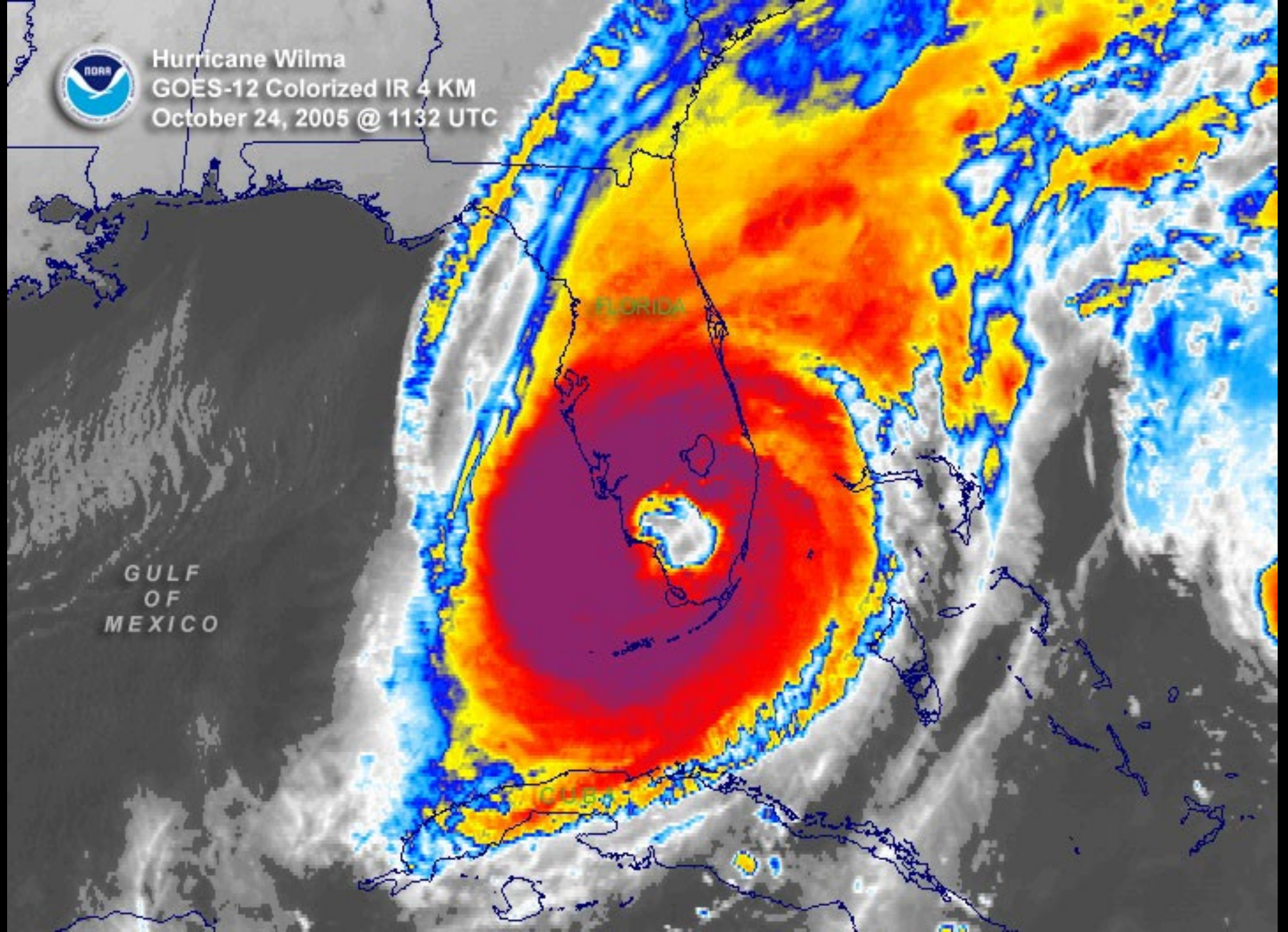


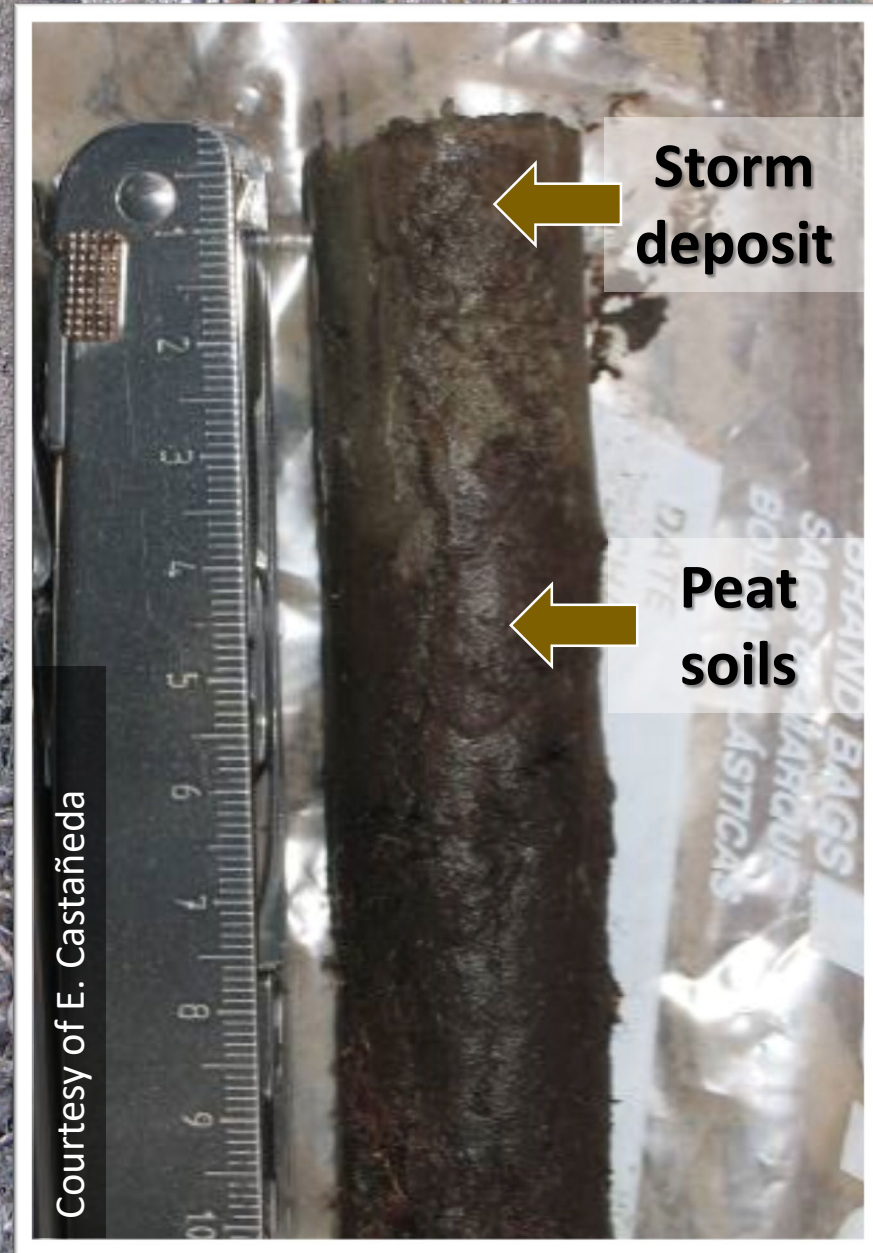
Hurricane tracks 1900-present

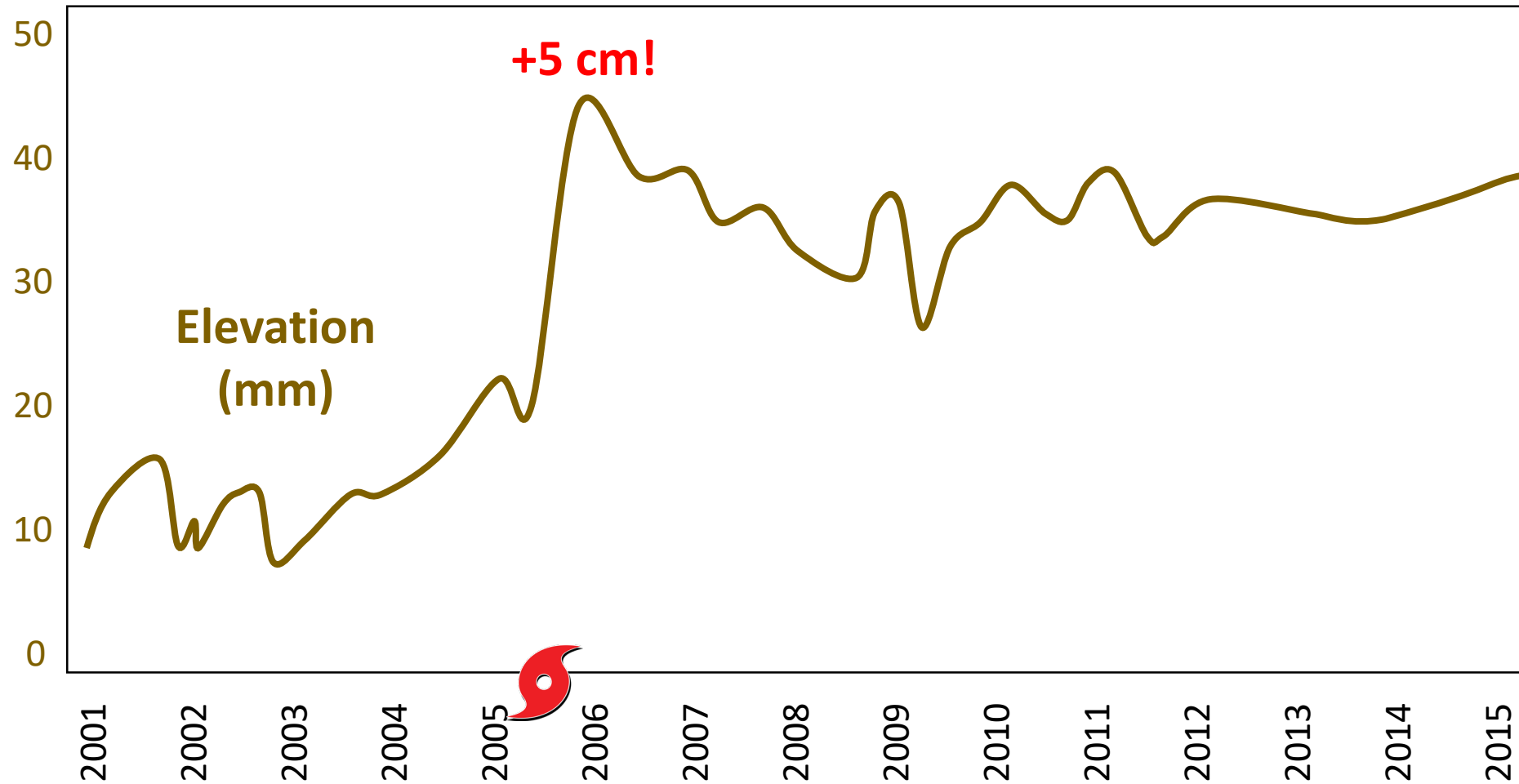
 Wilma

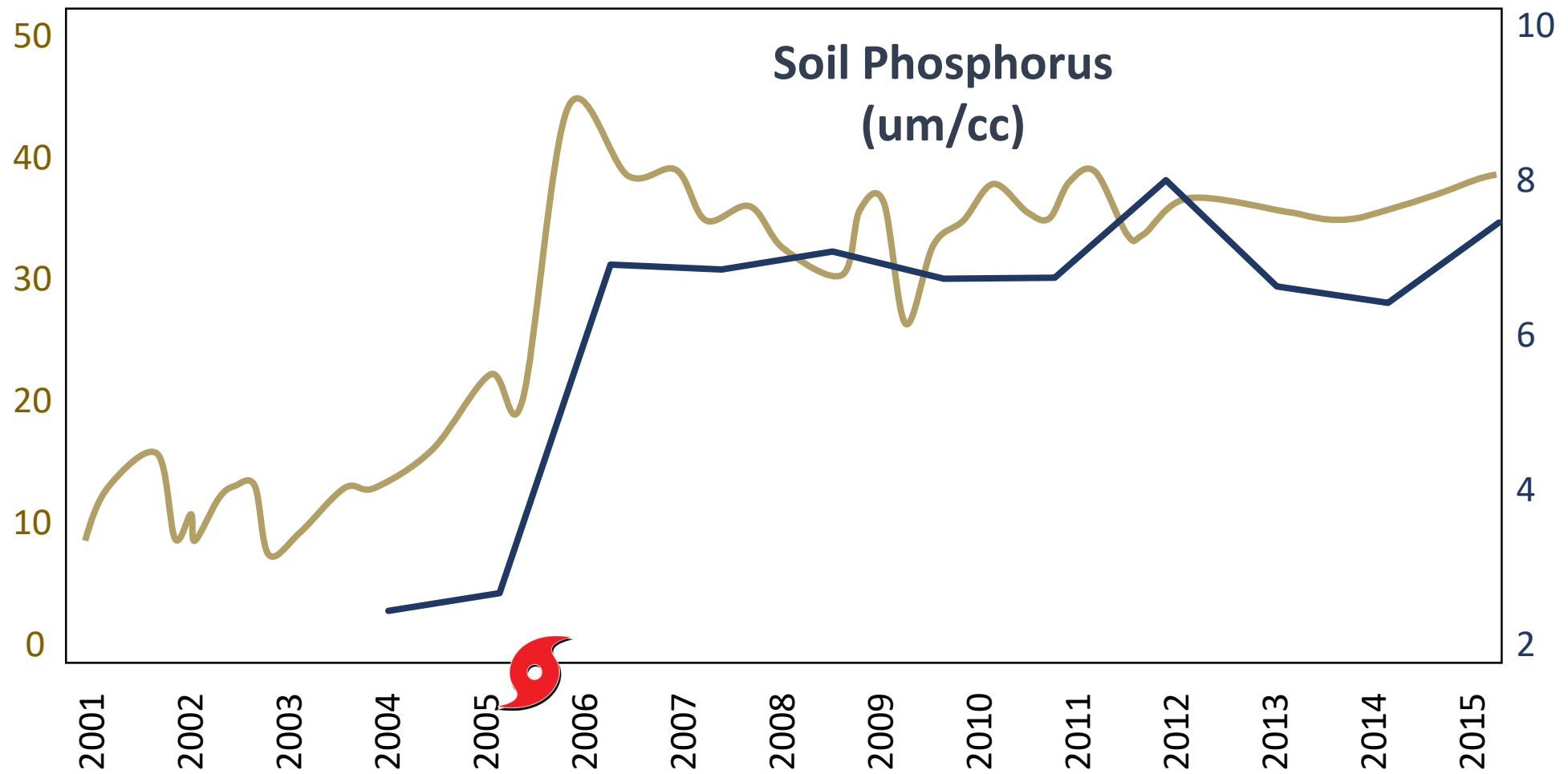


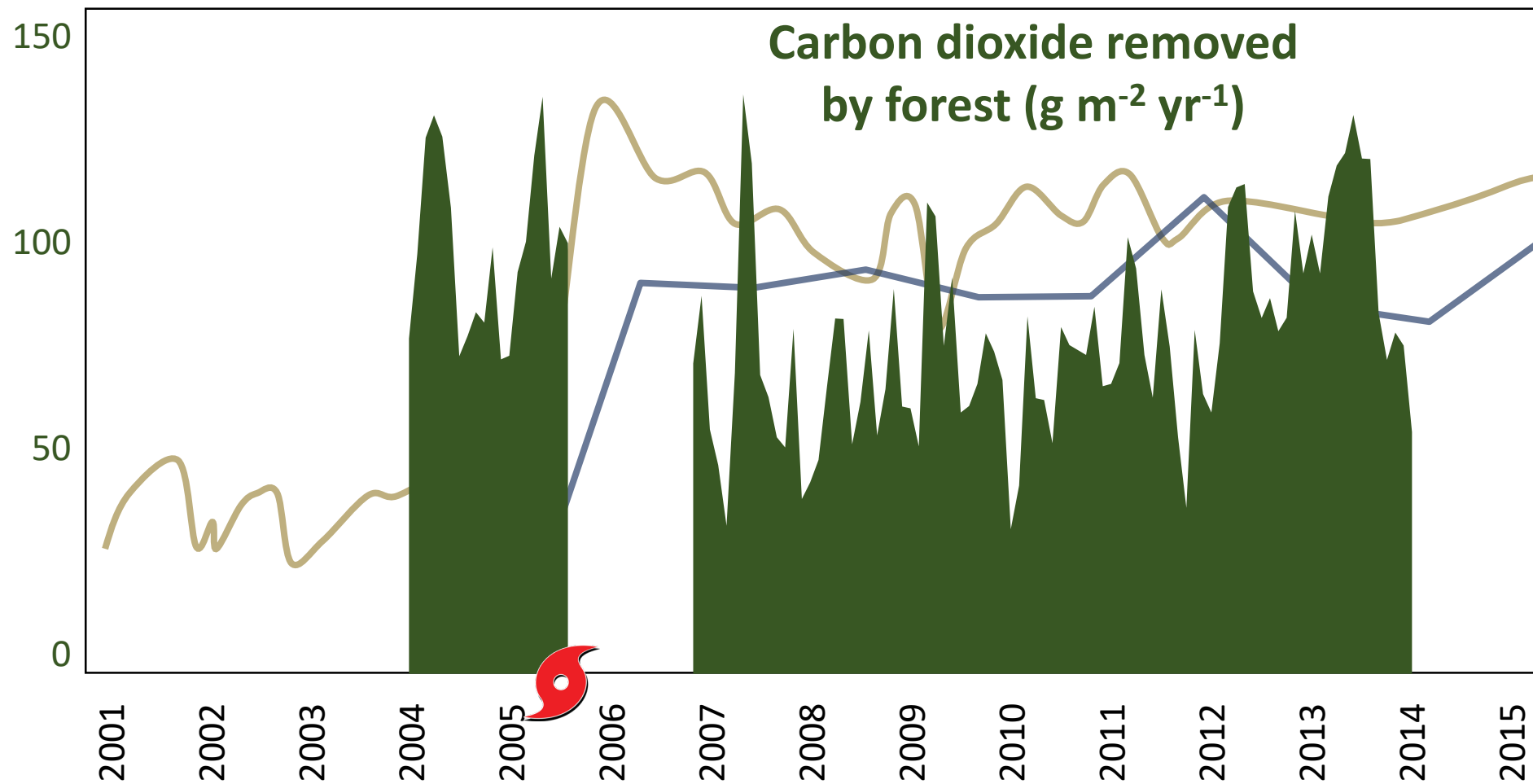
Hurricane Wilma
GOES-12 Colorized IR 4 KM
October 24, 2005 @ 1132 UTC













Wind-generated
canopy gaps



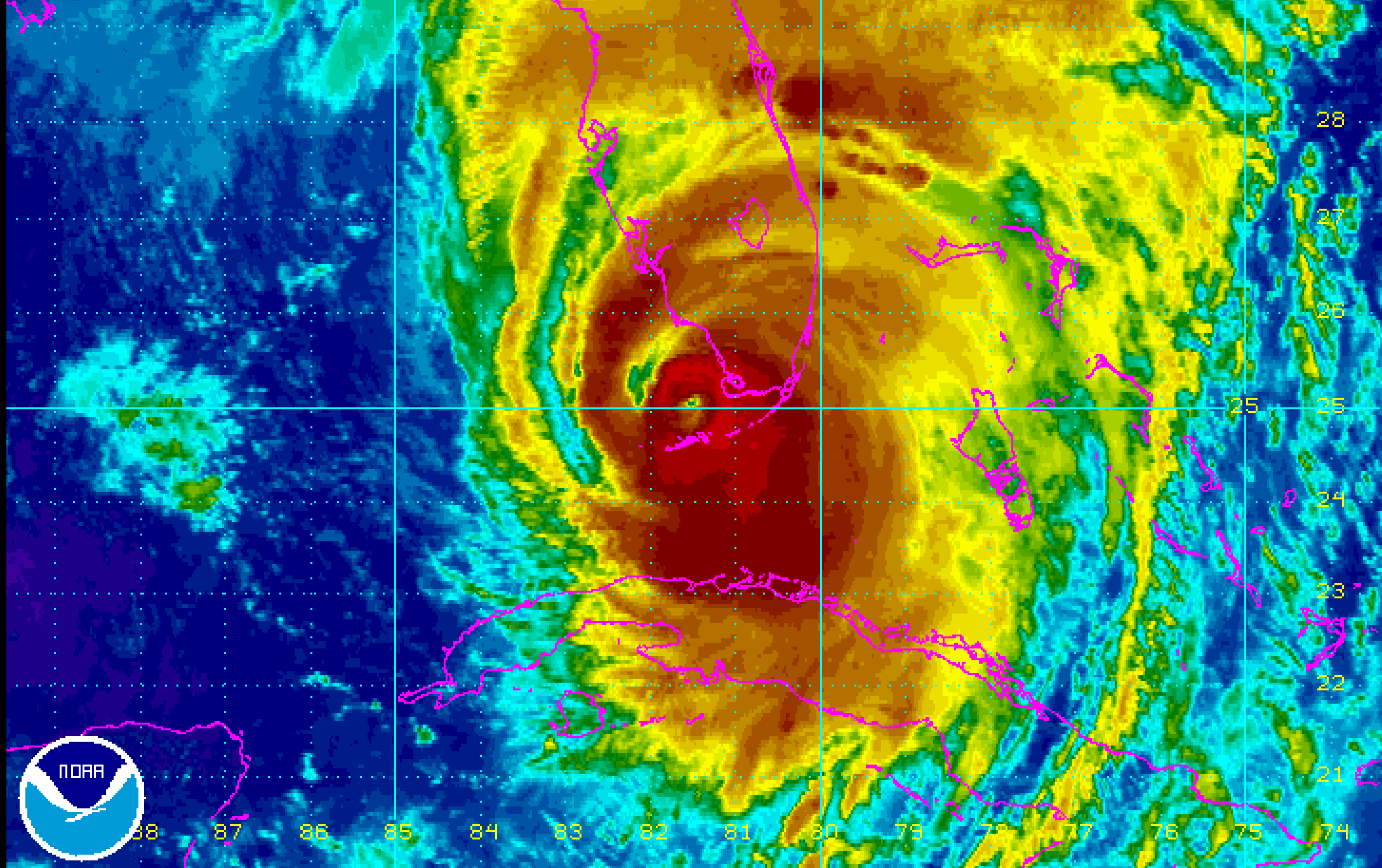
Inland
migration of
mangroves
and peat soils



Regeneration in
P-rich mud



Saltwater Intrusion





5-10
cm
+P



Highest dissolved carbon
concentrations ever recorded



From here?

Marsh Collapse

Ding Dong the Witch is Dead!

