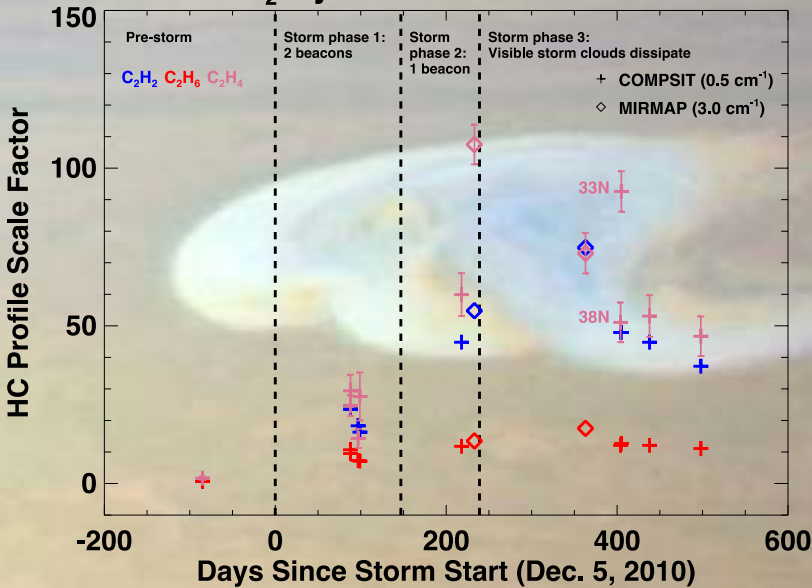
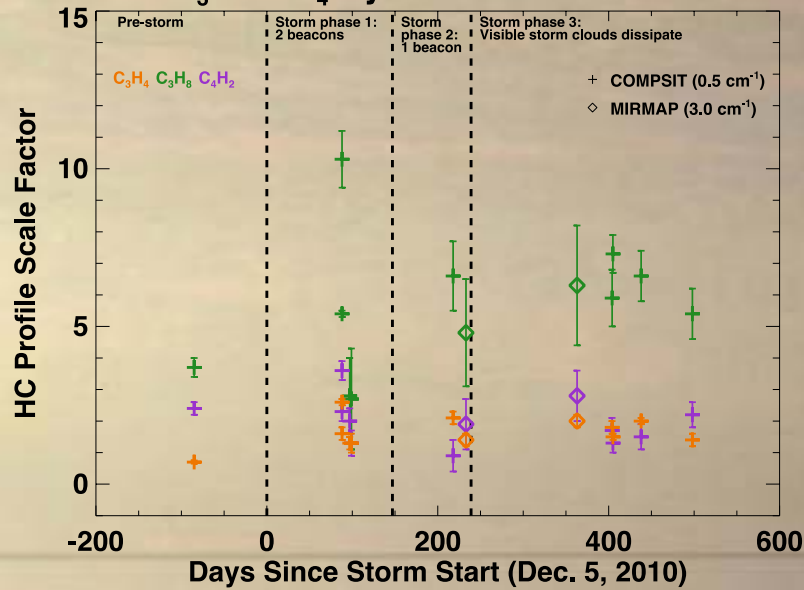


THE EVOLUTION OF HYDROCARBON COMPOUNDS IN SATURN'S STRATOSPHERE DURING THE 2010 NORTHERN STORM

C₂ Hydrocarbon Results



C₃ and C₄ Hydrocarbon Results



- C₂ hydrocarbon abundances are significantly enhanced in Saturn's beacons compared with pre-storm values.
- C₂H₄ exhibits the greatest enhancement followed by C₂H₂.
- For the Jan 2012 dataset, there is latitudinal structure within the beacon, with larger abundances for C₂H₄ at 33°N than at 38°N
- C₃ and C₄ hydrocarbons exhibit little or no enhancement in Saturn's beacons.